

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: McGRAW-EDISON

Report Number: P382716

Luminaire Tested: **GLEON-SA1A-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3764.4 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

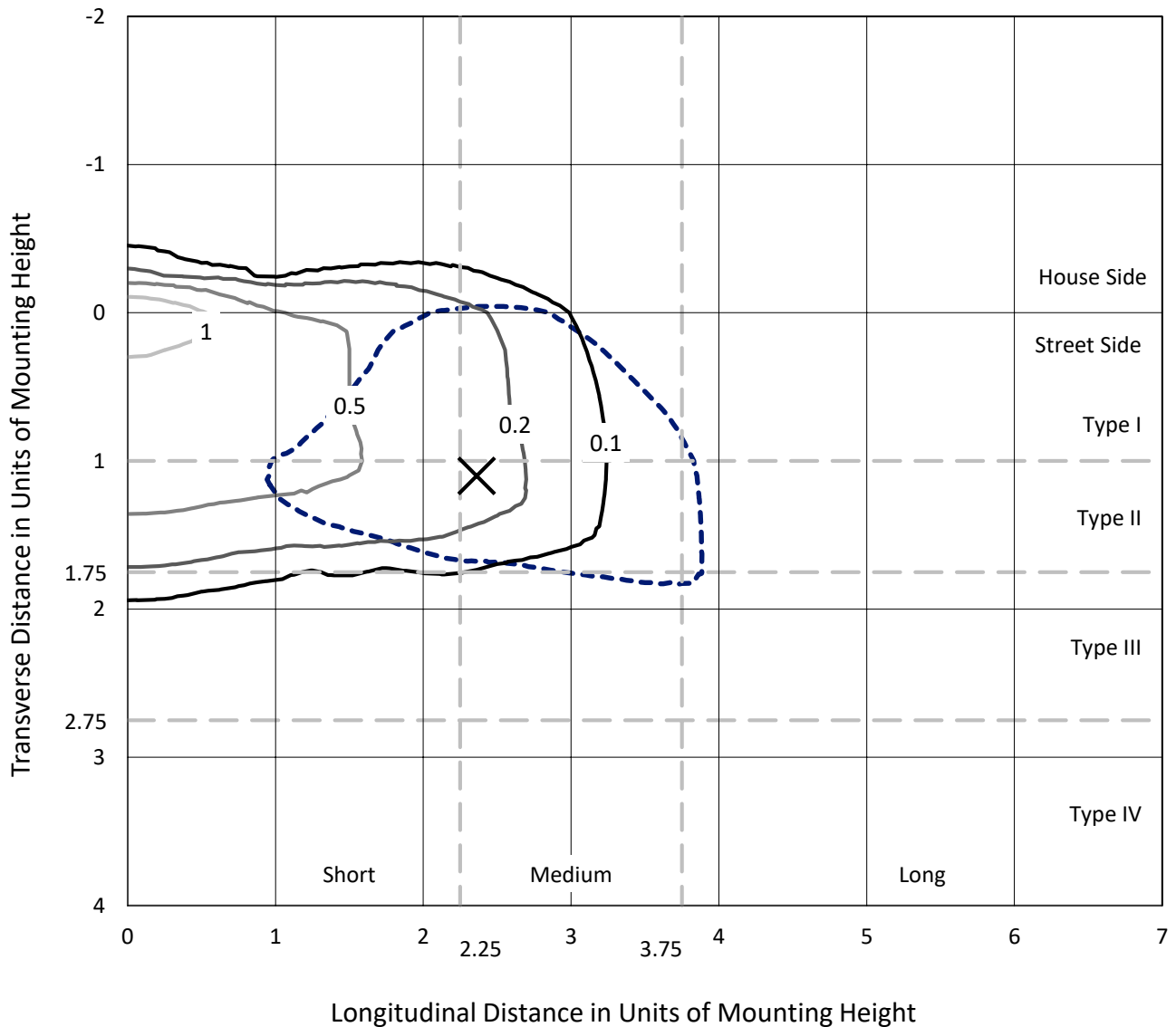
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

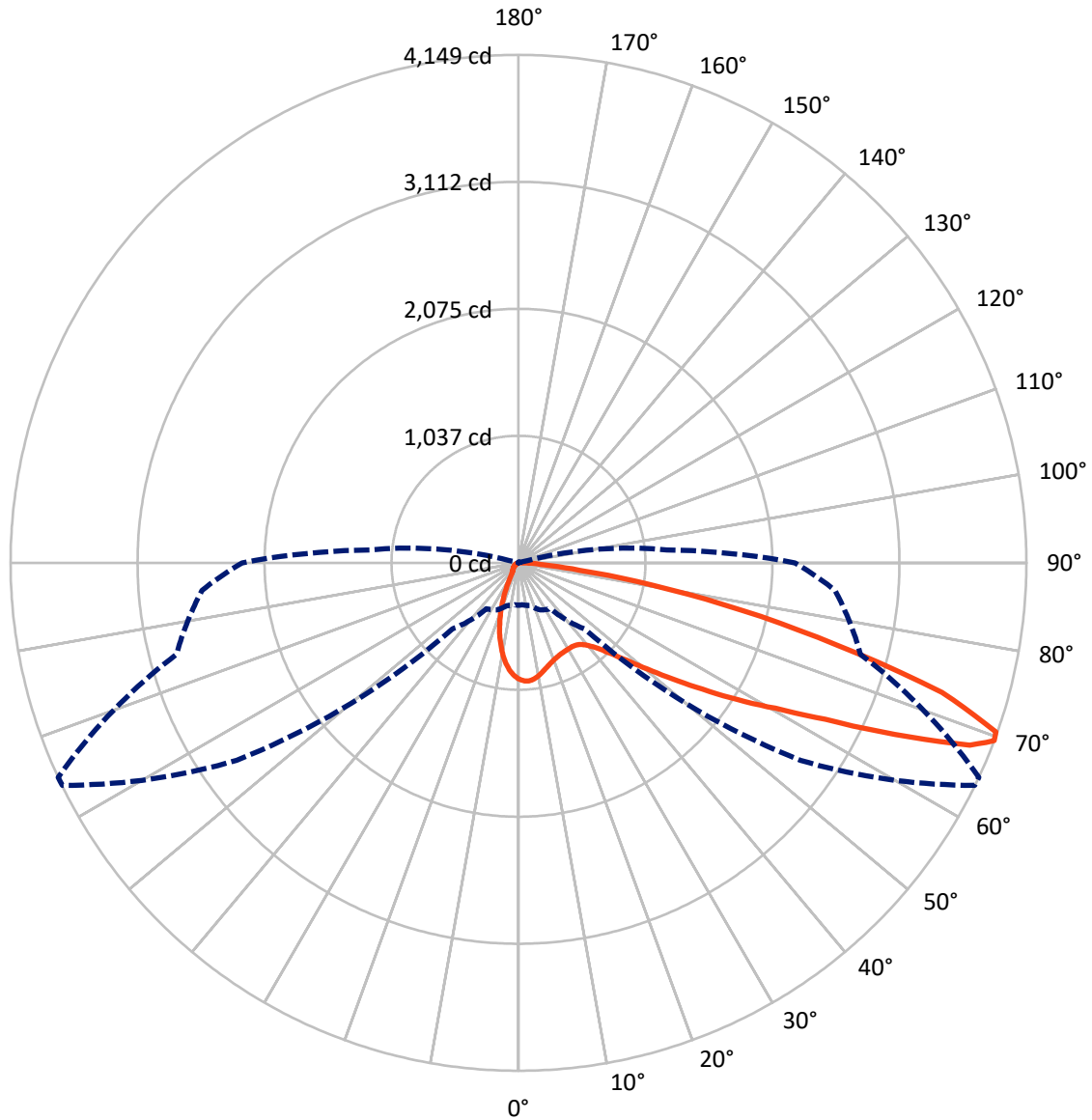
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	443.7	0.0	443.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3320.7	0.0	3320.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3764.4	0.0	3764.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	2.1
10°-20°	174.1	4.6
20°-30°	241.2	6.4
30°-40°	336.3	8.9
40°-50°	522.7	13.9
50°-60°	839.1	22.3
60°-70°	949.2	25.2
70°-80°	557.5	14.8
80°-90°	64.9	1.7
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°	3764.4	100.0
0°-180°	3764.4	100.0

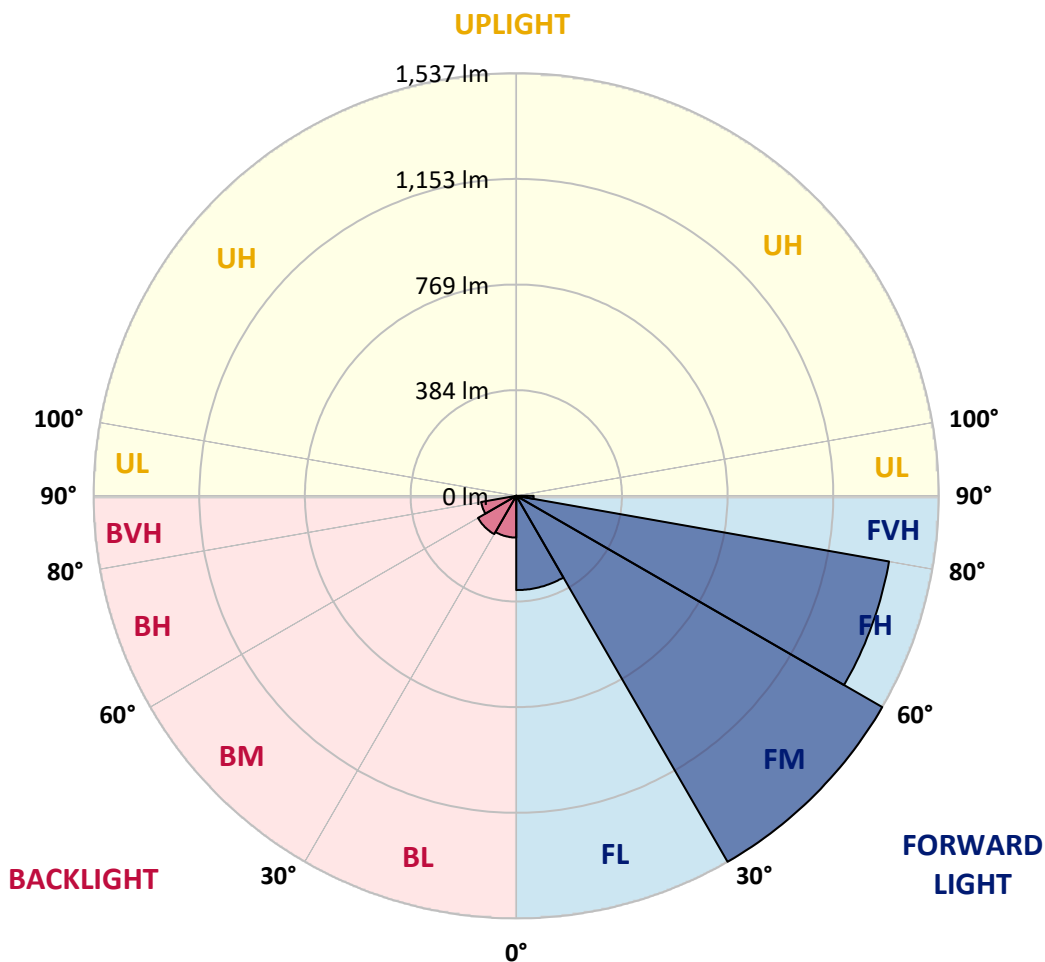


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.0	9.1			
FM (30°-60°)	1537.3	40.8			
FH (60°-80°)	1377.0	36.6			G1/1800
FVH (80°-90°)	63.4	1.7			G1/100
BL (0°-30°)	151.8	4.0	B1/500		
BM (30°-60°)	160.8	4.3	B0/220		
BH (60°-80°)	129.6	3.4	B1/500		G1/500
BVH (80°-90°)	1.5	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-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	959.7	957.4	959.2	963.4	965.5	965.5	967.0	965.1	965.7	961.2	954.5
5°	899.7	896.0	901.3	912.9	927.2	939.5	957.6	967.2	968.2	968.3	960.5
7.5°	834.9	831.7	839.4	853.1	871.6	894.4	926.1	953.8	955.4	970.4	964.6
10°	782.4	780.1	789.1	803.7	825.4	850.9	889.8	928.3	932.9	966.1	964.0
12.5°	740.7	738.8	747.4	764.2	786.4	814.6	855.3	900.0	906.2	956.3	960.8
15°	710.3	709.9	717.1	733.3	757.9	784.2	825.7	873.7	880.9	945.9	960.3
17.5°	694.4	694.8	700.1	713.9	735.0	761.1	800.9	851.5	859.4	936.5	962.8
20°	692.7	693.3	696.1	703.9	720.9	744.0	780.6	832.9	841.0	929.4	966.6
22.5°	706.8	706.5	707.2	706.5	716.0	733.5	767.3	818.6	828.0	924.8	969.6
25°	733.7	733.2	732.8	727.0	720.6	730.1	761.7	810.4	819.4	921.5	971.3
27.5°	771.1	770.8	770.3	760.6	741.5	735.5	762.4	807.5	814.9	918.8	971.0
30°	820.3	822.6	821.9	808.4	778.6	752.6	769.1	805.9	812.4	913.5	967.7
32.5°	878.2	882.6	886.1	871.6	834.4	786.4	784.5	807.6	812.4	909.6	961.6
35°	938.2	943.9	956.9	951.8	902.7	837.2	811.1	818.1	822.1	911.8	958.7
37.5°	997.3	1004.1	1032.2	1047.0	992.2	904.4	852.6	844.1	846.1	925.3	961.9
40°	1066.0	1076.3	1118.9	1142.7	1099.0	994.4	914.5	888.7	889.4	955.1	976.7
42.5°	1156.1	1166.8	1212.8	1250.2	1219.5	1108.2	998.6	956.9	956.0	1010.8	1011.7
45°	1266.0	1277.2	1324.8	1366.4	1352.5	1243.0	1106.2	1056.4	1055.4	1098.8	1077.7
47.5°	1390.6	1401.6	1444.1	1486.9	1501.9	1400.3	1243.4	1192.3	1190.1	1221.0	1179.8
50°	1497.5	1504.6	1543.9	1601.5	1669.1	1593.7	1414.0	1364.8	1362.4	1383.3	1329.7
52.5°	1536.3	1540.5	1580.3	1661.0	1829.6	1855.5	1638.1	1574.7	1573.0	1582.0	1529.3
55°	1457.7	1465.1	1514.0	1633.8	1916.6	2151.5	1921.0	1834.7	1821.5	1801.9	1738.0
57.5°	1243.2	1255.2	1307.7	1467.0	1876.0	2386.3	2336.8	2128.7	2109.3	1989.5	1907.6
60°	931.5	946.2	989.8	1161.6	1659.2	2469.9	2791.0	2456.4	2412.6	2138.9	2063.6
62.5°	639.2	646.6	676.2	788.2	1221.9	2333.0	3171.1	2895.2	2815.2	2301.4	2232.3
65°	488.2	490.7	502.8	541.4	727.6	1895.0	3322.3	3474.2	3377.5	2495.7	2407.3
67.5°	393.5	391.3	408.1	463.2	487.3	1156.1	3145.9	4022.0	3976.8	2755.5	2583.5
69°	346.9	344.0	361.1	425.2	457.7	764.2	2812.3	4146.4	4149.3	2892.6	2595.6
70°	312.2	314.1	331.0	402.5	447.6	599.9	2493.8	4114.7	4137.4	2944.0	2523.0
72.5°	208.5	213.6	247.5	334.1	430.4	453.9	1505.8	3530.9	3617.9	2828.5	2164.5
75°	117.6	121.4	161.7	252.0	405.5	432.3	795.4	2601.3	2685.5	2365.3	1669.1
77.5°	57.7	59.7	91.4	162.6	339.1	411.9	451.1	1767.0	1863.0	1543.9	944.1
80°	24.4	25.5	45.7	100.3	242.5	393.1	335.0	1087.5	1099.4	604.9	251.5
82.5°	9.4	9.7	19.3	62.6	154.0	306.5	280.2	515.6	503.2	113.9	57.4
85°	1.1	1.3	7.0	37.6	85.7	157.7	227.6	222.2	205.7	22.6	29.4
87.5°	0.0	0.0	0.5	11.5	25.5	73.9	118.3	92.2	83.2	7.4	15.3
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°	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3	951.3
2.5°	948.9	947.3	938.7	926.2	914.5	899.8	885.8	877.3	870.6	866.2	871.5
5°	951.4	944.4	918.3	884.9	852.0	815.1	780.6	751.5	740.0	727.4	733.0
7.5°	950.6	937.4	890.4	830.8	770.7	708.3	649.4	604.0	580.4	557.3	563.2
10°	946.6	924.4	853.1	764.9	674.7	585.2	501.6	438.0	402.5	370.4	374.9
12.5°	937.9	906.9	809.1	689.4	568.8	450.8	352.8	271.5	227.8	208.5	210.9
15°	932.7	889.8	762.7	613.0	455.7	313.9	215.7	160.4	140.5	134.1	134.9
17.5°	930.1	873.4	714.6	525.5	340.1	199.9	139.4	123.0	118.7	117.6	117.8
20°	927.5	856.8	665.0	439.0	234.3	134.4	114.5	109.7	108.2	106.8	107.0
22.5°	923.3	840.9	611.8	351.4	158.0	109.1	103.2	98.6	95.3	93.5	93.8
25°	917.9	824.1	557.5	261.7	115.3	97.3	91.8	85.2	81.2	78.1	78.2
27.5°	909.6	803.6	501.5	190.5	96.9	87.1	79.6	72.5	65.8	62.1	62.1
30°	897.7	780.4	439.1	136.4	86.8	77.1	68.0	59.1	51.9	48.6	48.3
32.5°	884.7	756.1	376.3	103.4	78.8	67.7	57.4	48.0	41.5	38.8	38.8
35°	873.5	730.1	313.5	86.6	70.9	58.6	47.3	39.3	34.3	32.0	31.9
37.5°	866.3	703.9	252.4	77.4	63.7	50.2	39.7	32.5	28.8	27.1	26.9
40°	865.2	684.5	196.4	70.4	57.0	42.7	33.2	27.6	24.2	22.3	22.2
42.5°	879.8	673.3	150.7	64.6	50.2	36.1	28.2	23.6	20.0	18.2	18.0
45°	917.9	676.8	116.0	59.2	43.3	30.6	23.8	19.6	16.4	15.0	14.6
47.5°	987.3	701.0	92.2	54.0	36.8	26.0	20.4	16.2	13.5	12.1	11.9
50°	1110.9	757.9	77.1	48.3	30.7	22.2	16.9	13.2	11.0	9.7	9.6
52.5°	1274.9	859.2	68.8	42.7	25.5	18.8	13.9	10.5	8.6	7.6	7.5
55°	1455.9	981.9	63.4	36.6	20.9	15.6	11.0	8.3	6.7	5.9	5.6
57.5°	1632.5	1088.1	58.3	30.7	17.3	12.8	8.8	6.5	5.2	4.5	4.3
60°	1794.8	1185.8	52.4	24.7	14.2	10.1	6.9	5.1	4.1	3.4	3.4
62.5°	1968.6	1261.2	44.2	19.3	11.6	7.6	5.6	4.7	3.4	2.9	2.7
65°	2152.8	1317.3	34.7	15.0	9.0	5.8	4.7	4.8	2.7	2.0	2.0
67.5°	2288.8	1306.1	25.6	11.8	7.0	4.5	4.5	5.1	2.4	1.6	1.4
69°	2258.8	1215.5	21.5	10.2	6.1	3.8	4.1	5.1	2.2	1.4	1.3
70°	2172.1	1115.2	18.9	9.0	5.4	3.5	4.0	4.9	2.0	1.4	1.3
72.5°	1808.9	839.9	14.8	6.9	4.3	2.9	3.4	4.3	2.0	1.4	1.1
75°	1360.6	537.6	11.3	4.9	3.2	2.2	2.5	3.2	2.0	1.3	1.1
77.5°	740.4	193.9	8.1	3.4	2.2	1.8	1.8	2.4	2.0	0.9	0.7
80°	190.3	48.7	5.1	2.2	1.8	1.3	1.1	1.6	1.1	0.2	0.0
82.5°	46.9	11.0	2.7	1.6	1.3	0.5	0.5	0.8	0.5	0.0	0.0
85°	25.8	5.4	1.8	1.1	0.7	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	13.2	1.6	0.5	0.3	0.2	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)