

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: P198798

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198798
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
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6115.2 lumens
Efficiency: N/A
Efficacy: 105.4 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

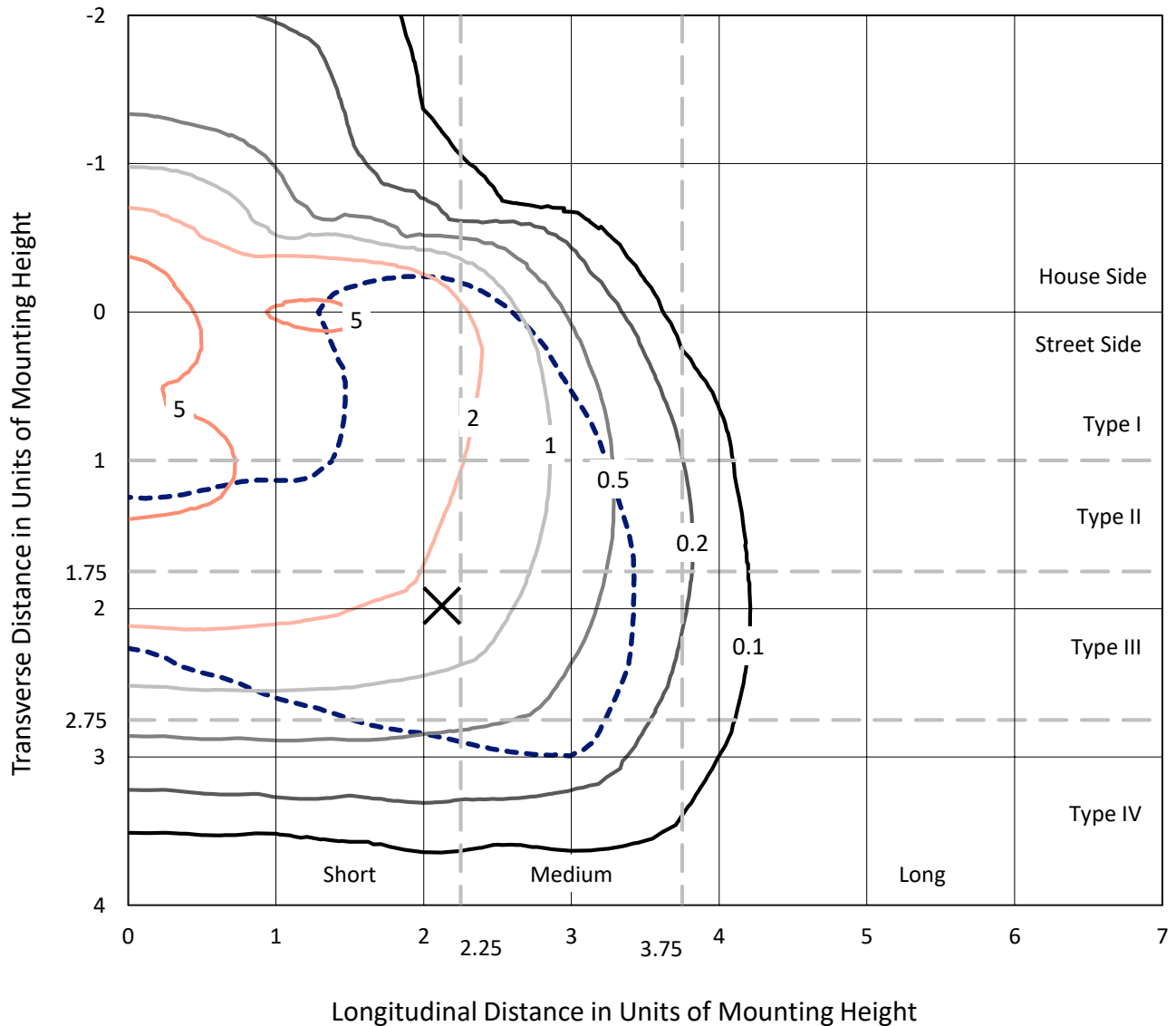
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

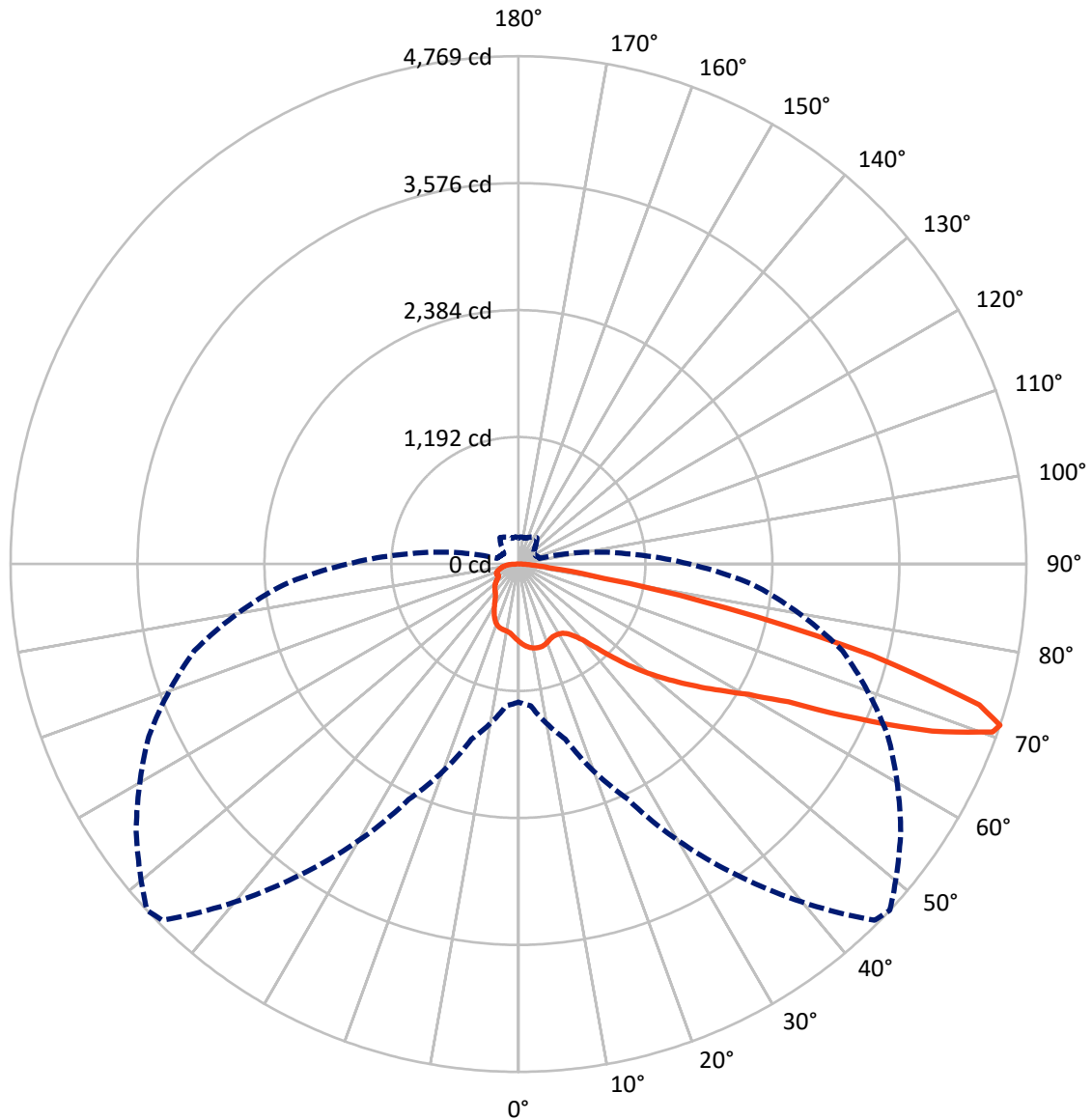


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - Semi-Cutoff

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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	1310.6	0.0	1310.6
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	4804.6	0.0	4804.6
	% Fixture	78.6	0.0	78.6
Total	Lumens	6115.2	0.0	6115.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	1.1
10°-20°	203.1	3.3
20°-30°	301.8	4.9
30°-40°	433.4	7.1
40°-50°	768.4	12.6
50°-60°	1314.9	21.5
60°-70°	1866.7	30.5
70°-80°	1022.4	16.7
80°-90°	135.0	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°	6115.2	100.0
0°-180°	6115.2	100.0

Coefficient of Utilization



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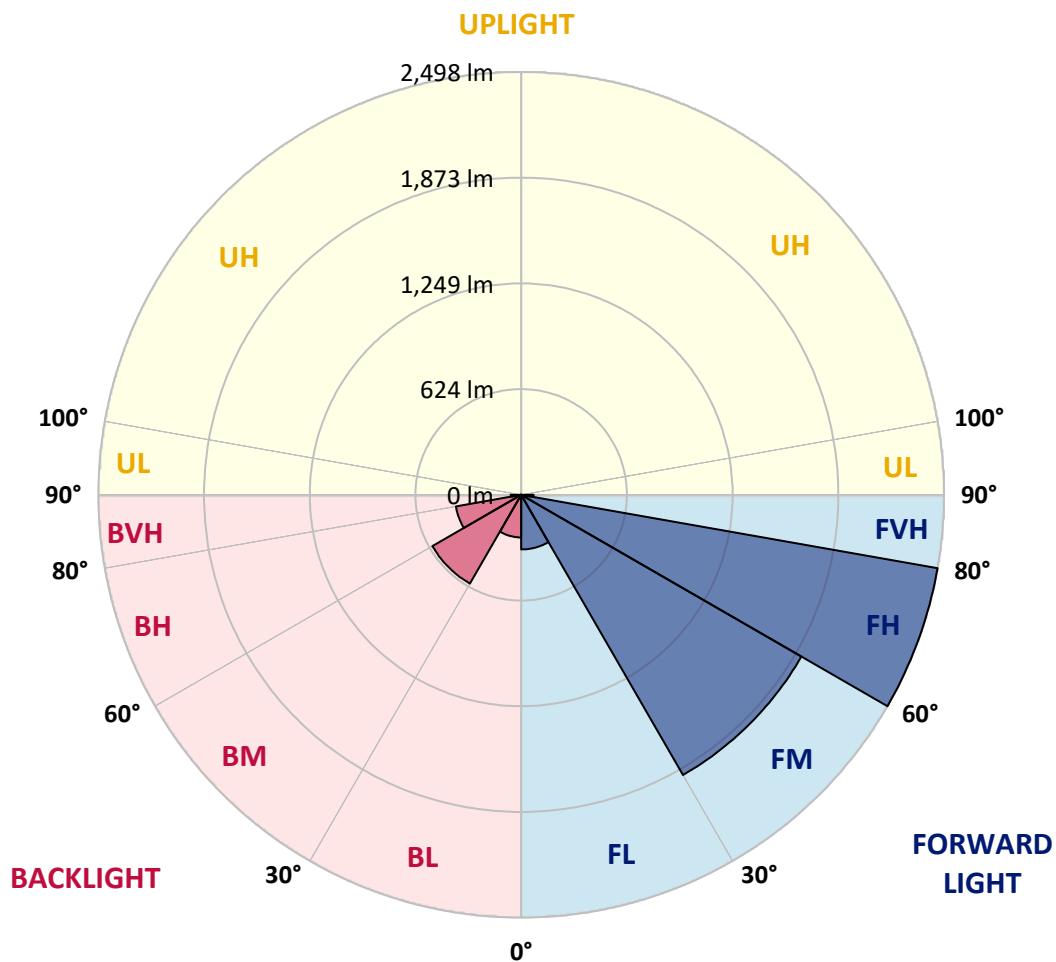
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	322.7	5.3			
FM	(30°-60°)	1911.2	31.3			
FH	(60°-80°)	2497.5	40.8			G2/5000
FVH	(80°-90°)	73.2	1.2			G1/100
BL	(0°-30°)	251.7	4.1	B1/500		
BM	(30°-60°)	605.6	9.9	B1/1000		
BH	(60°-80°)	391.6	6.4	B1/500		G1/500
BVH	(80°-90°)	61.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	771.6	770.0	770.8	768.0	761.3	754.1	754.1	746.7	738.7	730.8	722.0
5°	819.5	817.1	815.2	806.5	793.4	778.7	776.3	761.3	745.0	728.8	712.9
7.5°	859.6	857.2	851.2	835.3	816.3	794.5	791.8	772.0	750.5	728.0	705.8
10°	888.1	886.5	875.0	854.8	832.6	806.9	802.1	781.8	756.6	728.3	700.2
12.5°	904.0	901.5	887.7	863.9	837.8	811.6	806.9	787.5	758.5	727.6	694.7
15°	897.6	896.4	883.3	859.2	833.0	810.4	806.5	786.6	757.3	724.9	689.6
17.5°	870.6	873.4	863.2	839.3	818.0	802.1	797.7	779.1	751.4	718.1	681.6
20°	833.4	836.6	831.5	807.2	794.9	784.7	782.3	767.2	741.4	708.2	672.1
22.5°	793.8	796.6	797.0	774.4	770.4	766.4	764.5	753.7	732.7	702.3	665.7
25°	766.4	769.6	770.4	750.5	753.0	754.1	753.7	746.2	731.2	702.3	666.6
27.5°	759.3	760.9	760.1	741.8	746.2	753.0	753.4	751.8	737.5	710.1	677.7
30°	783.9	784.7	774.8	747.4	751.8	760.5	760.9	760.1	750.9	730.8	702.7
32.5°	890.1	889.3	855.2	784.7	769.6	772.7	774.0	781.1	781.8	764.9	738.7
35°	1051.8	1051.4	1011.7	891.3	820.3	803.7	805.3	816.3	826.2	814.8	799.7
37.5°	1229.7	1230.9	1206.7	1043.4	929.7	860.4	858.8	867.1	885.0	888.8	890.9
40°	1427.0	1432.9	1431.8	1218.2	1083.1	957.1	941.2	931.7	966.2	988.0	1016.1
42.5°	1652.6	1650.9	1651.8	1410.0	1258.2	1109.2	1079.9	1035.5	1075.5	1113.2	1175.0
45°	1846.3	1852.7	1857.5	1614.1	1454.4	1283.2	1253.5	1172.6	1208.7	1265.0	1359.3
47.5°	2041.3	2030.3	2038.9	1841.2	1672.7	1481.7	1443.3	1334.3	1368.0	1447.3	1590.7
50°	2268.4	2263.3	2223.6	2137.7	1936.7	1683.1	1632.7	1503.1	1552.3	1658.1	1876.5
52.5°	2472.1	2444.3	2413.4	2370.6	2196.3	1886.7	1823.0	1678.7	1769.1	1900.2	2231.2
55°	2546.6	2527.9	2565.3	2620.7	2470.9	2094.4	2023.1	1883.6	2013.6	2177.2	2648.4
57.5°	2625.8	2632.2	2716.2	2828.4	2730.9	2316.0	2238.6	2126.1	2281.9	2487.1	3114.9
60°	2665.5	2690.9	2858.4	3068.9	2978.1	2558.9	2484.7	2404.8	2579.5	2829.6	3580.1
62.5°	2672.3	2706.3	2943.6	3153.3	3318.6	2931.0	2845.4	2758.6	2951.2	3208.0	3917.0
65°	2548.6	2600.9	2936.2	3257.2	3628.8	3552.8	3498.5	3347.1	3449.0	3541.3	3974.5
67.5°	2185.1	2242.2	2645.7	3214.3	3877.7	4198.0	4187.7	3964.1	3833.3	3670.0	3548.4
70°	1603.8	1649.8	2037.3	2748.0	3769.2	4704.4	4722.7	4364.0	3940.7	3396.6	2638.5
71°	1297.1	1336.7	1702.1	2439.6	3557.5	4730.5	4768.6	4381.8	3829.0	3149.8	2209.0
72.5°	807.2	829.4	1130.3	1841.2	3063.3	4461.1	4525.3	4153.6	3477.1	2662.3	1561.4
75°	304.7	313.4	419.3	812.0	1828.5	3351.5	3429.1	3139.0	2442.8	1519.8	653.5
77.5°	163.7	168.1	208.1	337.7	732.7	1921.2	2021.1	1790.5	1171.9	531.8	267.1
80°	109.8	112.5	143.8	200.1	336.9	731.5	814.8	718.8	438.7	303.6	190.3
82.5°	70.9	72.5	97.9	131.6	217.6	257.2	293.7	306.7	273.8	217.6	114.9
85°	46.7	48.0	64.5	84.0	134.7	126.8	130.0	170.0	186.7	143.4	58.6
87.5°	26.9	27.7	38.9	43.2	60.7	47.6	51.6	80.8	111.0	93.5	33.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2	727.2
2.5°	718.1	714.9	707.8	703.4	701.4	700.6	699.9	701.4	701.4	700.6	699.1
5°	705.0	699.1	687.2	678.8	674.5	673.3	674.8	676.9	678.0	678.0	676.9
7.5°	695.5	686.8	671.0	659.4	652.7	650.7	655.1	662.3	667.0	669.3	669.7
10°	687.5	675.7	658.3	646.4	640.8	640.1	645.6	654.7	664.6	668.9	669.7
12.5°	680.5	667.0	647.9	636.9	632.9	634.8	642.4	650.7	662.3	668.5	668.9
15°	673.7	659.8	639.7	628.1	627.4	630.5	637.6	644.4	653.1	661.0	661.0
17.5°	665.7	650.7	629.7	619.0	619.0	621.7	626.6	630.1	635.7	643.2	642.8
20°	656.2	640.8	619.4	608.3	605.9	604.4	604.4	605.2	609.9	616.6	617.9
22.5°	649.2	633.3	610.7	597.2	586.6	576.2	571.8	570.3	574.6	580.9	582.6
25°	649.2	633.3	607.9	585.3	559.1	539.4	531.0	528.7	533.1	539.0	541.3
27.5°	659.8	643.9	614.3	574.6	526.7	495.0	485.1	483.0	487.0	491.8	494.2
30°	684.8	669.3	632.5	562.3	490.6	449.0	437.9	435.9	437.9	439.9	442.6
32.5°	726.4	713.3	662.3	551.3	454.2	407.4	393.9	390.8	391.6	391.9	394.3
35°	794.2	788.2	701.8	538.2	419.7	373.3	359.5	353.1	352.7	354.7	357.4
37.5°	898.0	901.5	753.0	519.1	391.2	349.1	335.2	328.9	325.7	329.7	332.9
40°	1044.6	1052.9	812.0	493.4	367.8	334.9	320.2	314.3	309.9	308.7	310.3
42.5°	1235.2	1232.9	872.3	460.5	342.4	325.4	309.9	303.6	296.5	287.3	285.3
45°	1461.2	1427.0	922.6	420.0	313.4	316.2	300.4	291.6	280.6	267.1	265.6
47.5°	1727.9	1634.0	953.5	376.9	286.5	304.3	289.7	276.2	259.9	251.2	250.1
50°	2049.3	1876.1	975.3	332.9	262.4	289.3	274.7	256.8	240.9	238.6	238.1
52.5°	2429.7	2161.8	1002.2	293.3	243.4	269.9	259.5	241.3	228.6	229.9	229.9
55°	2834.3	2457.4	1003.0	262.0	226.7	247.2	248.5	233.8	223.9	227.9	229.0
57.5°	3203.3	2715.8	924.1	239.8	210.8	229.4	244.9	236.6	229.0	243.0	244.1
60°	3525.0	2914.7	754.5	221.6	197.7	222.7	252.9	253.6	252.1	289.7	292.5
62.5°	3642.7	2916.7	535.8	206.0	190.6	226.7	269.4	270.7	270.7	305.6	310.7
65°	3477.8	2673.8	356.7	196.9	185.9	235.4	282.9	277.8	265.6	289.7	284.2
67.5°	2896.9	2081.3	260.8	191.0	179.1	235.8	294.8	281.7	260.8	281.4	271.9
70°	1991.0	1324.4	218.4	185.5	171.2	225.5	301.2	280.6	253.6	262.4	249.7
71°	1602.7	1056.9	207.2	183.5	168.1	219.5	302.0	279.0	250.1	255.6	244.1
72.5°	1055.7	651.1	193.7	179.1	163.3	209.2	300.0	275.4	245.3	245.7	238.1
75°	416.5	269.9	174.4	169.2	149.8	192.6	291.2	267.9	236.2	228.2	225.0
77.5°	210.4	176.4	153.3	155.4	133.9	175.5	279.0	255.6	223.5	212.8	210.4
80°	153.7	133.9	131.1	134.7	116.1	158.9	263.5	239.0	207.2	218.4	213.6
82.5°	93.5	81.6	102.6	111.4	97.1	141.9	245.3	219.5	186.7	172.0	166.4
85°	44.4	48.0	74.1	82.0	71.7	113.3	224.3	198.1	162.9	140.7	143.1
87.5°	21.8	26.6	42.5	49.1	47.2	83.3	169.2	153.7	128.4	105.8	103.4
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)