

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: P323315

Luminaire Tested: **GLEON-SA1B-827-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323315  
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-SA1B-827-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 800mA 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: 3644 lumens  
Efficiency: N/A  
Efficacy: 82.8 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

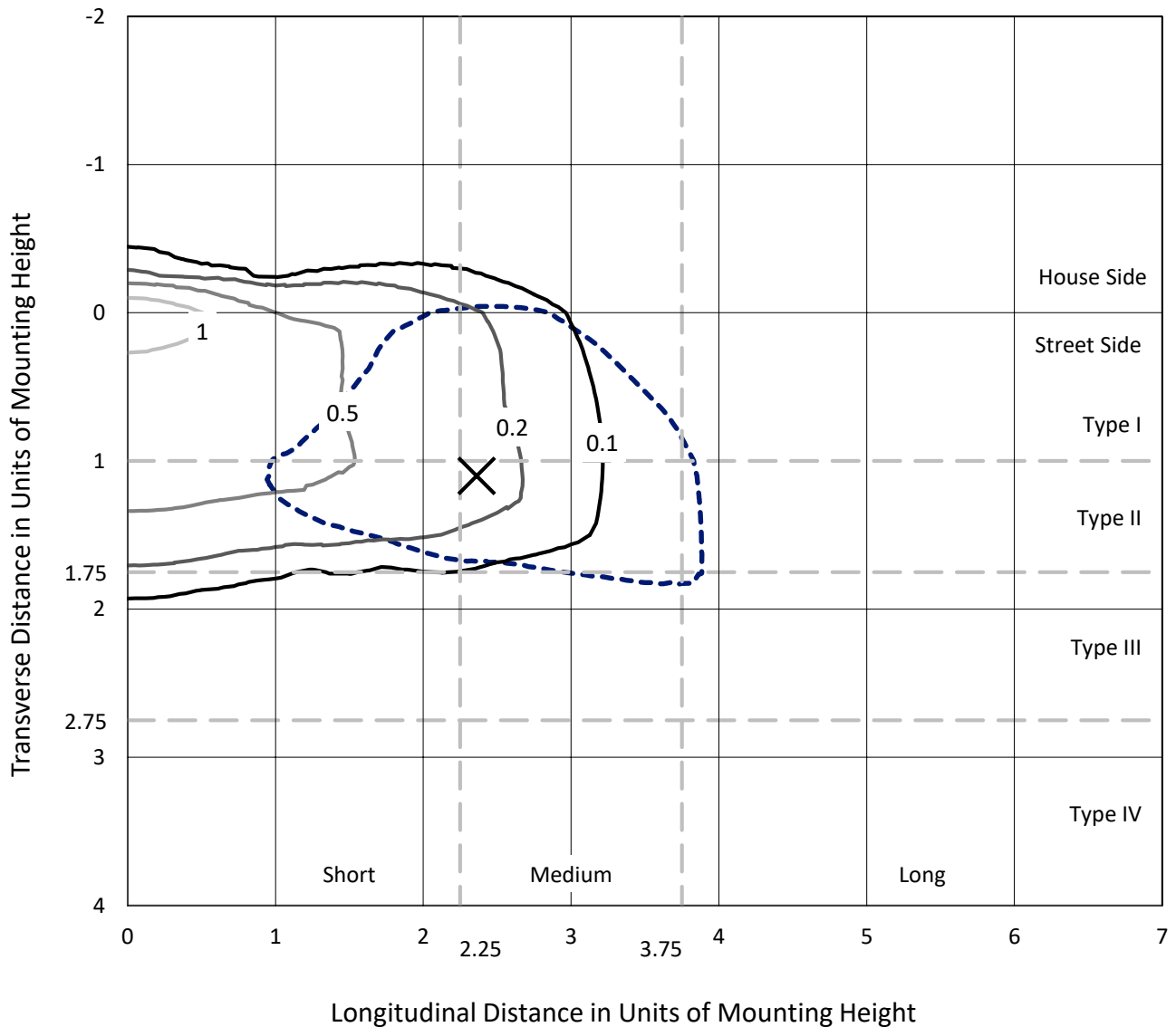
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

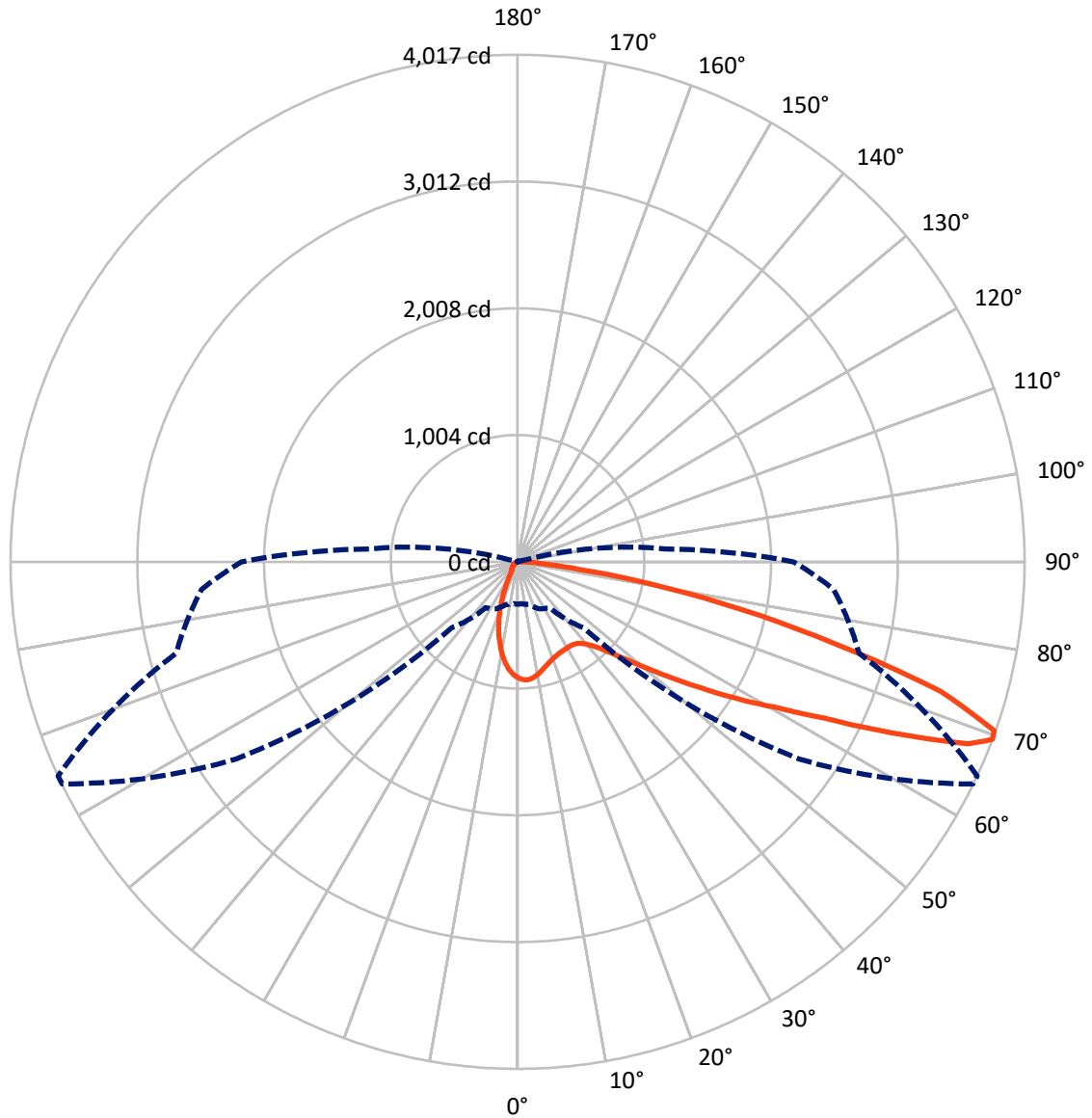
✕ Max cd  
 - - - 1/2 Max cd



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	429.5	0.0	429.5
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3214.5	0.0	3214.5
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3644.0	0.0	3644.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.0	2.1
10°-20°	168.6	4.6
20°-30°	233.5	6.4
30°-40°	325.5	8.9
40°-50°	506.0	13.9
50°-60°	812.3	22.3
60°-70°	918.8	25.2
70°-80°	539.6	14.8
80°-90°	62.8	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°	3644.0	100.0
0°-180°	3644.0	100.0

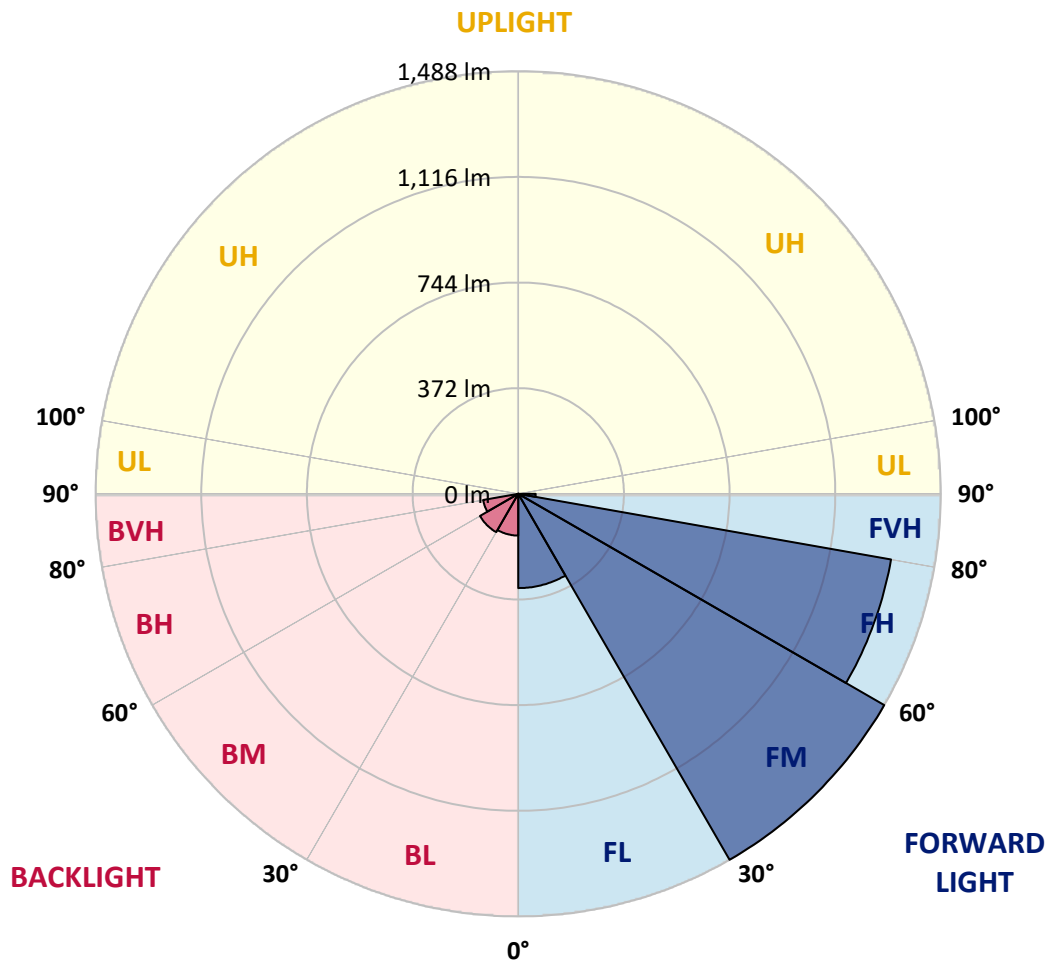


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.1	9.1			
FM (30°-60°)	1488.1	40.8			
FH (60°-80°)	1332.9	36.6			G1/1800
FVH (80°-90°)	61.4	1.7			G1/100
BL (0°-30°)	147.0	4.0	B1/500		
BM (30°-60°)	155.7	4.3	B0/220		
BH (60°-80°)	125.5	3.4	B1/500		G1/500
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: 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°	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8
2.5°	929.0	926.7	928.6	932.6	934.6	934.6	936.1	934.3	934.9	930.4	923.9
5°	870.9	867.3	872.4	883.7	897.6	909.4	927.0	936.3	937.2	937.3	929.8
7.5°	808.3	805.0	812.6	825.9	843.7	865.8	896.5	923.3	924.9	939.3	933.8
10°	757.4	755.1	763.9	778.1	799.0	823.7	861.3	898.6	903.1	935.2	933.2
12.5°	717.0	715.2	723.5	739.8	761.3	788.5	827.9	871.2	877.2	925.8	930.1
15°	687.6	687.2	694.2	709.9	733.7	759.1	799.3	845.8	852.7	915.6	929.6
17.5°	672.1	672.6	677.7	691.1	711.5	736.7	775.3	824.3	831.9	906.5	931.9
20°	670.6	671.1	673.8	681.4	697.9	720.2	755.7	806.3	814.1	899.7	935.6
22.5°	684.2	683.8	684.6	683.8	693.1	710.1	742.8	792.4	801.5	895.2	938.6
25°	710.2	709.8	709.4	703.7	697.6	706.7	737.4	784.5	793.2	892.0	940.3
27.5°	746.5	746.1	745.7	736.3	717.8	712.1	738.0	781.6	788.9	889.4	940.0
30°	794.1	796.3	795.6	782.5	753.7	728.6	744.4	780.1	786.4	884.3	936.7
32.5°	850.1	854.4	857.8	843.7	807.7	761.3	759.4	781.8	786.4	880.4	930.9
35°	908.2	913.8	926.2	921.3	873.8	810.4	785.2	791.9	795.8	882.6	928.1
37.5°	965.4	972.0	999.2	1013.5	960.5	875.5	825.2	817.1	819.1	895.7	931.2
40°	1031.9	1041.9	1083.1	1106.2	1063.9	962.6	885.2	860.2	861.0	924.5	945.5
42.5°	1119.1	1129.5	1174.0	1210.3	1180.5	1072.7	966.6	926.2	925.5	978.5	979.3
45°	1225.5	1236.3	1282.4	1322.7	1309.3	1203.2	1070.9	1022.6	1021.7	1063.6	1043.3
47.5°	1346.1	1356.8	1397.9	1439.4	1453.9	1355.5	1203.6	1154.1	1152.0	1181.9	1142.1
50°	1449.6	1456.5	1494.4	1550.3	1615.6	1542.7	1368.8	1321.1	1318.8	1339.0	1287.2
52.5°	1487.2	1491.2	1529.8	1607.9	1771.1	1796.2	1585.7	1524.4	1522.7	1531.5	1480.4
55°	1411.0	1418.3	1465.6	1581.6	1855.3	2082.7	1859.6	1776.0	1763.2	1744.2	1682.4
57.5°	1203.5	1215.0	1265.9	1420.1	1815.9	2310.0	2262.0	2060.6	2041.8	1925.9	1846.6
60°	901.7	915.9	958.2	1124.5	1606.1	2390.9	2701.8	2377.8	2335.4	2070.5	1997.6
62.5°	618.8	625.9	654.6	763.0	1182.8	2258.3	3069.7	2802.6	2725.2	2227.8	2160.9
65°	472.6	475.1	486.8	524.1	704.4	1834.4	3216.0	3363.1	3269.5	2415.9	2330.3
67.5°	380.9	378.9	395.0	448.4	471.7	1119.1	3045.3	3893.4	3849.6	2667.4	2500.9
69°	335.8	333.1	349.6	411.5	443.0	739.8	2722.4	4013.8	4016.6	2800.2	2512.6
70°	302.2	304.1	320.4	389.6	433.3	580.7	2414.1	3983.1	4005.0	2849.8	2442.3
72.5°	201.8	206.8	239.6	323.5	416.6	439.5	1457.6	3418.0	3502.2	2738.0	2095.3
75°	113.8	117.5	156.5	243.9	392.6	418.5	769.9	2518.1	2599.6	2289.6	1615.8
77.5°	55.8	57.8	88.5	157.4	328.3	398.7	436.7	1710.5	1803.5	1494.4	913.9
80°	23.6	24.7	44.3	97.1	234.7	380.6	324.3	1052.7	1064.2	585.5	243.5
82.5°	9.1	9.4	18.7	60.6	149.1	296.7	271.2	499.1	487.1	110.2	55.5
85°	1.1	1.2	6.8	36.4	83.0	152.7	220.3	215.1	199.1	21.9	28.5
87.5°	0.0	0.0	0.5	11.1	24.7	71.5	114.6	89.3	80.5	7.1	14.8
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°	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8	920.8
2.5°	918.5	917.0	908.7	896.6	885.2	871.0	857.5	849.3	842.8	838.5	843.6
5°	921.0	914.2	888.9	856.5	824.8	789.0	755.7	727.5	716.4	704.0	709.6
7.5°	920.2	907.4	861.9	804.3	746.0	685.7	628.6	584.7	561.9	539.5	545.2
10°	916.4	894.8	825.9	740.4	653.2	566.5	485.6	424.0	389.6	358.5	363.0
12.5°	907.9	877.8	783.3	667.4	550.6	436.4	341.5	262.7	220.5	201.8	204.2
15°	902.8	861.3	738.3	593.3	441.1	303.9	208.8	155.3	136.0	129.8	130.6
17.5°	900.3	845.4	691.7	508.7	329.2	193.5	134.9	119.0	114.9	113.8	114.1
20°	897.9	829.4	643.8	425.0	226.8	130.1	110.9	106.2	104.7	103.3	103.6
22.5°	893.7	814.0	592.3	340.2	153.0	105.6	99.9	95.4	92.2	90.5	90.8
25°	888.6	797.8	539.7	253.3	111.6	94.2	88.8	82.5	78.6	75.6	75.7
27.5°	880.4	777.9	485.4	184.4	93.7	84.3	77.1	70.2	63.7	60.1	60.1
30°	869.0	755.4	425.1	132.0	84.0	74.6	65.8	57.2	50.3	47.0	46.7
32.5°	856.4	732.0	364.2	100.1	76.3	65.5	55.5	46.4	40.2	37.6	37.5
35°	845.6	706.7	303.5	83.9	68.6	56.7	45.8	38.1	33.2	31.0	30.8
37.5°	838.7	681.4	244.2	74.9	61.7	48.6	38.4	31.5	27.9	26.2	26.1
40°	837.6	662.6	190.1	68.2	55.2	41.3	32.1	26.7	23.4	21.6	21.4
42.5°	851.6	651.8	145.9	62.4	48.6	35.0	27.3	22.8	19.4	17.6	17.4
45°	888.5	655.2	112.3	57.4	41.9	29.6	23.1	19.0	15.9	14.5	14.2
47.5°	955.7	678.6	89.3	52.3	35.6	25.1	19.7	15.7	13.1	11.7	11.6
50°	1075.3	733.7	74.6	46.7	29.8	21.4	16.3	12.8	10.6	9.4	9.3
52.5°	1234.2	831.7	66.6	41.3	24.7	18.2	13.4	10.2	8.3	7.4	7.2
55°	1409.3	950.5	61.4	35.5	20.2	15.1	10.6	8.0	6.5	5.7	5.4
57.5°	1580.3	1053.3	56.4	29.8	16.8	12.3	8.5	6.3	5.1	4.3	4.2
60°	1737.5	1147.8	50.7	23.9	13.7	9.7	6.6	4.9	4.0	3.2	3.2
62.5°	1905.7	1220.9	42.9	18.7	11.3	7.4	5.4	4.5	3.2	2.8	2.6
65°	2083.9	1275.2	33.6	14.5	8.8	5.6	4.5	4.6	2.6	2.0	1.9
67.5°	2215.6	1264.4	24.8	11.4	6.8	4.3	4.3	4.9	2.3	1.5	1.4
69°	2186.6	1176.7	20.8	9.9	5.9	3.7	4.0	4.9	2.2	1.4	1.2
70°	2102.6	1079.5	18.3	8.8	5.2	3.4	3.9	4.8	2.0	1.4	1.2
72.5°	1751.0	813.1	14.3	6.6	4.2	2.8	3.2	4.2	2.0	1.4	1.1
75°	1317.1	520.4	10.9	4.8	3.1	2.2	2.5	3.1	2.0	1.2	1.1
77.5°	716.7	187.7	7.9	3.2	2.2	1.7	1.7	2.3	1.9	0.9	0.6
80°	184.3	47.2	4.9	2.2	1.7	1.2	1.1	1.5	1.1	0.2	0.0
82.5°	45.5	10.6	2.6	1.5	1.2	0.5	0.5	0.8	0.5	0.0	0.0
85°	25.0	5.2	1.7	1.1	0.6	0.0	0.0	0.2	0.0	0.0	0.0
87.5°	12.8	1.5	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)