

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: P299995

Luminaire Tested: **GAA-AF-01-LED-U-SL3-7030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194479)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-01-LED-U-SL3-7030-600-HSS  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI  
3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III w/Spill  
Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3081.9 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 34  
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

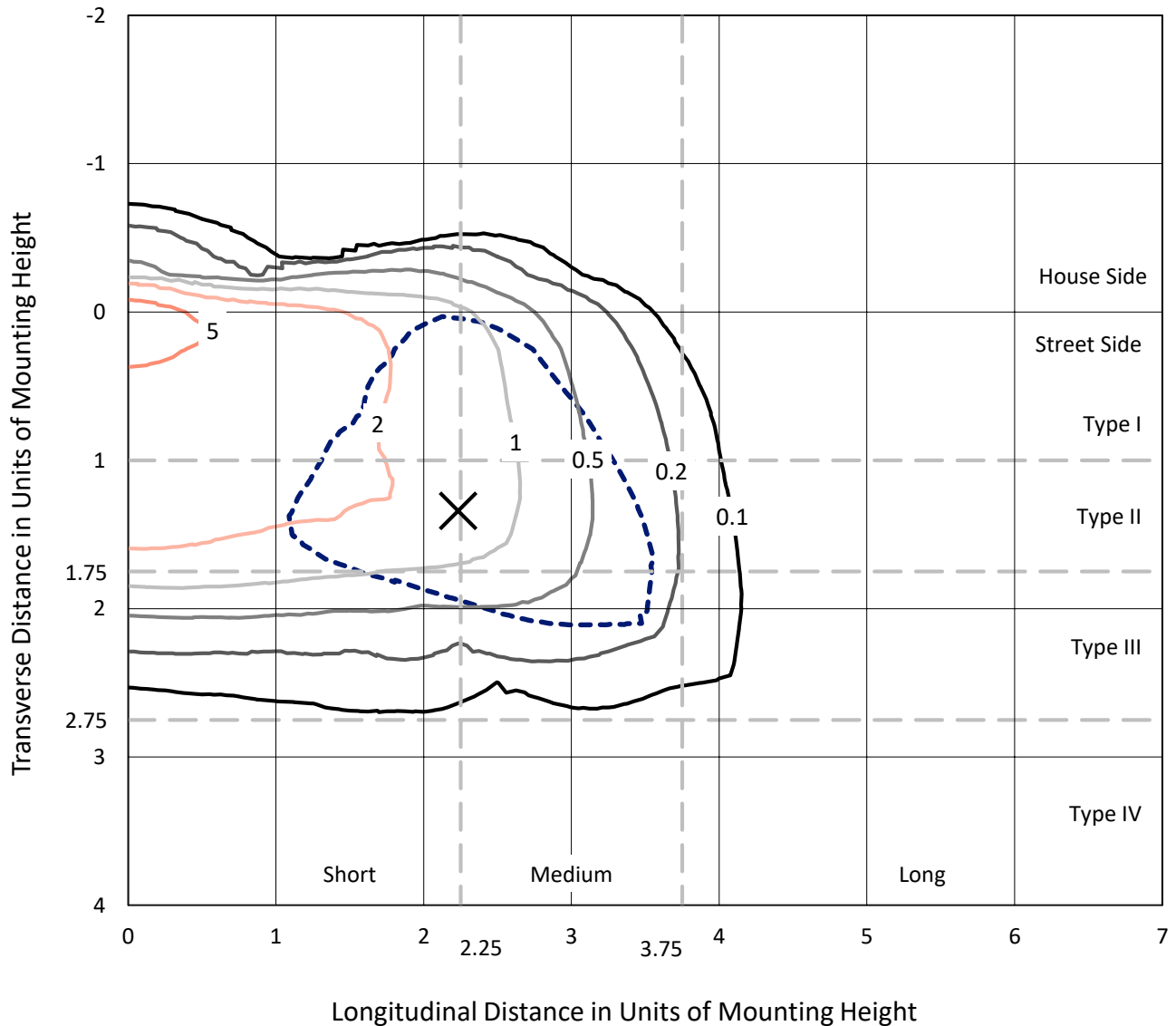


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

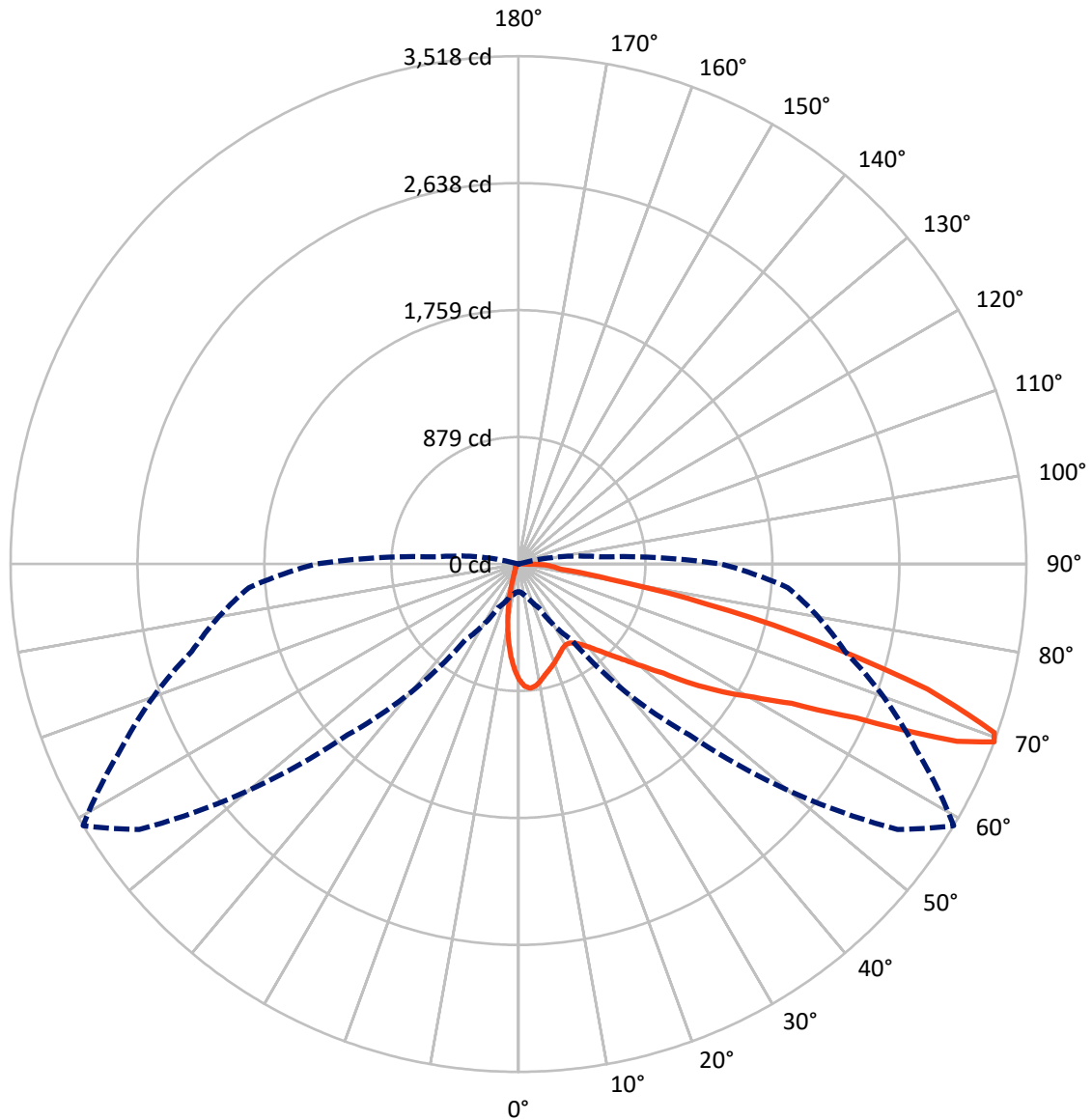


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	251.0	0.0	251.0
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	2830.9	0.0	2830.9
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	3081.9	0.0	3081.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	2.1
10°-20°	134.5	4.4
20°-30°	181.0	5.9
30°-40°	262.9	8.5
40°-50°	437.7	14.2
50°-60°	682.8	22.2
60°-70°	844.9	27.4
70°-80°	428.2	13.9
80°-90°	44.8	1.5
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°	3081.9	100.0
0°-180°	3081.9	100.0

**Coefficient of Utilization**



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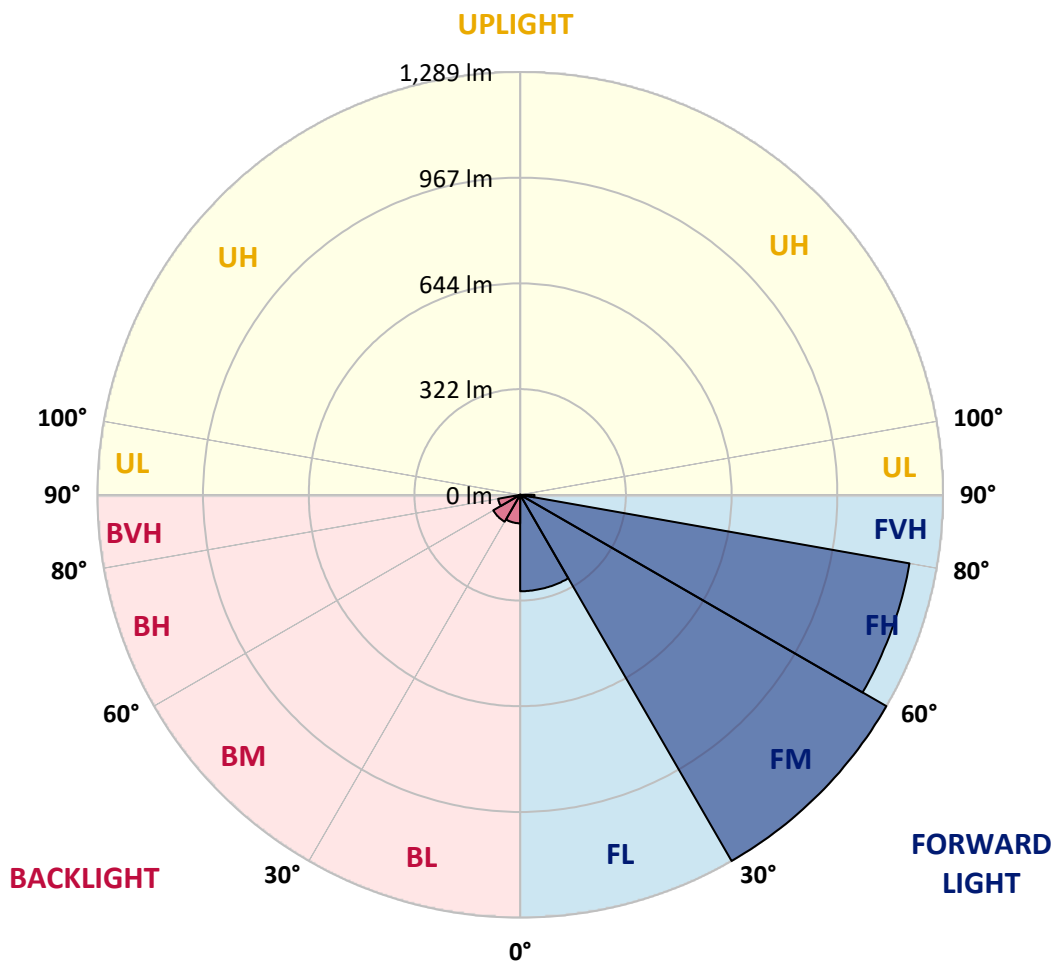
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.8	9.5			
FM	(30°-60°)	1288.8	41.8			
FH	(60°-80°)	1204.9	39.1			G1/1800
FVH	(80°-90°)	43.4	1.4			G1/100
BL	(0°-30°)	86.9	2.8	B0/110		
BM	(30°-60°)	94.6	3.1	B0/220		
BH	(60°-80°)	68.2	2.2	B0/110		G0/110
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2
2.5°	879.2	878.9	875.0	873.3	870.1	863.5	853.2	847.8	839.1	823.9	803.6
5°	871.2	875.4	877.6	877.8	880.1	877.6	868.4	863.9	851.9	827.4	790.9
7.5°	816.8	818.4	824.8	830.4	841.2	851.5	854.8	852.9	845.7	819.6	771.0
10°	758.6	760.2	767.9	775.1	789.8	805.6	822.4	825.9	828.9	808.4	751.8
12.5°	708.4	710.0	717.8	727.4	744.5	764.0	790.0	795.7	808.8	797.8	736.5
15°	665.2	665.9	673.6	685.4	705.8	730.9	760.4	769.6	789.7	790.3	723.1
17.5°	628.4	630.1	634.9	646.2	668.5	699.5	733.9	747.1	770.6	784.1	710.0
20°	605.9	607.7	607.5	613.8	633.8	666.9	707.4	723.2	751.8	777.6	698.3
22.5°	601.6	601.6	597.1	596.2	608.0	635.7	679.9	699.2	734.9	774.8	690.1
25°	617.1	616.4	605.1	595.9	596.4	612.9	653.2	676.2	720.6	776.7	685.8
27.5°	649.9	649.0	634.7	617.1	603.0	602.8	632.9	657.7	709.3	785.8	687.5
30°	695.2	694.8	679.3	657.2	631.6	608.0	626.0	648.5	702.0	802.2	691.5
32.5°	744.6	744.1	732.5	709.1	676.7	631.6	633.3	652.2	704.1	823.9	701.3
35°	797.1	796.2	791.2	770.8	735.1	674.9	657.4	672.0	717.3	856.6	720.4
37.5°	853.9	854.8	858.5	838.9	801.5	735.8	697.6	707.6	744.0	900.8	751.6
40°	937.8	937.6	938.8	913.2	877.1	810.2	753.9	757.0	788.6	959.5	799.0
42.5°	1089.9	1079.3	1047.0	994.7	958.5	895.2	824.8	821.5	843.2	1032.2	865.4
45°	1294.3	1271.6	1188.0	1087.8	1041.4	991.1	912.1	901.5	915.3	1119.5	947.4
47.5°	1470.1	1446.6	1328.3	1184.7	1129.4	1082.1	1014.4	995.3	999.8	1217.3	1051.2
50°	1529.9	1518.4	1415.1	1269.1	1214.7	1196.6	1133.1	1109.8	1103.3	1330.4	1171.6
52.5°	1509.2	1508.3	1439.5	1323.8	1292.7	1315.1	1282.5	1255.4	1231.8	1449.6	1294.1
55°	1475.9	1480.3	1449.4	1371.7	1370.6	1423.3	1486.7	1464.2	1395.6	1579.1	1399.8
57.5°	1384.1	1402.7	1443.9	1462.3	1505.2	1559.0	1656.8	1670.1	1588.9	1678.2	1487.4
60°	1123.0	1164.0	1298.5	1475.4	1678.6	1812.8	1862.1	1873.4	1747.4	1760.7	1605.7
62.5°	797.1	838.9	1009.6	1308.8	1681.2	2146.1	2167.9	2123.5	1922.1	1882.9	1809.8
65°	423.1	455.4	594.8	944.7	1457.6	2223.5	2702.8	2570.4	2230.1	2123.1	2073.5
67.5°	216.4	226.2	281.6	462.4	1002.1	1975.0	3182.2	3275.4	2761.1	2361.6	2060.8
69°	191.5	197.3	234.1	334.3	641.7	1672.9	3205.6	3517.5	3039.2	2341.7	1872.7
70°	185.4	190.5	223.9	302.5	501.6	1402.9	3116.1	3496.2	3110.2	2266.1	1732.3
72.5°	157.4	161.7	199.4	267.4	407.6	696.4	2531.3	2962.6	2791.0	1887.7	1253.9
75°	105.3	119.6	191.4	250.6	379.2	395.6	1668.8	2140.9	1988.8	1273.2	653.2
77.5°	25.3	27.2	54.0	199.4	346.8	348.2	858.3	1330.9	1085.5	453.8	154.4
80°	13.6	13.1	15.1	39.6	322.9	326.8	386.4	646.0	387.6	75.3	50.9
82.5°	9.6	9.1	9.8	16.6	101.6	297.6	279.5	292.4	160.7	28.9	22.8
85°	3.5	3.3	5.4	15.0	31.9	171.1	287.2	241.2	130.2	13.2	16.7
87.5°	1.2	1.1	2.1	8.2	9.8	72.9	177.2	182.3	51.2	8.0	7.9
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°	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2	802.2
2.5°	795.0	784.2	764.4	744.0	725.1	702.5	691.1	680.0	675.3	673.6	665.4
5°	772.0	753.7	711.6	669.2	630.1	588.7	561.3	539.4	526.5	520.2	510.3
7.5°	742.6	712.6	648.6	583.3	522.5	462.5	418.1	383.9	360.4	349.1	338.8
10°	714.0	674.1	583.1	494.1	411.4	332.0	270.6	226.2	197.8	184.7	176.4
12.5°	688.4	636.6	519.9	407.1	303.4	210.4	147.9	112.6	95.0	88.9	85.9
15°	665.6	602.1	460.1	324.5	205.5	120.2	80.9	68.9	66.1	66.1	65.7
17.5°	643.9	568.3	402.4	246.9	129.0	73.6	61.5	59.9	59.9	60.6	60.6
20°	623.2	536.1	346.6	177.2	81.2	58.4	55.6	55.2	55.6	56.5	56.5
22.5°	605.4	506.8	294.5	121.6	60.3	52.6	51.2	50.7	50.9	51.4	51.8
25°	592.2	482.0	245.4	82.4	51.9	47.9	46.4	45.5	44.8	44.8	45.1
27.5°	583.8	461.1	197.8	59.9	46.7	43.6	41.1	39.7	38.1	37.3	37.6
30°	577.7	441.3	153.2	49.0	41.8	38.7	35.6	33.3	31.0	30.0	30.3
32.5°	575.4	425.2	114.5	43.2	37.5	34.0	30.1	27.2	24.7	23.8	24.1
35°	581.6	412.5	83.8	39.0	34.0	29.6	25.3	21.9	20.0	19.5	19.7
37.5°	597.6	405.7	62.7	35.6	30.9	26.0	21.1	17.9	16.7	16.7	16.9
40°	627.9	405.5	50.4	33.1	28.1	22.5	17.4	15.1	14.5	14.8	15.0
42.5°	672.1	414.8	43.9	30.9	25.6	19.2	14.5	12.9	12.7	13.1	13.2
45°	732.6	431.7	40.4	28.9	23.0	16.0	12.2	11.1	11.1	11.7	11.9
47.5°	806.7	456.4	37.5	27.0	20.4	13.4	10.4	9.8	9.9	10.4	10.6
50°	895.9	487.6	34.5	24.9	18.5	11.1	9.1	8.5	8.7	9.4	9.6
52.5°	997.5	529.6	32.1	23.0	16.0	9.2	7.7	7.3	7.7	8.4	8.5
55°	1084.7	567.3	29.1	21.4	12.9	7.7	6.3	6.3	6.6	7.5	7.7
57.5°	1168.5	606.6	26.5	18.5	10.1	6.1	5.2	5.4	5.9	6.8	7.0
60°	1291.5	673.4	23.4	15.5	7.7	4.9	4.4	4.5	5.2	6.1	6.3
62.5°	1500.5	775.0	20.2	12.9	5.9	3.9	3.5	3.9	4.7	5.8	5.9
65°	1689.1	816.3	16.6	10.8	4.5	3.0	3.0	3.5	4.5	5.6	5.8
67.5°	1583.9	687.1	12.9	8.5	3.5	2.3	2.4	3.3	4.4	5.6	5.8
69°	1400.8	561.9	11.0	6.8	3.0	2.1	2.3	3.3	4.4	5.4	5.6
70°	1258.1	474.4	9.8	5.8	2.6	2.1	2.3	3.1	4.4	5.4	5.6
72.5°	842.6	256.2	7.9	4.2	2.4	1.9	1.9	3.1	4.2	5.2	5.4
75°	362.1	70.8	6.3	3.0	2.1	1.7	1.7	3.0	4.0	5.1	5.4
77.5°	66.2	17.9	5.1	2.6	2.1	1.7	1.6	2.8	3.9	4.9	5.1
80°	26.3	8.9	4.0	2.3	1.9	1.6	1.4	2.6	3.6	4.7	4.9
82.5°	15.9	5.1	3.3	2.1	1.9	1.4	1.2	2.3	3.5	4.5	4.7
85°	12.9	3.5	2.6	2.1	1.7	1.4	1.1	2.1	3.1	4.4	4.5
87.5°	6.3	2.4	2.4	1.9	1.7	1.4	1.1	1.9	3.0	4.2	4.4
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)