

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: P322245

Luminaire Tested: **GAN-SA1C-740-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5397 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

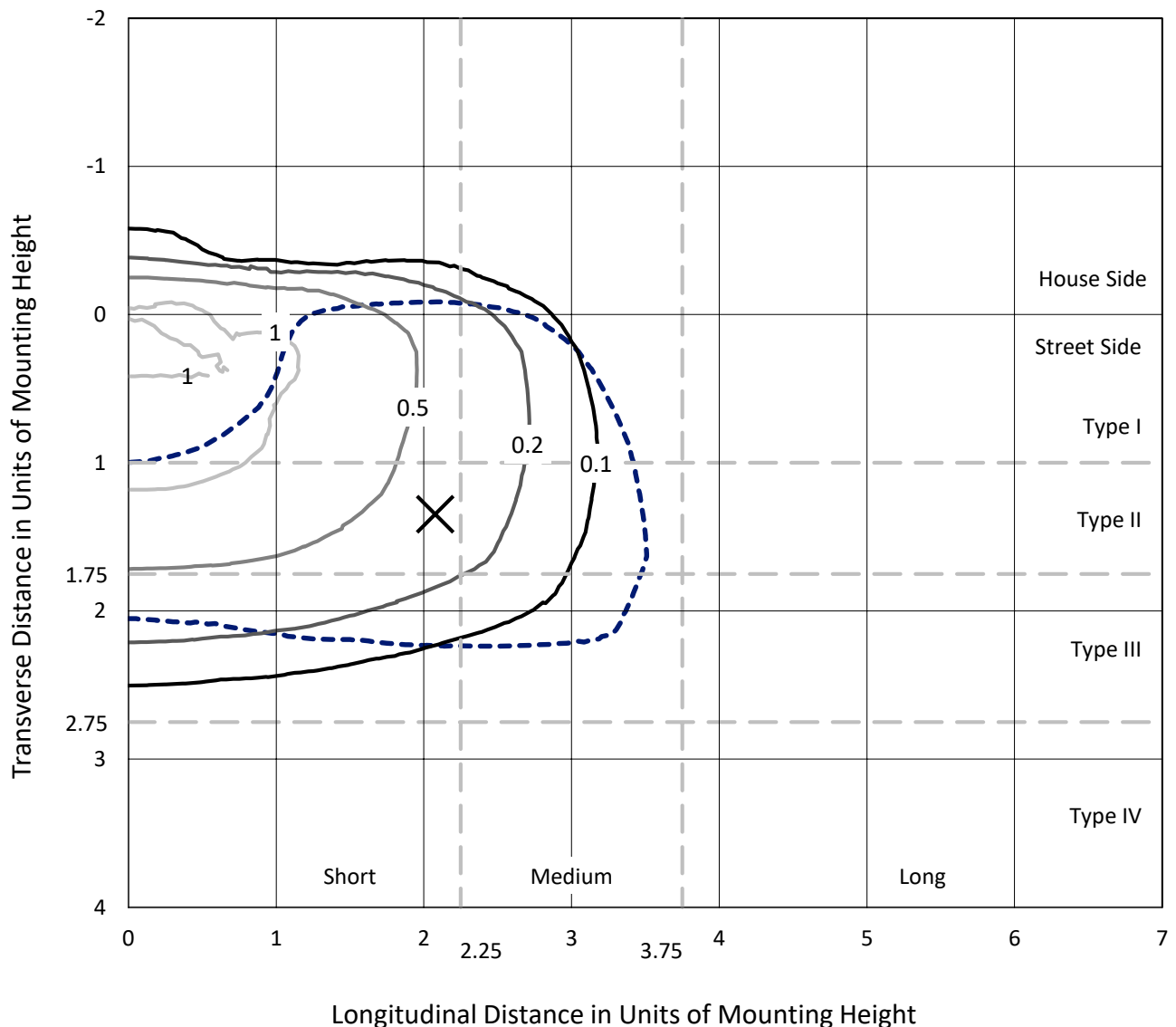
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

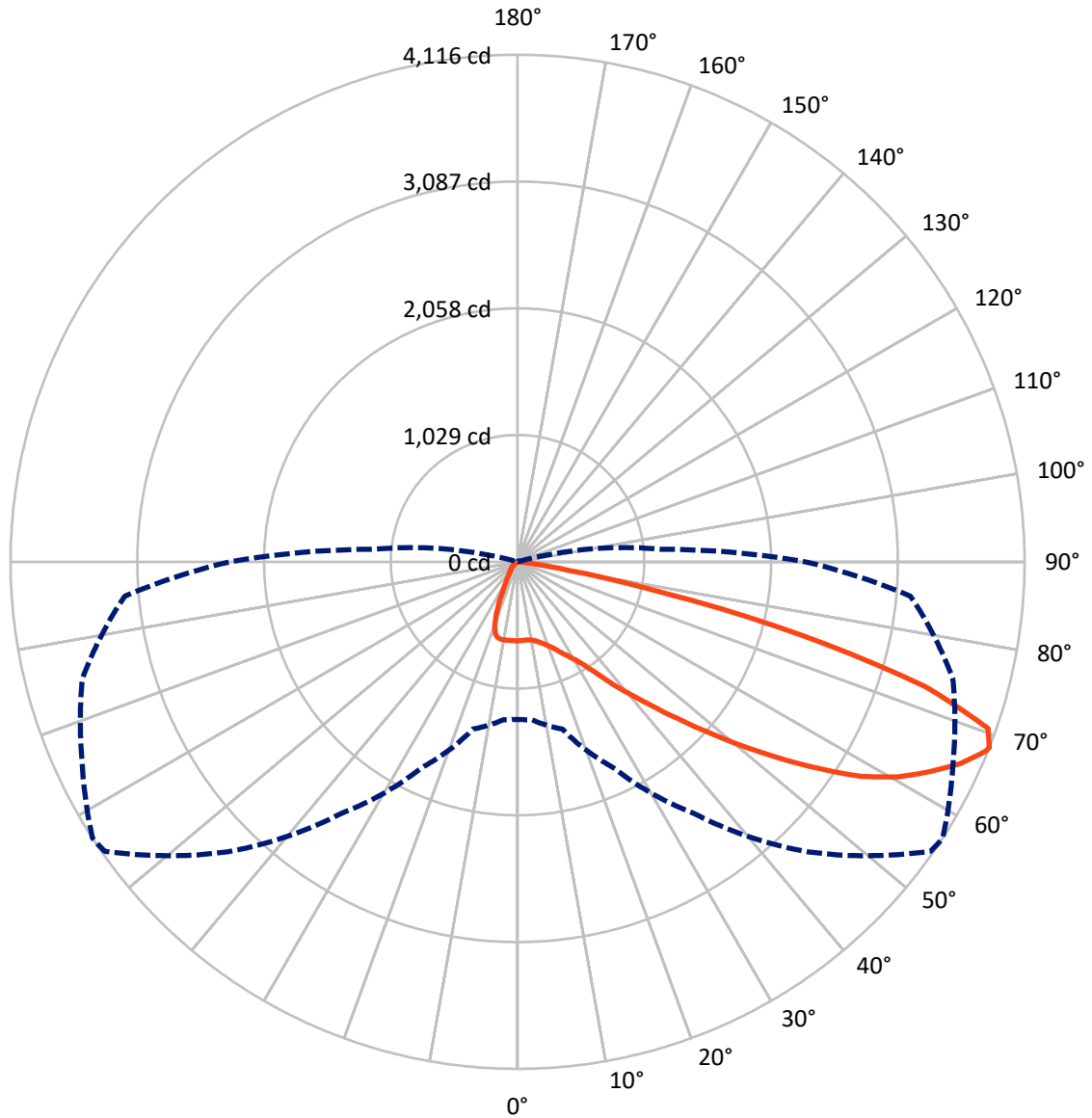
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	591.8	0.0	591.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4805.2	0.0	4805.2
	% Fixture	89.0	0.0	89.0
Total	Lumens	5397.0	0.0	5397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	1.1
10°-20°	166.3	3.1
20°-30°	286.9	5.3
30°-40°	495.2	9.2
40°-50°	847.0	15.7
50°-60°	1355.1	25.1
60°-70°	1565.7	29.0
70°-80°	598.3	11.1
80°-90°	22.4	0.4
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°	5397.0	100.0
0°-180°	5397.0	100.0

Coefficient of Utilization

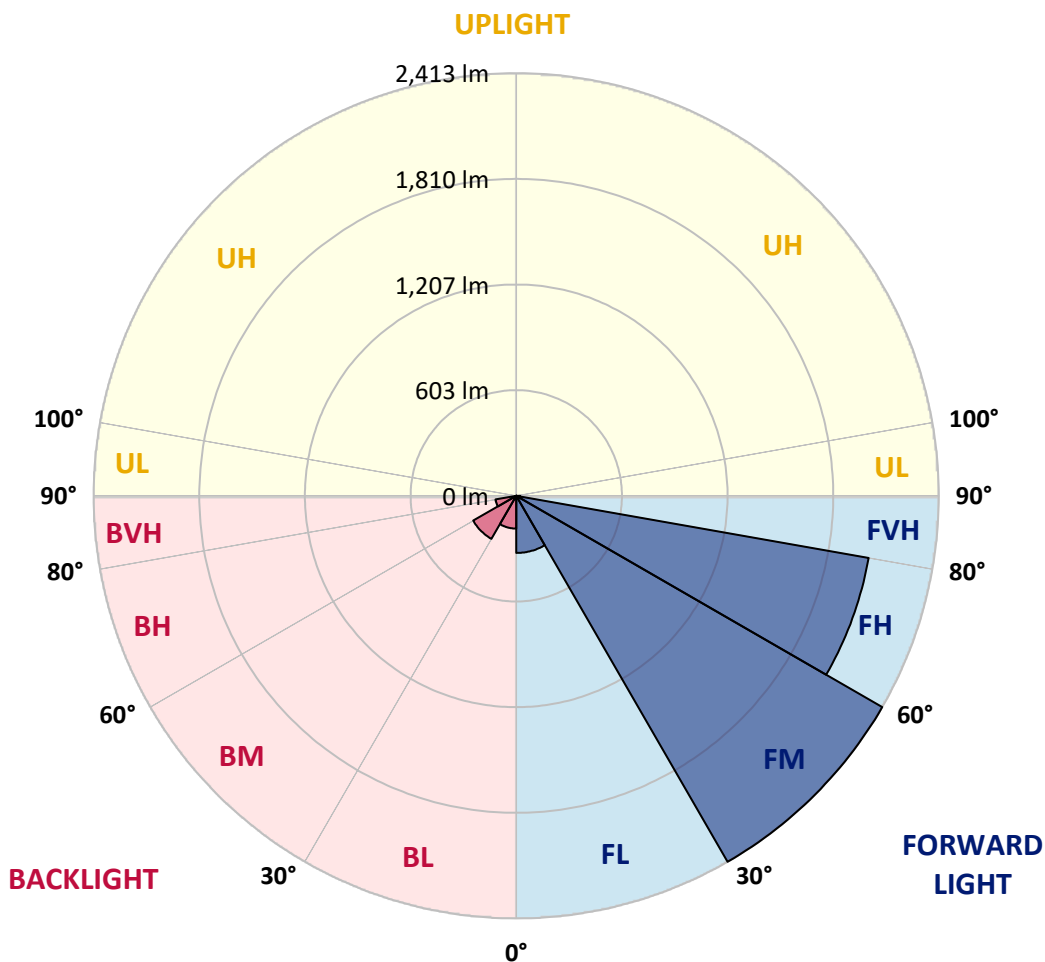


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.2	6.0			
FM (30°-60°)	2413.5	44.7			
FH (60°-80°)	2043.5	37.9			G2/5000
FVH (80°-90°)	22.0	0.4			G1/100
BL (0°-30°)	187.0	3.5	B1/500		
BM (30°-60°)	283.8	5.3	B1/1000		
BH (60°-80°)	120.5	2.2	B1/500		G1/500
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3
2.5°	626.2	629.1	631.1	632.4	633.9	637.2	638.2	639.8	640.5	640.5	642.3
5°	601.5	604.6	608.9	612.5	619.6	628.8	635.4	638.0	642.6	646.7	649.0
7.5°	578.5	582.1	587.2	595.6	607.9	622.7	636.5	640.0	649.0	657.6	662.0
10°	563.7	566.5	573.2	585.2	601.2	621.9	641.3	645.6	661.0	675.5	683.7
12.5°	558.6	561.2	568.1	581.6	601.5	625.7	652.5	658.9	681.4	702.6	714.0
15°	566.0	566.5	573.9	586.7	606.3	635.2	671.2	678.8	707.1	734.7	749.0
17.5°	594.6	592.3	596.1	601.8	617.3	647.7	690.8	702.3	740.1	772.5	786.0
20°	666.1	666.1	657.4	642.1	642.3	667.1	717.4	730.4	776.6	814.1	826.3
22.5°	788.3	786.0	768.6	731.1	696.7	700.5	749.8	766.6	820.5	860.5	864.6
25°	935.3	932.5	905.7	852.9	793.1	754.6	793.7	813.1	872.8	908.2	899.8
27.5°	1091.0	1088.7	1062.1	996.5	911.6	840.9	846.0	864.3	926.1	961.1	934.3
30°	1241.8	1242.5	1216.3	1148.9	1052.7	950.9	912.3	923.0	977.9	1013.4	975.1
32.5°	1385.2	1386.2	1363.5	1288.2	1198.4	1078.7	1004.2	1001.4	1038.1	1073.1	1029.2
35°	1513.1	1515.6	1500.0	1441.6	1346.4	1221.1	1123.4	1116.7	1123.6	1163.2	1112.1
37.5°	1636.3	1637.8	1626.1	1576.9	1497.2	1377.5	1273.9	1264.5	1249.7	1280.1	1221.6
40°	1771.3	1767.5	1754.0	1709.3	1640.9	1550.3	1435.7	1419.4	1393.6	1420.7	1365.6
42.5°	1896.9	1892.5	1894.8	1844.3	1786.6	1727.9	1624.3	1596.2	1581.2	1612.3	1542.1
45°	2053.8	2051.5	2059.2	2015.3	1968.6	1926.0	1840.5	1809.8	1803.2	1839.7	1755.7
47.5°	2208.7	2214.3	2238.1	2219.4	2200.5	2163.0	2069.4	2055.6	2059.7	2103.8	1981.1
50°	2337.8	2344.5	2409.6	2431.0	2458.3	2436.3	2342.4	2334.0	2350.1	2389.9	2223.5
52.5°	2431.2	2444.8	2525.7	2624.4	2724.0	2738.8	2645.1	2637.4	2659.1	2665.3	2410.8
55°	2496.1	2508.1	2599.7	2780.4	2983.0	3046.8	2988.6	2959.0	2954.9	2894.4	2607.8
57.5°	2507.5	2506.3	2638.0	2881.2	3186.1	3350.7	3314.0	3284.9	3201.2	3106.2	2833.7
60°	2442.7	2450.1	2603.0	2916.1	3313.7	3580.6	3583.5	3545.7	3415.3	3312.2	3052.6
62.5°	2243.2	2273.3	2427.7	2824.5	3312.2	3673.3	3781.0	3752.1	3596.2	3480.9	3274.7
65°	1919.6	1930.3	2077.5	2510.6	3088.4	3634.5	3958.8	3948.1	3759.3	3644.7	3388.7
67.5°	1401.8	1378.6	1533.2	1977.0	2614.7	3408.4	4086.4	4100.0	3885.1	3678.4	3267.3
68°	1279.3	1286.2	1406.6	1845.1	2490.7	3328.5	4094.9	4115.5	3897.6	3656.4	3200.9
70°	762.5	775.8	883.2	1270.4	1894.8	2876.6	4004.0	4051.2	3823.1	3430.1	2768.6
72.5°	194.7	210.5	312.1	568.6	1082.3	2026.8	3380.1	3459.9	3319.3	2782.6	1869.1
75°	80.1	84.2	111.5	187.3	403.2	913.1	2227.9	2398.8	2301.1	1665.9	844.7
77.5°	55.4	58.2	71.7	103.9	174.6	309.6	1092.2	1215.8	1095.3	568.6	184.3
80°	39.8	42.1	51.3	69.2	100.3	110.5	356.0	411.6	326.9	124.8	45.7
82.5°	23.7	25.5	38.3	49.3	61.0	52.8	88.6	100.5	94.7	62.0	20.4
85°	11.7	13.8	25.8	35.2	32.9	22.2	27.1	30.1	37.3	37.8	11.0
87.5°	0.8	1.5	15.1	21.2	9.2	5.1	7.9	9.7	13.3	18.6	4.6
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°	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3	641.3
2.5°	643.1	643.3	641.6	640.8	641.3	638.2	637.0	637.5	637.5	638.2	637.0
5°	649.5	649.5	646.4	642.3	640.0	634.2	630.3	629.3	628.5	628.0	627.0
7.5°	663.3	661.7	656.4	647.4	639.8	627.0	617.3	612.2	609.7	608.6	607.9
10°	685.5	682.6	673.7	657.1	639.5	616.8	595.6	580.6	568.1	563.0	559.9
12.5°	715.3	711.2	696.2	668.6	637.7	595.9	549.9	505.8	464.7	447.9	439.4
15°	749.8	743.9	720.2	678.3	627.3	548.7	448.9	371.6	314.7	293.2	284.0
17.5°	784.7	777.1	741.1	684.4	595.9	450.9	314.9	237.8	199.8	189.6	186.0
20°	819.9	808.7	759.2	679.8	524.9	325.1	207.7	173.8	162.8	159.8	158.7
22.5°	853.4	836.0	775.5	662.0	415.7	218.2	164.3	153.6	150.1	148.3	147.8
25°	882.5	858.2	789.8	606.9	294.2	164.9	148.0	144.4	139.8	136.5	136.8
27.5°	909.8	880.4	798.5	516.0	196.2	140.9	137.0	132.2	123.8	118.9	118.9
30°	942.7	910.0	804.9	397.1	144.4	124.5	121.5	114.1	102.6	96.2	96.2
32.5°	992.2	954.9	800.8	278.7	119.7	109.5	102.3	92.1	79.6	73.5	73.2
35°	1068.0	1024.4	771.7	182.7	105.7	95.2	83.7	71.2	60.2	55.1	54.9
37.5°	1170.1	1117.2	706.4	130.7	94.7	81.9	68.1	54.4	46.2	42.9	42.6
40°	1302.5	1225.2	613.0	105.9	84.5	69.2	52.6	42.1	36.5	33.9	34.2
42.5°	1461.5	1340.8	500.9	91.4	74.5	56.9	41.1	33.2	29.6	27.8	27.3
45°	1638.1	1454.9	383.6	81.4	64.6	45.9	32.2	26.3	23.5	22.5	22.5
47.5°	1832.3	1565.9	280.7	72.7	53.8	35.5	25.8	21.4	19.1	18.4	18.1
50°	2008.6	1642.9	202.4	63.5	44.1	28.1	20.9	17.9	16.3	15.3	15.3
52.5°	2155.6	1667.2	149.0	53.6	35.7	22.5	17.4	15.3	13.8	13.0	13.0
55°	2285.0	1657.2	110.8	44.1	28.8	18.4	14.8	13.0	11.7	11.0	11.0
57.5°	2409.0	1625.1	82.7	36.0	23.2	14.8	12.5	11.0	9.7	9.2	9.2
60°	2510.4	1571.5	61.5	29.1	18.6	12.0	10.5	8.9	7.9	7.1	7.1
62.5°	2592.5	1512.3	45.2	24.0	14.8	9.4	8.2	7.4	5.9	5.1	5.1
65°	2593.0	1414.0	33.9	19.9	11.5	7.4	6.1	5.9	3.8	3.1	2.8
67.5°	2405.5	1219.1	26.0	17.1	8.9	5.6	4.6	4.8	2.0	1.3	1.0
68°	2337.3	1169.6	24.5	16.8	8.4	5.4	4.3	4.8	1.8	1.0	0.8
70°	1970.6	930.4	19.7	16.3	7.4	4.1	3.6	4.8	1.5	0.8	0.5
72.5°	1260.4	540.0	14.5	13.0	5.6	3.1	2.3	4.3	1.5	0.5	0.3
75°	536.4	167.4	10.0	9.2	3.3	2.3	1.5	2.8	1.0	0.3	0.0
77.5°	113.1	37.8	5.9	5.6	2.3	1.5	1.0	0.8	0.3	0.0	0.0
80°	29.1	11.0	3.1	2.8	1.3	0.8	0.5	0.0	0.0	0.0	0.0
82.5°	9.2	4.3	1.8	1.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.6	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)