

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: P271246

Luminaire Tested: **XNV-AF-01-LED-U-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5498.3 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-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

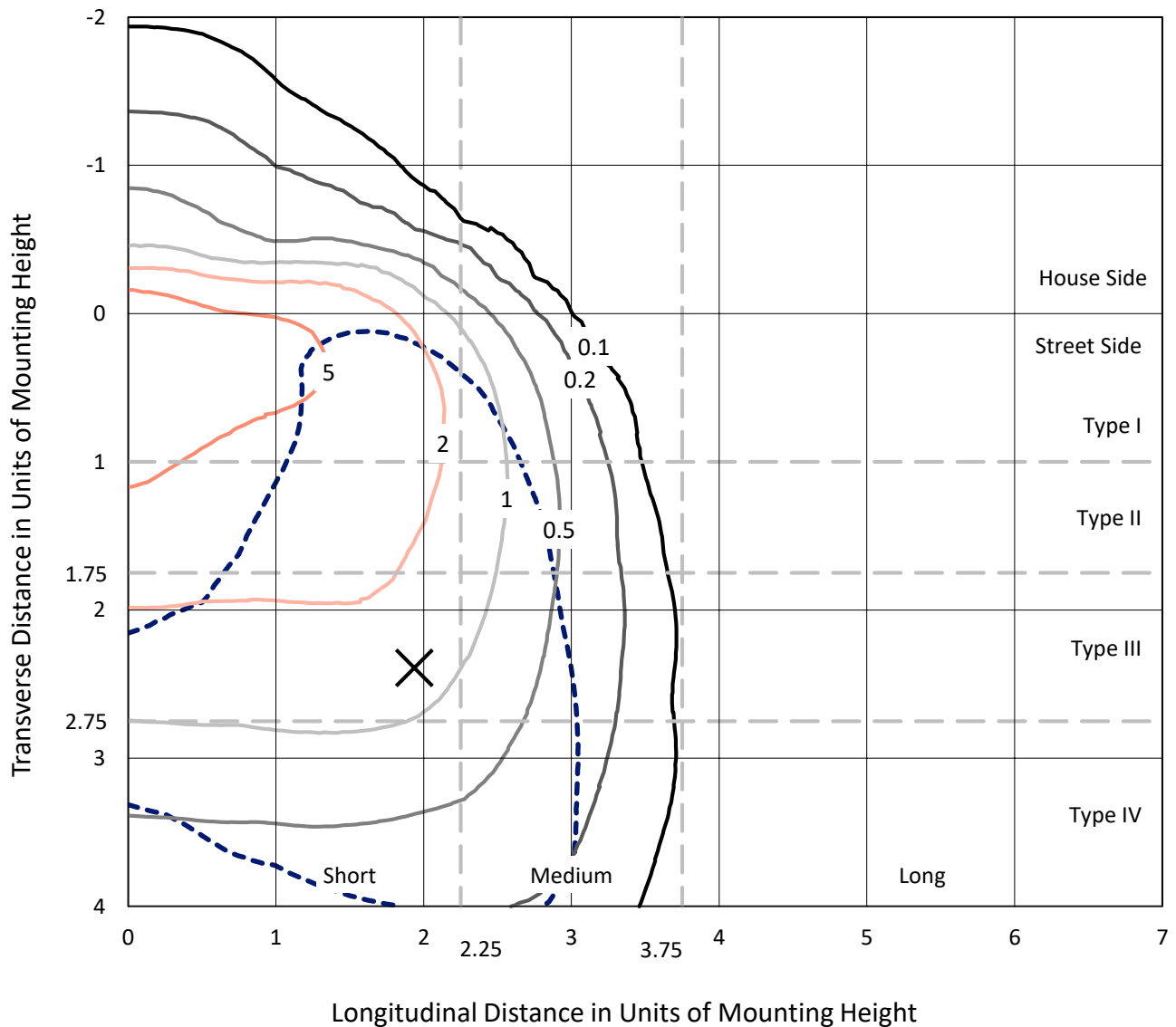


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

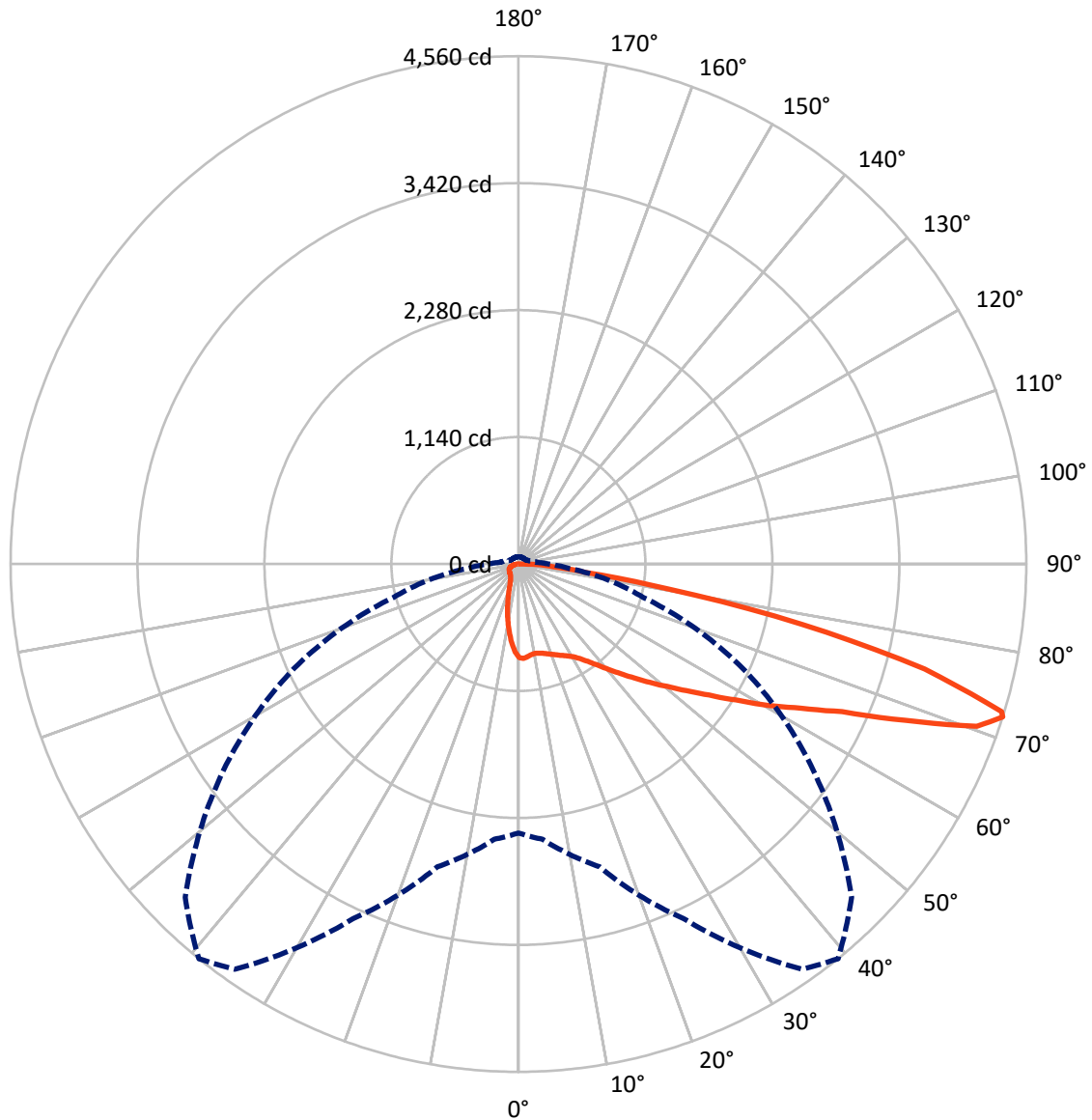


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.4	0.0	630.4
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	4867.8	0.0	4867.8
	% Fixture	88.5	0.0	88.5
Total	Lumens	5498.3	0.0	5498.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.3
10°-20°	181.3	3.3
20°-30°	282.6	5.1
30°-40°	435.1	7.9
40°-50°	709.2	12.9
50°-60°	1102.1	20.0
60°-70°	1475.1	26.8
70°-80°	1060.8	19.3
80°-90°	179.8	3.3
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°	5498.3	100.0
0°-180°	5498.3	100.0

Coefficient of Utilization



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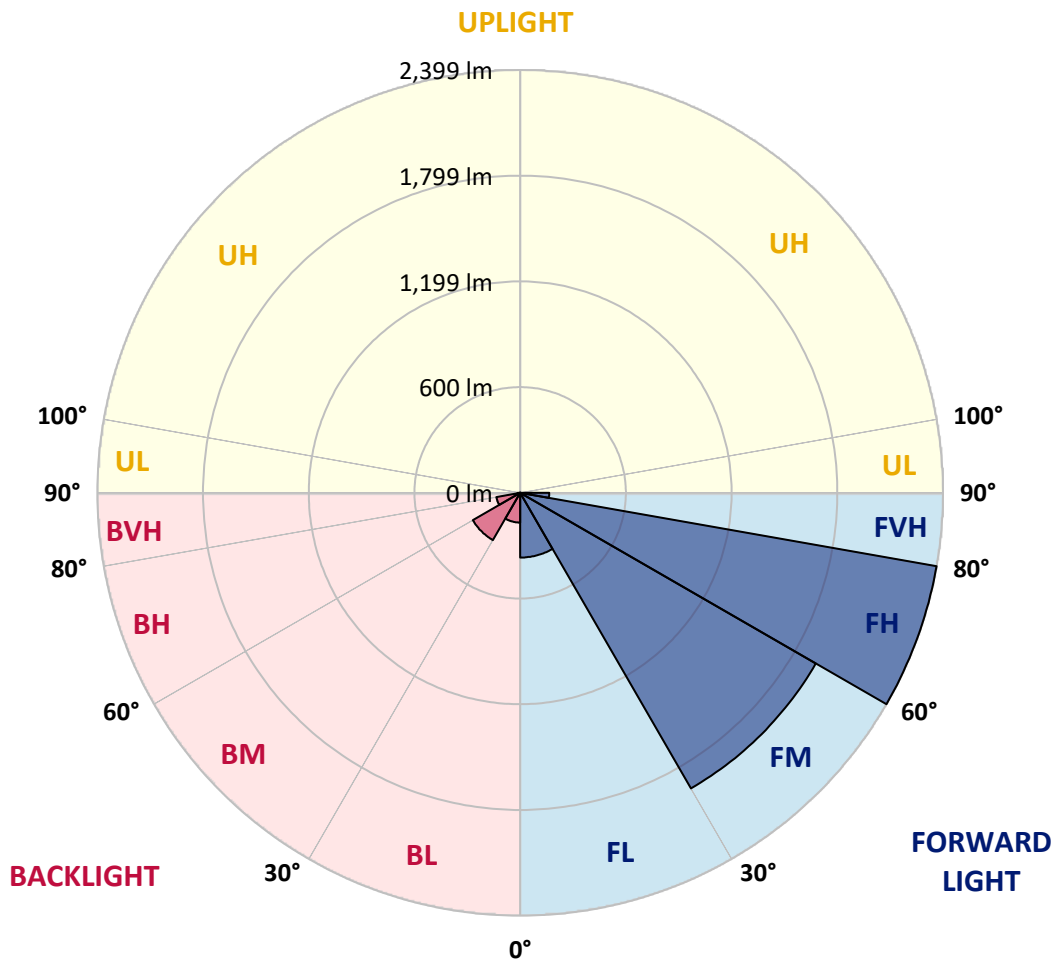
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.3	6.7			
FM	(30°-60°)	1936.6	35.2			
FH	(60°-80°)	2399.0	43.6			G2/5000
FVH	(80°-90°)	165.0	3.0			G2/225
BL	(0°-30°)	168.8	3.1	B1/500		
BM	(30°-60°)	309.8	5.6	B1/1000		
BH	(60°-80°)	137.0	2.5	B1/500		G1/500
BVH	(80°-90°)	14.9	0.3			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°	39°	45°	55°	65°	75°	85°
0°	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6
2.5°	857.8	858.2	857.1	853.7	850.8	849.3	846.7	842.3	836.3	832.3	829.0
5°	849.6	850.8	850.1	844.4	839.2	836.3	832.3	826.0	818.3	814.9	807.1
7.5°	843.4	844.0	841.9	835.7	825.6	821.9	814.7	806.5	799.4	794.6	785.4
10°	838.9	839.6	837.8	831.7	820.5	816.1	807.1	798.4	789.2	783.2	772.9
12.5°	832.6	834.2	834.2	831.2	823.8	820.8	812.0	802.4	793.9	787.6	774.7
15°	831.7	833.4	836.7	836.3	834.2	831.9	825.0	815.3	807.9	800.6	784.7
17.5°	840.9	844.9	851.6	853.7	852.2	847.5	839.2	830.5	822.4	815.3	795.8
20°	864.0	866.2	876.2	880.7	873.2	866.2	855.5	844.0	836.7	831.2	806.0
22.5°	899.2	902.1	910.3	910.5	895.0	886.5	873.0	858.9	851.9	849.6	820.2
25°	955.2	954.4	956.7	947.4	919.4	909.4	892.8	876.6	871.7	876.2	840.9
27.5°	1022.5	1020.6	1013.5	989.6	947.2	934.1	914.2	899.8	899.8	910.3	868.8
30°	1099.9	1098.1	1075.1	1034.9	980.0	965.1	944.1	928.9	936.8	956.7	906.8
32.5°	1181.8	1175.3	1143.1	1089.1	1026.9	1010.6	990.3	974.8	989.6	1023.4	961.5
35°	1259.0	1255.3	1215.8	1151.9	1087.4	1073.7	1059.7	1040.4	1064.1	1116.9	1038.6
37.5°	1338.7	1335.7	1287.5	1219.4	1161.1	1151.9	1140.0	1126.8	1164.8	1234.2	1143.1
40°	1427.6	1421.7	1360.8	1292.9	1247.1	1242.7	1236.4	1232.7	1294.1	1397.4	1275.2
42.5°	1528.3	1517.0	1438.4	1373.8	1340.9	1344.7	1341.3	1356.0	1449.8	1585.6	1432.4
45°	1643.5	1620.7	1515.5	1459.7	1444.7	1459.3	1466.5	1504.0	1633.9	1803.0	1608.1
47.5°	1751.3	1721.8	1600.1	1553.1	1561.7	1587.0	1607.0	1673.5	1835.9	2017.9	1787.4
50°	1850.6	1817.5	1690.4	1649.8	1691.1	1727.4	1768.8	1862.5	2050.7	2238.9	1952.1
52.5°	1924.1	1900.1	1780.9	1755.4	1839.9	1887.9	1954.0	2072.5	2267.7	2449.7	2099.0
55°	1980.9	1967.9	1869.1	1876.5	2008.3	2076.9	2157.0	2293.2	2497.3	2638.6	2217.1
57.5°	2046.6	2036.9	1969.9	2022.7	2217.1	2303.6	2397.9	2549.3	2715.8	2805.0	2309.8
60°	2116.0	2116.0	2082.0	2198.7	2478.5	2577.3	2671.5	2789.2	2933.5	2955.0	2347.5
62.5°	2168.4	2182.1	2194.2	2386.2	2726.4	2849.3	2952.6	3065.6	3159.1	3028.7	2258.9
65°	2244.4	2273.6	2342.2	2602.7	3033.5	3194.6	3334.0	3428.9	3341.8	2970.1	1969.9
67.5°	2375.1	2418.2	2564.4	2925.4	3503.7	3744.9	3880.3	3716.4	3305.9	2600.7	1508.9
70°	2492.8	2553.7	2803.6	3334.8	4115.0	4365.3	4302.9	3649.5	2879.2	1906.4	928.3
72°	2414.6	2480.9	2814.7	3513.0	4441.7	4559.7	4230.8	3234.3	2224.9	1163.3	457.6
72.5°	2363.4	2432.3	2778.8	3508.6	4450.6	4535.1	4130.9	3069.4	2019.7	1018.0	370.2
75°	1974.3	2033.4	2389.5	3109.7	3922.0	3767.0	3223.7	1986.4	928.3	328.9	190.4
77.5°	1289.2	1334.3	1647.6	2154.3	2747.1	2598.1	1962.1	930.1	348.1	199.7	143.2
80°	647.8	679.8	881.7	1132.8	1482.7	1364.2	905.8	450.0	232.9	144.3	112.6
82.5°	450.7	480.1	607.2	578.4	619.7	599.8	425.9	375.3	174.2	91.2	59.1
85°	377.9	408.5	502.3	412.3	337.4	307.5	305.2	354.7	115.2	45.0	49.9
87.5°	329.6	376.1	414.5	301.2	231.5	204.2	224.8	325.1	36.6	24.8	15.1
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°	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6	839.6
2.5°	823.4	822.4	816.7	808.4	802.0	798.0	790.1	789.9	790.6	784.0	786.6
5°	800.2	795.8	781.3	761.9	746.0	730.9	714.2	708.7	703.8	693.9	695.0
7.5°	775.9	768.1	743.0	710.9	680.2	652.2	624.5	610.8	600.4	587.6	587.6
10°	761.5	749.2	710.9	663.9	615.2	574.2	533.0	508.3	490.1	473.5	472.5
12.5°	760.8	742.2	688.7	624.1	557.3	499.7	443.3	405.2	378.4	358.8	356.8
15°	766.7	740.7	670.2	586.9	502.7	427.8	358.1	309.6	275.3	253.6	251.3
17.5°	771.7	738.9	650.4	547.7	449.5	358.3	280.9	230.7	198.2	180.5	178.7
20°	776.6	734.9	625.0	506.4	390.9	293.4	219.6	179.0	157.7	147.6	146.6
22.5°	783.6	731.2	598.4	459.9	333.4	238.8	181.2	152.1	140.7	135.9	135.0
25°	795.0	731.5	572.5	412.3	280.5	199.0	156.8	138.8	132.5	129.1	129.1
27.5°	811.6	736.0	547.0	364.0	235.9	171.7	142.6	131.8	127.6	125.1	124.3
30°	836.1	744.1	520.1	318.2	200.4	152.8	133.9	127.3	124.1	121.8	121.5
32.5°	871.4	758.4	491.6	276.5	173.5	139.4	127.6	123.6	121.0	119.3	118.8
35°	924.1	784.0	464.0	241.0	154.2	130.0	122.6	119.3	117.8	117.0	116.6
37.5°	1001.7	825.0	437.7	213.3	141.8	123.6	117.4	115.5	114.9	114.9	114.9
40°	1099.2	878.8	414.1	193.8	134.7	118.8	113.6	112.2	112.2	112.6	112.6
42.5°	1217.7	946.4	393.8	180.5	130.7	115.5	111.1	110.3	110.0	110.0	110.3
45°	1355.4	1026.0	381.3	170.1	127.6	113.6	109.2	108.9	107.3	106.7	106.7
47.5°	1493.7	1111.4	380.5	164.2	124.1	111.5	107.3	107.3	104.5	102.9	103.3
50°	1622.9	1187.6	388.6	162.8	121.8	108.2	105.6	105.9	101.9	100.0	99.6
52.5°	1727.0	1246.0	398.6	164.6	121.8	105.2	102.2	104.1	99.6	97.5	97.0
55°	1807.4	1286.6	402.4	168.7	123.2	102.5	99.4	102.2	99.0	95.9	95.9
57.5°	1865.1	1299.6	386.5	170.5	125.6	102.2	96.4	101.9	100.0	96.4	96.4
60°	1844.0	1224.7	327.4	163.5	125.1	101.5	94.1	102.5	103.8	99.6	99.6
62.5°	1679.7	1024.5	262.8	147.6	118.8	99.0	91.5	101.9	106.3	104.8	104.1
65°	1367.5	751.4	203.7	128.7	108.2	93.3	86.0	95.2	100.4	101.9	102.2
67.5°	963.7	475.7	158.3	109.7	94.9	85.2	79.7	84.1	86.0	86.7	88.3
70°	527.0	257.6	125.9	92.3	81.1	77.2	73.1	73.4	72.8	72.0	72.8
72°	264.6	168.3	106.3	80.0	72.0	69.3	67.6	66.5	66.5	65.3	65.7
72.5°	227.7	156.5	102.5	77.2	69.8	67.6	66.0	64.9	64.6	63.9	64.1
75°	151.8	124.1	85.6	64.6	59.4	57.9	58.7	57.6	57.9	57.2	57.6
77.5°	122.6	106.7	72.8	54.6	50.9	48.7	50.1	50.6	51.4	50.6	50.1
80°	102.5	90.8	60.8	45.0	42.4	40.7	41.3	43.9	44.2	42.1	41.7
82.5°	66.5	73.1	48.0	35.0	32.5	31.7	33.5	36.2	36.9	34.0	33.1
85°	55.8	58.7	34.7	24.0	21.4	20.8	24.3	26.9	28.7	25.8	25.2
87.5°	15.5	28.7	17.0	11.5	9.6	9.6	11.8	14.1	16.6	17.0	17.0
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)