

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: P192979

Luminaire Tested: **GAN-AF-01-LED-U-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL4-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA 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: 4627.1 lumens
Efficiency: N/A
Efficacy: 105.2 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

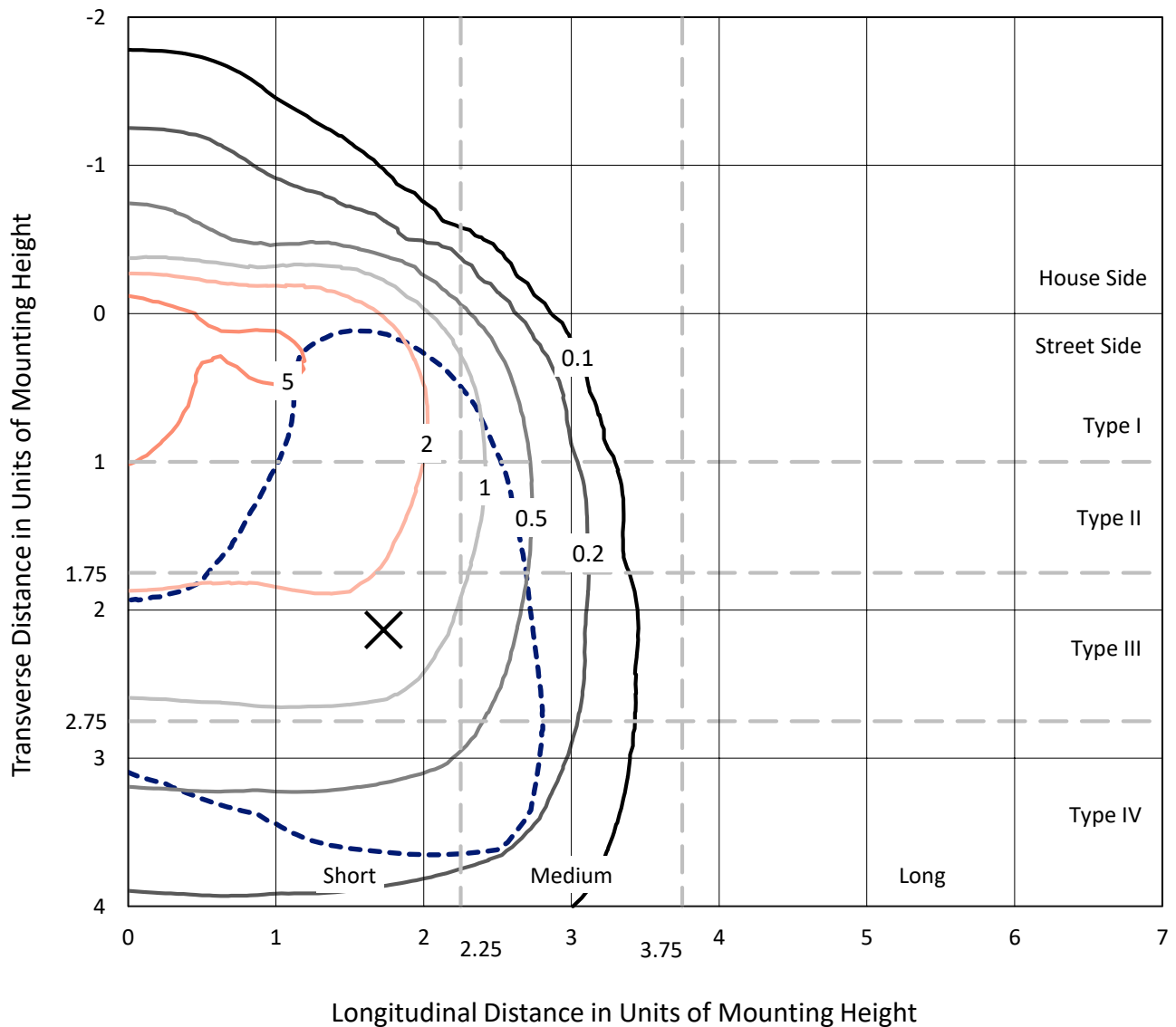
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

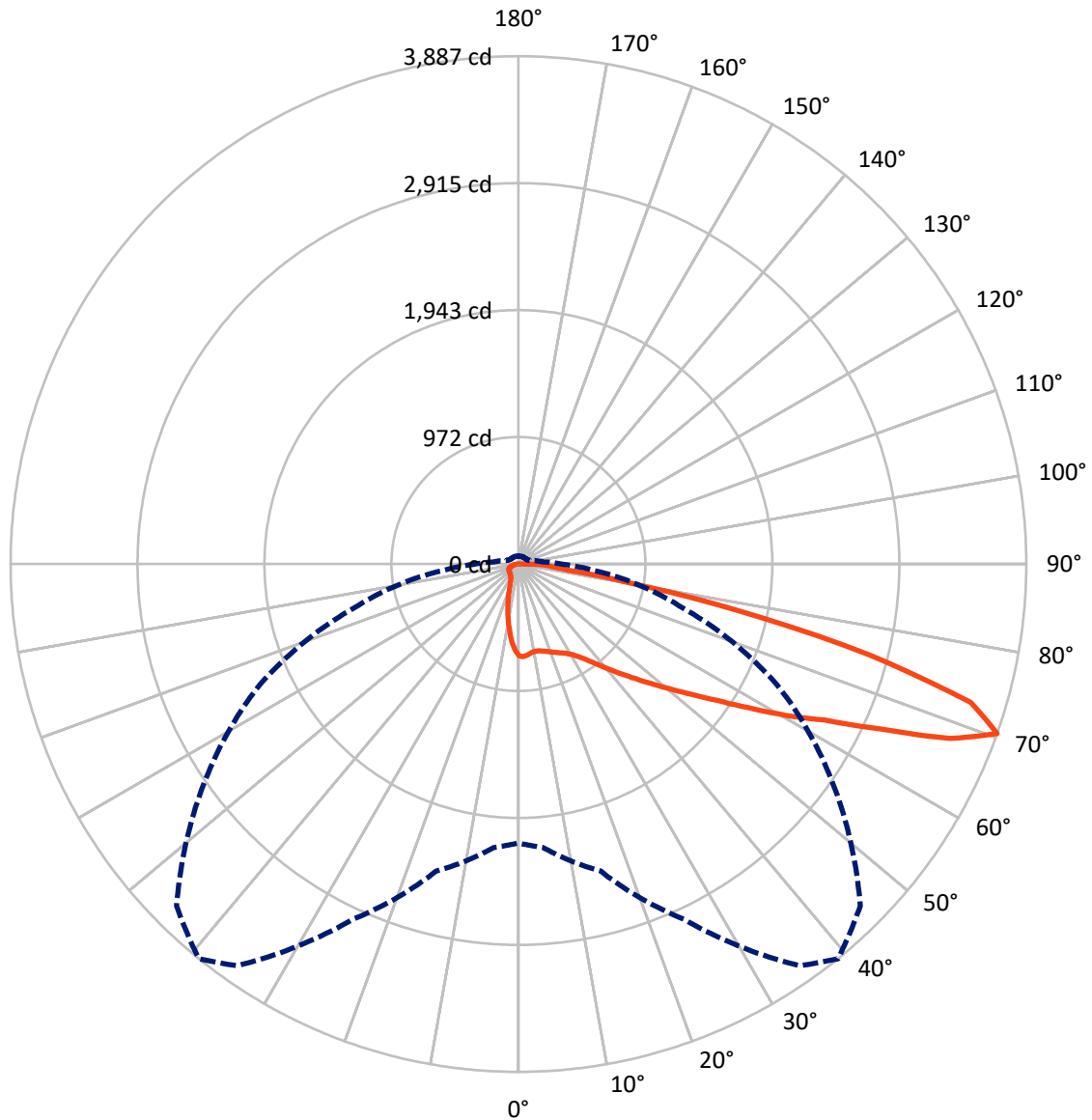
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.2	0.0	526.2
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	4100.9	0.0	4100.9
	% Fixture	88.6	0.0	88.6
Total	Lumens	4627.1	0.0	4627.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.3	1.3
10°-20°	150.7	3.3
20°-30°	234.6	5.1
30°-40°	365.5	7.9
40°-50°	613.6	13.3
50°-60°	974.8	21.1
60°-70°	1300.3	28.1
70°-80°	785.2	17.0
80°-90°	142.1	3.1
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°	4627.1	100.0
0°-180°	4627.1	100.0



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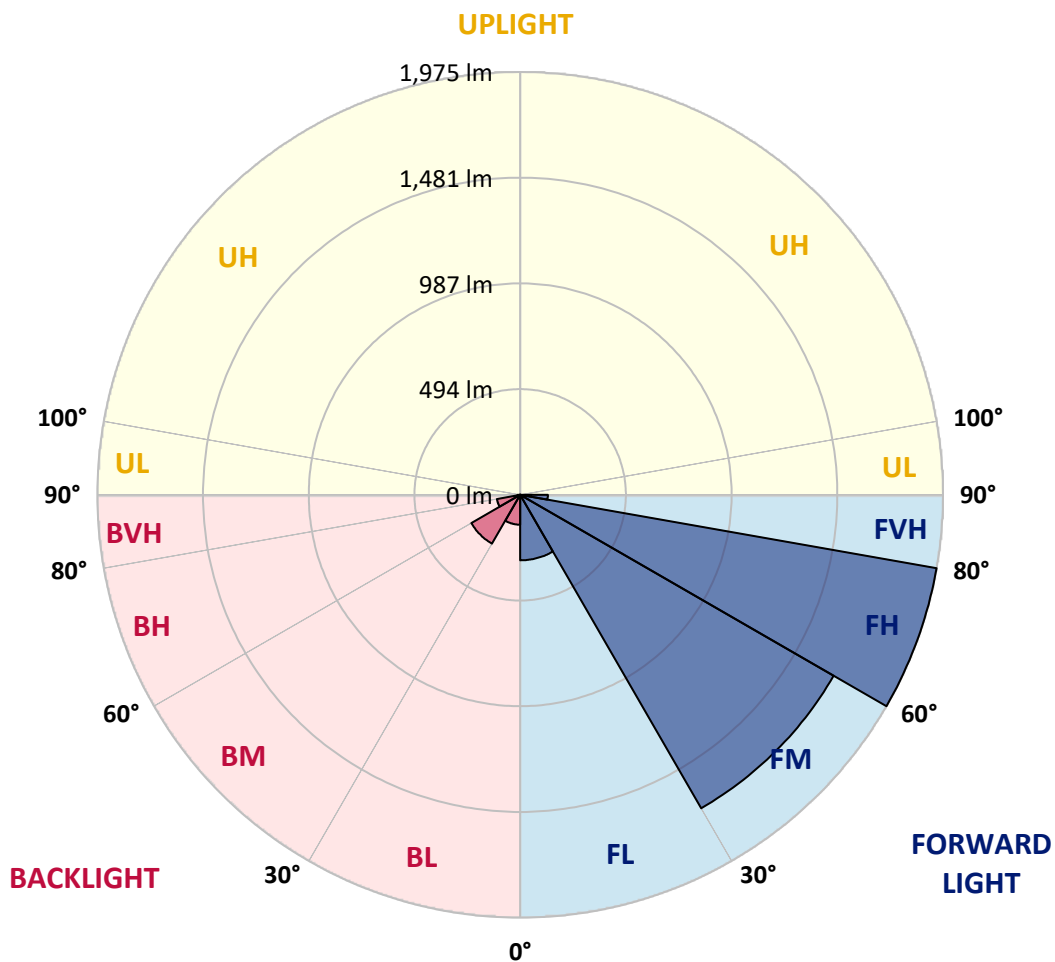
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.0	6.6			
FM (30°-60°)	1690.6	36.5			
FH (60°-80°)	1975.0	42.7			G2/5000
FVH (80°-90°)	129.3	2.8			G2/225
BL (0°-30°)	139.6	3.0	B1/500		
BM (30°-60°)	263.4	5.7	B1/1000		
BH (60°-80°)	110.5	2.4	B1/500		G1/500
BVH (80°-90°)	12.8	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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	716.0	715.8	714.0	712.6	711.4	710.9	712.0	708.3	705.3	701.6	697.5
5°	710.7	710.5	707.5	704.6	701.8	700.8	700.6	694.3	690.5	684.8	677.3
7.5°	704.8	703.6	699.7	694.9	690.0	687.7	685.3	677.1	672.8	667.1	658.5
10°	698.7	697.3	693.6	688.9	684.1	680.5	676.7	668.5	664.1	659.9	649.8
12.5°	692.3	691.2	690.2	688.2	684.8	681.8	678.7	671.8	667.1	662.2	650.5
15°	691.4	690.9	693.0	694.5	692.6	690.7	687.5	681.6	676.7	671.6	656.3
17.5°	698.9	698.7	704.0	707.9	706.9	703.6	699.1	692.6	688.6	684.4	665.3
20°	715.4	716.6	723.2	728.1	723.4	718.7	711.4	702.2	700.2	698.2	674.4
22.5°	746.5	747.7	752.4	754.2	742.0	735.2	725.1	713.3	712.0	713.3	685.5
25°	795.0	793.8	793.0	786.0	763.6	753.1	740.1	727.8	728.5	735.0	701.0
27.5°	859.1	852.8	842.9	821.7	786.2	774.4	758.7	747.5	751.9	764.2	724.4
30°	925.8	918.7	895.8	861.3	815.8	802.9	785.2	772.6	784.4	803.6	755.4
32.5°	987.3	986.4	953.1	908.6	856.8	845.5	827.8	813.6	832.5	861.9	802.0
35°	1054.7	1056.7	1016.7	963.3	912.1	900.3	887.6	876.8	902.2	942.7	869.4
37.5°	1126.7	1130.9	1083.7	1023.3	975.1	970.2	962.7	957.9	997.2	1053.3	963.8
40°	1222.8	1218.6	1153.0	1091.1	1052.5	1052.2	1050.0	1055.6	1121.0	1197.7	1085.0
42.5°	1325.9	1313.4	1226.7	1163.8	1137.5	1145.5	1150.2	1173.2	1269.9	1373.2	1232.8
45°	1437.0	1408.9	1303.0	1240.7	1231.8	1248.8	1264.6	1314.8	1445.2	1572.9	1394.5
47.5°	1525.6	1498.6	1382.1	1321.4	1340.9	1366.7	1397.4	1476.6	1641.4	1779.2	1554.3
50°	1595.5	1577.8	1461.9	1415.6	1461.2	1500.6	1551.1	1659.9	1845.6	1980.1	1702.3
52.5°	1663.3	1650.1	1542.3	1511.9	1602.3	1656.9	1725.3	1856.7	2054.9	2177.7	1826.7
55°	1724.4	1715.1	1628.9	1632.3	1768.4	1839.5	1925.5	2080.7	2283.2	2354.0	1932.1
57.5°	1793.4	1781.4	1727.7	1783.0	1981.8	2074.0	2186.0	2332.3	2497.2	2510.7	2012.3
60°	1862.8	1852.4	1837.3	1957.1	2252.8	2349.7	2455.8	2576.3	2714.3	2632.3	2007.6
62.5°	1923.0	1924.2	1950.8	2139.9	2518.2	2630.4	2759.8	2878.8	2910.7	2653.5	1859.3
65°	2025.1	2043.7	2122.9	2398.7	2891.8	3041.9	3200.6	3181.6	2965.2	2455.6	1540.9
67.5°	2146.5	2179.1	2339.8	2743.5	3363.9	3563.2	3624.5	3250.0	2747.6	1996.1	1098.4
70°	2134.3	2179.1	2433.4	3000.7	3753.0	3886.7	3700.3	2941.4	2181.8	1304.0	583.5
72.5°	1895.2	1959.4	2242.6	2882.8	3630.4	3618.6	3212.4	2192.9	1296.3	523.7	228.0
75°	1444.5	1509.4	1753.1	2277.5	2869.3	2770.6	2279.3	1211.3	491.8	207.9	143.7
77.5°	830.9	881.2	1069.4	1396.7	1820.4	1718.9	1268.7	538.7	239.5	144.9	112.2
80°	464.0	491.8	606.3	708.5	892.1	817.7	567.7	334.8	178.7	105.1	86.6
82.5°	366.8	391.7	490.2	447.0	407.4	376.0	326.0	298.1	142.8	66.3	51.8
85°	320.4	344.1	414.9	352.0	278.3	255.2	264.9	293.4	111.0	40.0	44.2
87.5°	296.8	328.7	369.9	271.3	216.7	192.0	244.4	321.6	35.7	24.9	17.9
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°	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4	702.4
2.5°	694.1	690.2	684.1	678.7	670.2	665.7	660.8	657.3	654.5	652.2	655.9
5°	672.6	665.5	652.6	638.7	622.2	609.3	598.5	588.4	581.4	576.6	579.9
7.5°	652.4	640.8	620.6	595.5	567.2	543.2	523.5	506.0	494.1	486.3	489.4
10°	640.8	626.5	595.3	555.7	514.1	476.6	445.6	418.8	400.2	389.6	391.2
12.5°	638.0	619.4	576.2	521.8	464.9	412.9	369.1	331.9	305.8	292.2	292.7
15°	640.1	616.3	558.2	489.4	417.4	351.7	297.0	252.0	221.6	206.1	205.9
17.5°	643.6	614.0	539.4	454.3	369.1	293.0	231.9	187.7	160.9	148.5	147.5
20°	647.5	610.2	518.2	416.4	319.0	238.3	181.6	147.1	130.1	123.3	122.8
22.5°	652.9	606.9	496.4	376.4	269.9	194.1	149.3	126.0	117.1	113.6	113.2
25°	661.6	605.3	473.1	334.8	225.6	162.4	130.1	115.7	110.6	108.1	107.9
27.5°	676.1	607.7	451.2	294.4	189.6	141.0	119.3	110.6	106.8	104.7	104.5
30°	694.9	614.9	428.2	256.0	161.6	126.3	112.6	107.1	104.1	101.8	101.8
32.5°	726.2	627.1	403.9	222.8	141.6	116.3	107.7	104.1	101.4	99.8	99.5
35°	772.4	650.2	381.4	195.2	127.3	108.9	103.5	100.7	98.8	97.9	97.9
37.5°	839.4	686.7	361.3	175.5	118.5	104.1	99.5	97.4	96.2	96.2	96.2
40°	929.5	737.1	345.2	162.4	113.6	100.4	96.4	94.8	94.1	94.3	94.3
42.5°	1040.8	802.4	334.4	153.2	111.2	98.4	94.3	93.0	92.3	92.0	92.3
45°	1167.6	876.8	333.1	146.3	108.9	96.9	93.0	91.6	90.1	89.1	89.1
47.5°	1290.8	952.3	342.7	144.0	106.3	95.3	91.8	90.3	88.2	86.1	86.1
50°	1399.7	1016.5	355.7	144.9	105.4	93.0	89.9	89.1	85.9	83.5	83.2
52.5°	1486.4	1066.0	366.2	147.7	106.3	91.2	87.5	87.7	84.2	81.6	81.4
55°	1555.8	1098.4	363.5	150.6	108.5	90.3	85.4	85.9	83.0	80.5	80.5
57.5°	1586.1	1086.4	332.1	148.3	110.2	90.5	83.8	85.7	83.2	81.0	81.0
60°	1520.9	979.8	273.5	137.8	107.9	89.9	83.0	86.6	86.4	84.0	83.8
62.5°	1323.7	789.1	212.2	122.6	100.7	86.4	81.2	86.4	88.9	88.2	88.0
65°	1020.3	562.0	162.1	106.1	90.8	80.5	76.3	81.0	84.4	85.4	85.1
67.5°	662.2	344.3	124.9	90.5	79.8	73.6	69.8	72.0	72.6	72.6	72.2
70°	325.6	185.4	99.5	76.3	68.5	66.3	64.3	63.1	61.8	60.9	60.9
72.5°	160.7	121.2	81.8	64.5	59.0	58.1	57.7	56.3	55.2	54.1	53.6
75°	118.8	98.6	69.6	54.3	50.8	49.8	50.8	49.6	49.3	48.5	48.0
77.5°	97.7	84.0	60.0	46.6	43.4	41.8	43.2	43.4	43.7	42.4	41.8
80°	79.3	71.0	50.1	38.6	35.7	34.6	35.5	37.3	37.9	35.7	34.9
82.5°	57.2	58.1	40.4	30.1	27.8	26.8	28.7	31.0	31.5	28.5	27.8
85°	48.0	48.5	31.0	21.5	19.0	17.6	20.6	23.1	24.7	21.7	21.0
87.5°	20.0	28.5	17.9	12.0	10.6	9.2	11.0	12.2	14.9	13.6	13.4
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)