

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P271280

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-T4W-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5696.5 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

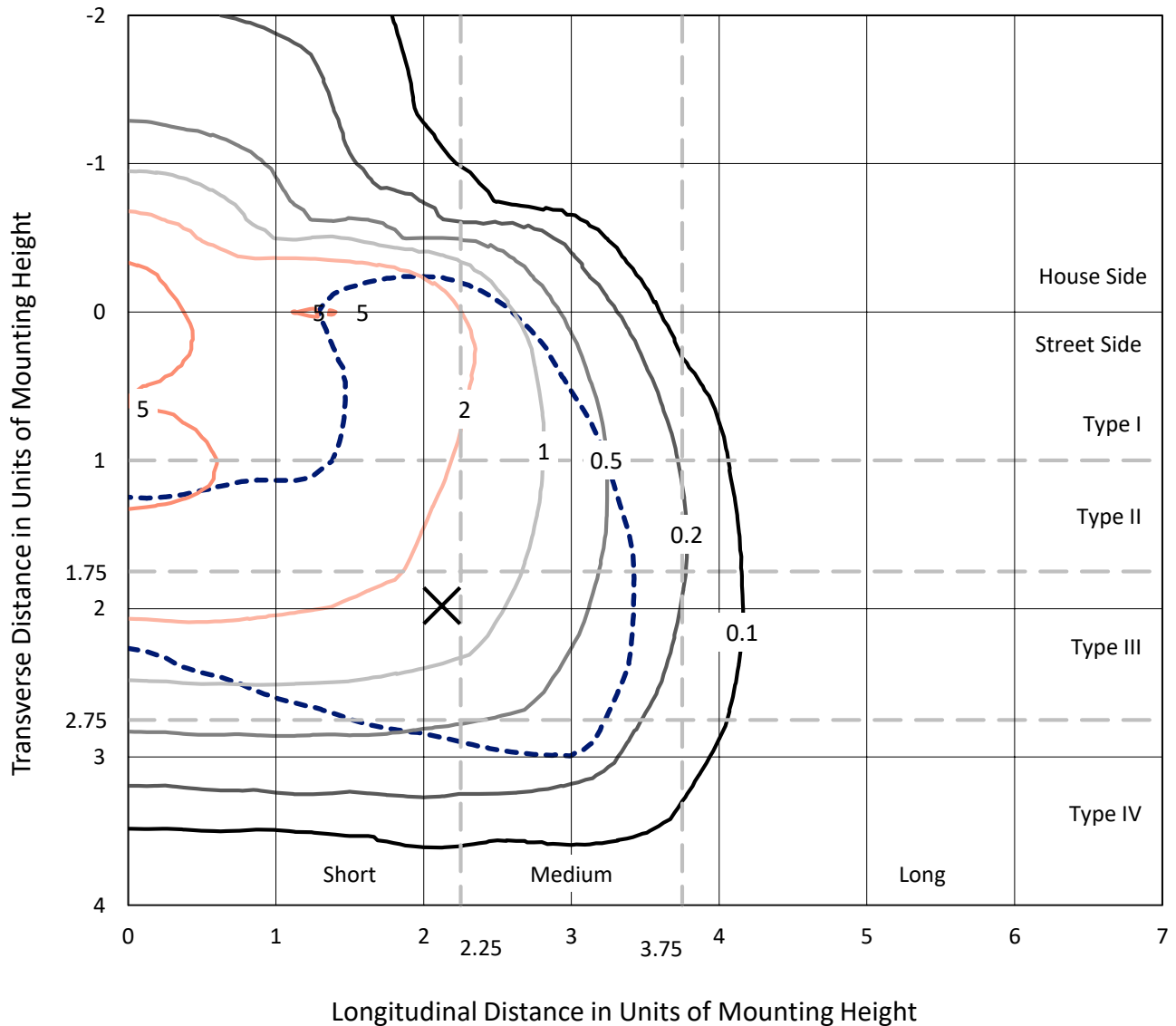


REPORT NUMBER: P271280

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

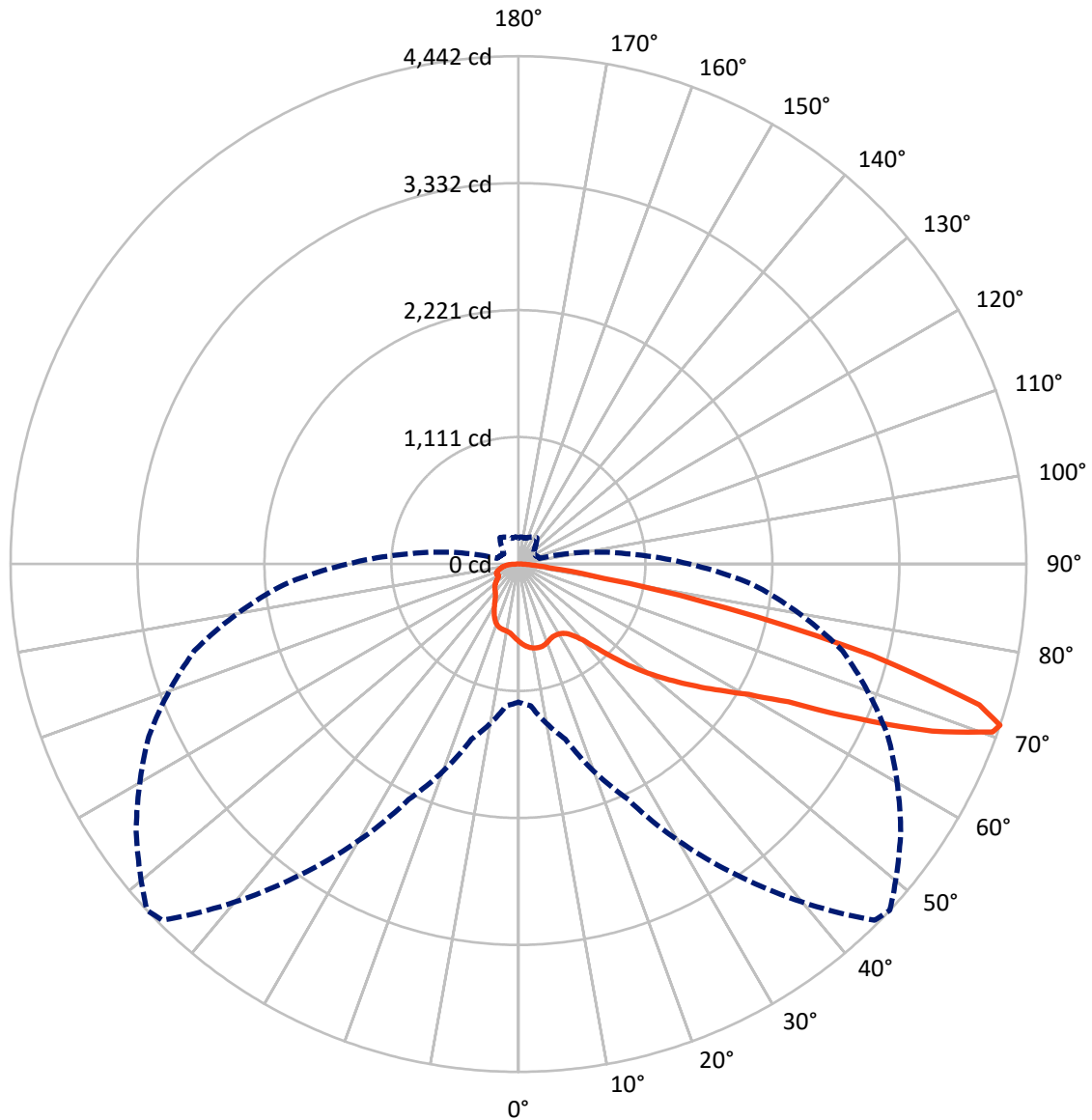
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.8	0.0	1220.8
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	4475.7	0.0	4475.7
	% Fixture	78.6	0.0	78.6
Total	Lumens	5696.5	0.0	5696.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.7	1.1
10°-20°	189.2	3.3
20°-30°	281.2	4.9
30°-40°	403.7	7.1
40°-50°	715.8	12.6
50°-60°	1224.9	21.5
60°-70°	1738.9	30.5
70°-80°	952.4	16.7
80°-90°	125.7	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5696.5	100.0
0°-180°	5696.5	100.0

Coefficient of Utilization



REPORT NUMBER: P271280

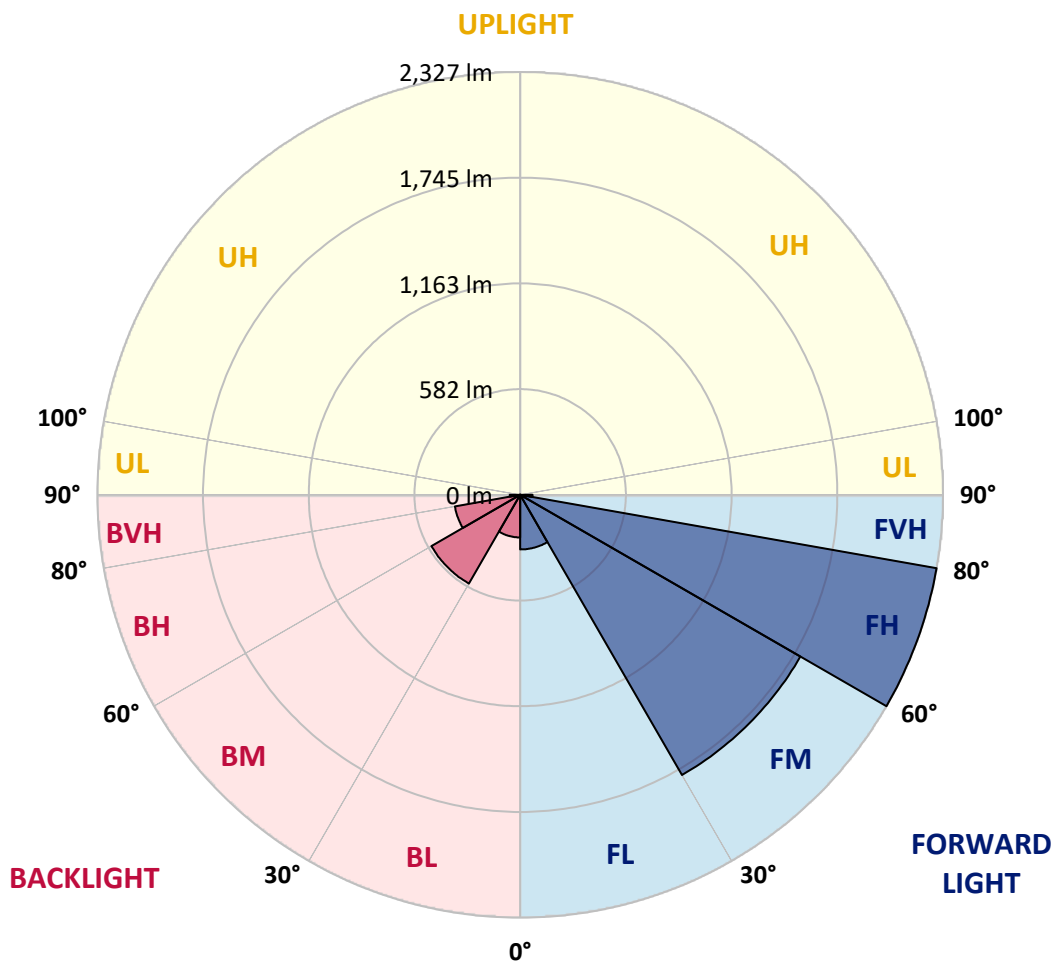
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.6	5.3			
FM	(30°-60°)	1780.3	31.3			
FH	(60°-80°)	2326.5	40.8			G2/5000
FVH	(80°-90°)	68.2	1.2			G1/100
BL	(0°-30°)	234.4	4.1	B1/500		
BM	(30°-60°)	564.1	9.9	B1/1000		
BH	(60°-80°)	364.8	6.4	B1/500		G1/500
BVH	(80°-90°)	57.5	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P271280

CATALOG NUMBER: XNV-AF-01-LED-U-T4W-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
2.5°	718.7	717.2	718.0	715.4	709.1	702.6	702.6	695.5	688.1	680.7	672.7
5°	763.4	761.3	759.3	751.3	739.0	725.4	723.1	709.1	694.0	678.8	664.1
7.5°	800.7	798.6	792.9	778.2	760.4	740.2	737.6	719.2	699.2	678.1	657.5
10°	827.2	825.8	815.1	796.3	775.5	751.6	747.2	728.3	704.7	678.5	652.3
12.5°	842.0	839.8	826.9	804.8	780.4	756.1	751.6	733.6	706.5	677.9	647.1
15°	836.1	835.1	822.8	800.3	776.0	754.9	751.3	732.7	705.4	675.2	642.4
17.5°	811.1	813.7	804.1	781.9	761.9	747.2	743.1	725.8	699.9	668.9	634.9
20°	776.3	779.3	774.5	752.1	740.6	731.0	728.7	714.7	690.6	659.6	626.1
22.5°	739.5	742.0	742.4	721.3	717.7	714.0	712.0	702.1	682.6	654.1	620.2
25°	714.0	716.8	717.7	699.2	701.3	702.6	702.1	695.1	681.2	654.1	620.9
27.5°	707.3	708.9	708.0	691.1	695.1	701.3	701.8	700.3	687.1	661.5	631.2
30°	730.2	731.0	721.7	696.2	700.3	708.5	708.9	708.0	699.6	680.7	654.5
32.5°	829.1	828.3	796.6	731.0	716.8	719.8	721.0	727.5	728.3	712.4	688.1
35°	979.7	979.4	942.5	830.3	764.2	748.6	750.2	760.4	769.7	759.0	745.0
37.5°	1145.5	1146.6	1124.0	972.0	866.1	801.5	800.0	807.8	824.4	828.1	829.9
40°	1329.3	1334.9	1333.8	1134.7	1008.9	891.5	876.7	867.9	900.0	920.4	946.5
42.5°	1539.3	1537.9	1538.6	1313.5	1172.1	1033.3	1005.9	964.6	1001.9	1037.0	1094.6
45°	1720.0	1725.9	1730.2	1503.7	1354.9	1195.4	1167.6	1092.3	1125.9	1178.3	1266.3
47.5°	1901.5	1891.2	1899.3	1715.1	1558.2	1380.2	1344.6	1243.0	1274.3	1348.1	1481.8
50°	2113.2	2108.3	2071.3	1991.3	1804.1	1567.8	1520.9	1400.2	1446.0	1544.5	1748.0
52.5°	2302.8	2277.1	2248.2	2208.4	2045.9	1757.5	1698.2	1563.8	1647.9	1770.1	2078.4
55°	2372.2	2354.8	2389.6	2441.2	2301.7	1950.9	1884.6	1754.6	1875.8	2028.2	2467.1
57.5°	2446.1	2452.0	2530.3	2634.6	2543.9	2157.4	2085.3	1980.6	2125.6	2316.9	2901.6
60°	2482.9	2506.6	2662.8	2858.8	2774.2	2383.7	2314.7	2240.1	2402.8	2635.7	3335.0
62.5°	2489.3	2521.1	2742.2	2937.4	3091.3	2730.3	2650.5	2569.7	2749.2	2988.3	3648.7
65°	2374.1	2422.8	2735.1	3034.1	3380.4	3309.5	3259.0	3117.9	3212.8	3298.8	3702.4
67.5°	2035.6	2088.6	2464.5	2994.3	3612.3	3910.5	3900.9	3692.8	3570.9	3418.8	3305.5
70°	1494.1	1536.8	1897.8	2559.8	3511.0	4382.3	4399.3	4065.2	3671.0	3164.1	2457.9
71°	1208.3	1245.2	1585.6	2272.5	3313.9	4406.6	4442.1	4081.8	3566.8	2934.1	2057.7
72.5°	752.1	772.6	1052.9	1715.1	2853.6	4155.6	4215.4	3869.2	3239.0	2480.0	1454.4
75°	283.9	291.9	390.6	756.5	1703.2	3122.0	3194.4	2924.2	2275.4	1415.6	608.7
77.5°	152.4	156.6	193.9	314.5	682.6	1789.8	1882.7	1667.9	1091.6	495.4	248.8
80°	102.2	104.8	133.9	186.4	313.8	681.5	759.0	669.6	408.6	282.7	177.1
82.5°	66.0	67.6	91.2	122.6	202.7	239.6	273.5	285.8	255.1	202.7	107.1
85°	43.6	44.6	60.1	78.2	125.6	118.1	121.1	158.5	173.9	133.7	54.6
87.5°	25.2	25.8	36.2	40.2	56.5	44.2	48.0	75.3	103.3	87.1	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271280

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4	677.4
2.5°	668.9	666.0	659.4	655.3	653.3	652.7	651.9	653.3	653.3	652.7	651.2
5°	656.8	651.2	640.1	632.3	628.4	627.1	628.6	630.5	631.7	631.7	630.5
7.5°	647.9	639.8	625.0	614.4	608.1	606.1	610.2	616.9	621.3	623.6	624.0
10°	640.5	629.4	613.2	602.1	597.0	596.1	601.3	609.9	619.1	623.2	624.0
12.5°	633.8	621.3	603.7	593.2	589.6	591.4	598.5	606.1	616.9	622.7	623.2
15°	627.6	614.7	595.8	585.2	584.3	587.3	594.0	600.2	608.4	615.8	615.8
17.5°	620.2	606.1	586.7	576.6	576.6	579.1	583.7	587.0	592.2	599.2	598.8
20°	611.3	597.0	577.0	566.7	564.5	563.0	563.0	563.6	568.2	574.5	575.5
22.5°	604.6	589.9	568.8	556.3	546.3	536.7	532.8	531.2	535.3	541.1	542.7
25°	604.6	589.9	566.3	545.2	520.8	502.4	494.6	492.5	496.6	502.1	504.3
27.5°	614.7	599.9	572.2	535.3	490.7	461.1	451.8	450.1	453.7	458.1	460.3
30°	637.8	623.6	589.2	523.8	457.0	418.3	407.9	406.0	407.9	409.7	412.3
32.5°	676.7	664.4	616.9	513.6	423.0	379.5	367.0	364.1	364.7	365.2	367.2
35°	739.8	734.3	653.7	501.3	390.9	347.7	334.8	328.9	328.6	330.3	333.0
37.5°	836.5	839.8	701.3	483.6	364.4	325.2	312.3	306.4	303.4	307.1	310.1
40°	973.1	980.9	756.5	459.7	342.6	311.9	298.2	292.8	288.6	287.5	289.1
42.5°	1150.6	1148.5	812.5	429.0	319.0	303.1	288.6	282.7	276.0	267.6	265.8
45°	1361.1	1329.3	859.4	391.3	291.9	294.6	279.8	271.6	261.3	248.8	247.4
47.5°	1609.6	1522.1	888.2	351.1	266.8	283.5	269.9	257.4	242.2	234.1	232.9
50°	1909.0	1747.7	908.5	310.1	244.3	269.5	255.8	239.2	224.4	222.2	221.9
52.5°	2263.3	2013.8	933.6	273.2	226.6	251.3	241.9	224.8	213.0	214.2	214.2
55°	2640.3	2289.2	934.3	244.0	211.1	230.3	231.5	217.7	208.5	212.3	213.3
57.5°	2983.9	2529.8	860.8	223.4	196.4	213.7	228.1	220.4	213.3	226.4	227.5
60°	3283.7	2715.1	702.8	206.4	184.2	207.5	235.5	236.3	234.7	269.9	272.5
62.5°	3393.3	2717.1	499.1	192.0	177.5	211.1	251.0	252.2	252.2	284.7	289.4
65°	3239.7	2490.7	332.3	183.4	173.2	219.2	263.7	258.8	247.4	269.9	264.7
67.5°	2698.6	1938.8	242.9	178.0	166.8	219.6	274.6	262.5	242.9	262.1	253.2
70°	1854.7	1233.7	203.3	172.7	159.4	210.1	280.6	261.3	236.3	244.3	232.7
71°	1493.0	984.5	193.0	170.9	156.6	204.5	281.3	259.9	232.9	238.1	227.5
72.5°	983.5	606.5	180.5	166.8	152.2	194.9	279.5	256.6	228.4	228.9	221.9
75°	388.0	251.3	162.5	157.7	139.5	179.4	271.4	249.5	220.1	212.5	209.7
77.5°	196.0	164.3	142.9	144.6	124.8	163.5	259.9	238.1	208.1	198.3	196.0
80°	143.2	124.8	122.2	125.6	108.2	148.0	245.4	222.6	193.0	203.3	199.0
82.5°	87.1	76.0	95.6	103.8	90.5	132.2	228.4	204.5	173.9	160.2	155.0
85°	41.3	44.6	69.0	76.4	66.8	105.6	208.9	184.6	151.8	131.1	133.3
87.5°	20.3	24.8	39.4	45.8	43.9	77.6	157.7	143.2	119.7	98.5	96.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)