

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: P323625

Luminaire Tested: **GLEON-SA1A-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3065 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

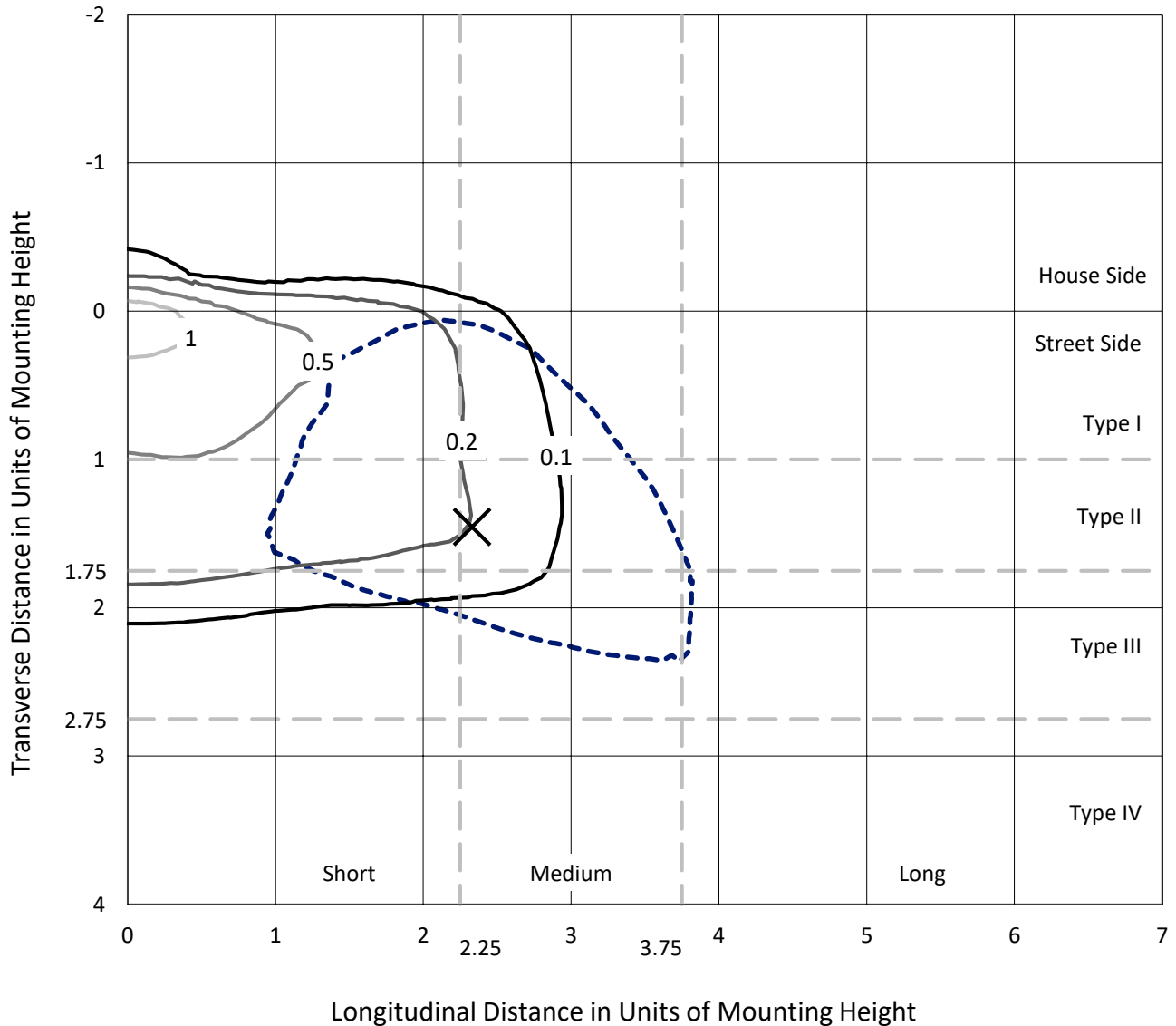
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

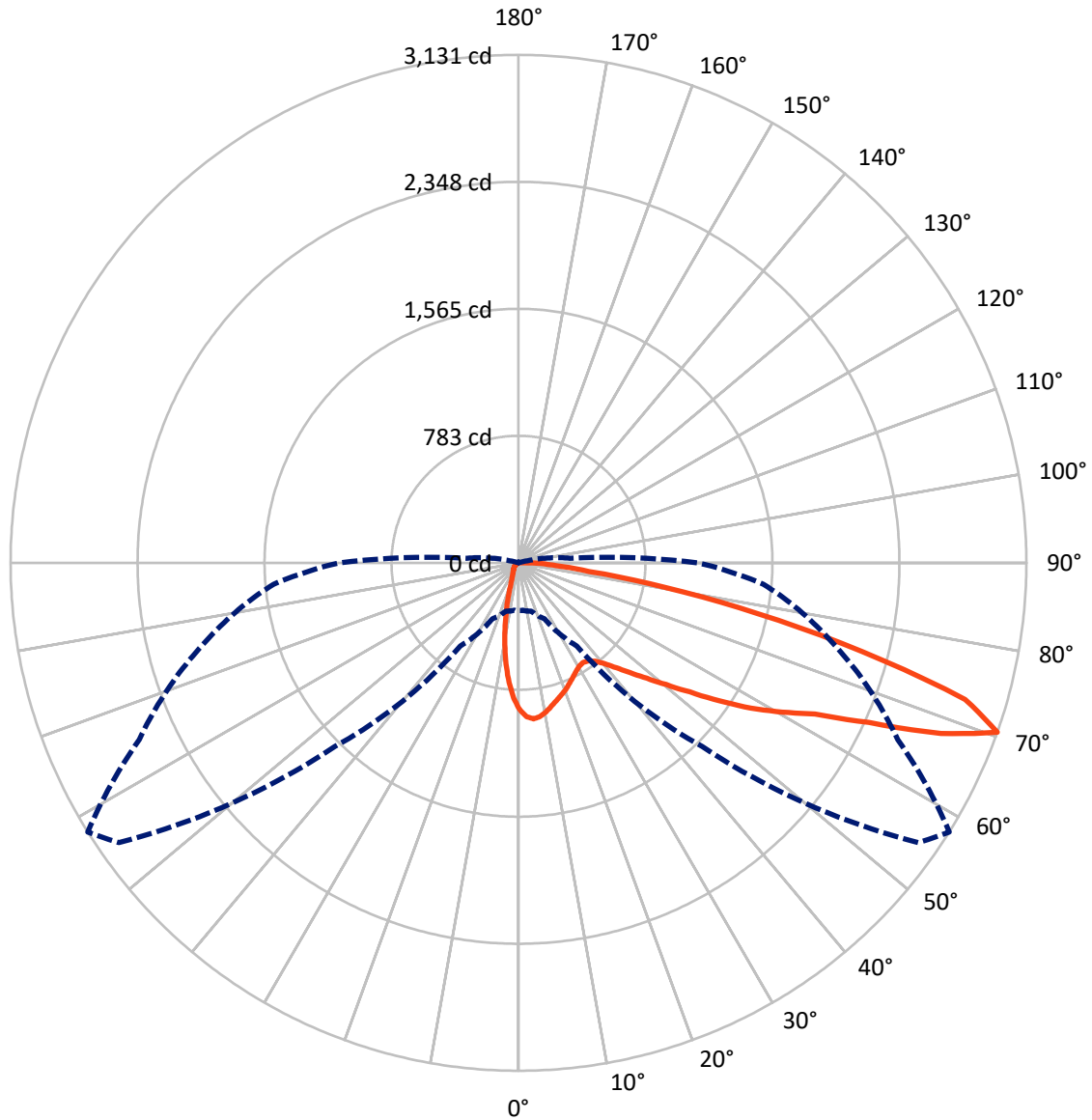
✕ Max cd  
 - - - 1/2 Max cd



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 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	262.3	0.0	262.3
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	2802.7	0.0	2802.7
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	3065.0	0.0	3065.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.0	2.4
10°-20°	155.4	5.1
20°-30°	204.3	6.7
30°-40°	270.5	8.8
40°-50°	404.4	13.2
50°-60°	647.8	21.1
60°-70°	816.6	26.6
70°-80°	440.4	14.4
80°-90°	51.5	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°	3065.0	100.0
0°-180°	3065.0	100.0

**Coefficient of Utilization**

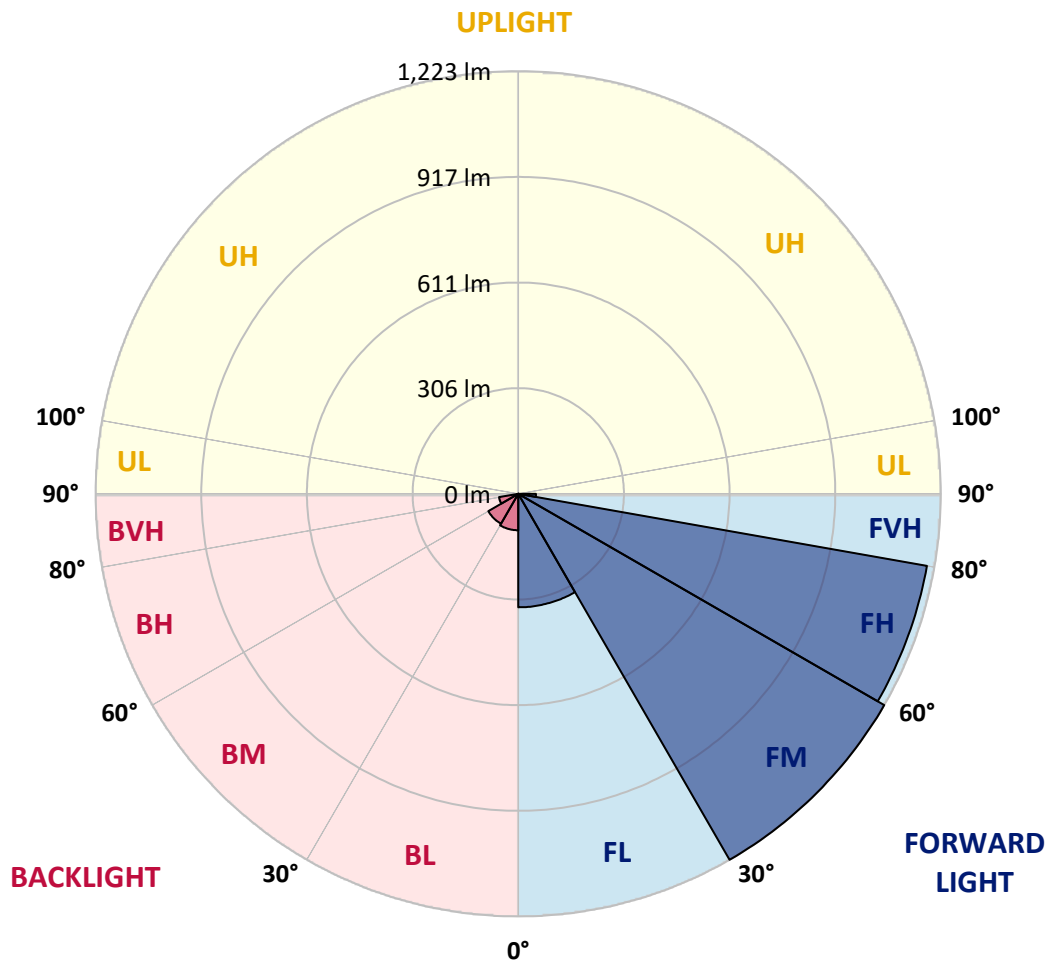


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.3	10.7			
FM (30°-60°)	1222.7	39.9			
FH (60°-80°)	1200.6	39.2			G1/1800
FVH (80°-90°)	51.1	1.7			G1/100
BL (0°-30°)	105.4	3.4	B0/110		
BM (30°-60°)	100.1	3.3	B0/220		
BH (60°-80°)	56.4	1.8	B0/110		G0/110
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: B0-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4
2.5°	980.5	978.0	977.1	975.6	969.7	964.0	952.7	949.5	942.3	925.4	907.4
5°	981.2	981.1	983.8	983.1	981.1	978.4	970.3	966.1	953.9	929.7	896.8
7.5°	933.9	936.4	942.3	947.2	952.8	960.1	961.1	957.0	947.1	920.9	877.3
10°	870.5	874.3	882.7	892.3	906.9	921.4	934.4	933.9	930.5	904.7	853.9
12.5°	806.9	811.3	821.0	835.2	855.9	879.6	902.8	906.0	911.8	890.2	832.2
15°	751.2	755.0	764.6	781.9	807.6	839.5	873.5	879.4	894.2	878.9	814.1
17.5°	703.9	706.3	713.3	732.6	762.4	801.0	845.2	856.7	878.7	870.0	798.5
20°	670.9	671.3	675.9	689.4	719.2	762.4	815.9	832.4	862.4	862.3	782.3
22.5°	654.6	653.3	654.2	662.0	683.9	725.6	786.6	806.1	847.8	855.8	765.8
25°	651.5	650.5	647.9	649.0	662.2	693.3	757.0	779.6	834.9	851.9	751.6
27.5°	661.1	662.1	657.8	653.2	654.2	672.4	730.8	756.9	824.5	851.9	741.5
30°	680.3	680.8	677.6	671.6	663.6	666.6	712.6	738.7	819.2	857.7	735.1
32.5°	701.6	704.4	704.0	699.2	687.7	675.9	708.2	732.1	818.8	870.7	734.5
35°	728.0	731.2	736.5	735.5	723.5	704.0	723.0	741.7	826.4	892.1	741.4
37.5°	756.0	760.9	772.3	777.8	770.0	748.0	756.1	769.5	846.5	926.8	758.8
40°	783.2	788.6	809.5	831.1	825.2	802.5	806.4	817.1	882.3	976.6	792.0
42.5°	809.8	818.0	848.7	884.1	891.1	873.0	875.1	883.6	935.5	1045.2	846.1
45°	841.7	850.8	896.3	940.1	958.8	950.9	959.6	965.2	1004.9	1135.8	919.2
47.5°	888.4	899.0	954.8	1004.7	1037.5	1042.6	1060.1	1063.8	1092.7	1241.3	1014.4
50°	979.7	982.6	1033.1	1078.3	1125.7	1156.3	1176.2	1179.0	1199.0	1356.7	1133.3
52.5°	1094.5	1096.4	1125.0	1155.3	1209.2	1271.7	1318.2	1322.1	1326.3	1469.1	1250.6
55°	1208.6	1208.3	1227.2	1245.0	1306.7	1397.5	1498.4	1500.8	1470.6	1575.8	1340.4
57.5°	1279.8	1286.7	1315.4	1338.3	1424.5	1540.8	1680.9	1689.8	1622.2	1654.8	1429.1
60°	1257.1	1260.5	1324.1	1408.9	1571.2	1744.6	1865.6	1867.9	1736.1	1733.7	1541.2
62.5°	1071.1	1072.9	1172.8	1347.8	1645.5	2009.0	2088.4	2051.0	1867.1	1843.1	1675.4
65°	734.1	745.7	829.2	1045.5	1509.0	2174.8	2433.2	2371.4	2066.8	2000.9	1796.8
67.5°	432.3	429.9	471.2	630.5	1108.3	2064.6	2869.5	2808.0	2339.2	2106.6	1761.2
70°	295.3	293.6	309.4	381.7	625.6	1601.6	3006.7	3130.7	2579.7	2035.5	1515.7
72.5°	210.8	211.7	235.0	296.6	392.8	933.2	2585.7	2879.2	2504.3	1774.5	1152.1
75°	143.1	145.5	178.9	243.3	344.4	474.7	1834.9	2188.7	2039.3	1289.6	662.2
77.5°	77.0	79.7	119.0	196.0	311.4	329.8	1180.3	1506.3	1281.0	579.8	191.9
80°	32.1	33.6	55.7	142.5	269.0	289.7	694.5	913.4	545.9	114.3	42.8
82.5°	13.9	14.7	23.2	85.0	201.1	244.6	367.7	439.4	165.4	25.1	21.5
85°	2.7	2.8	9.6	45.0	128.3	138.0	238.3	233.6	74.3	10.8	15.7
87.5°	0.0	0.0	2.3	14.1	37.7	75.2	145.4	143.6	25.2	5.2	5.9
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°	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4	905.4
2.5°	898.2	889.5	871.0	848.2	830.7	811.5	796.2	776.8	768.4	768.8	764.2
5°	878.1	860.0	819.1	767.5	727.7	686.7	651.4	616.2	595.4	588.7	582.3
7.5°	849.3	820.6	755.4	675.9	608.6	542.8	485.6	435.2	403.4	387.8	382.1
10°	816.8	776.5	682.1	577.3	481.2	392.3	318.1	253.6	227.9	210.4	206.0
12.5°	788.3	733.7	610.5	476.3	362.2	254.9	184.2	144.0	126.6	119.7	118.5
15°	761.4	693.7	541.5	384.8	250.8	156.9	117.1	103.5	99.4	98.3	98.3
17.5°	736.0	655.6	474.1	294.7	165.9	110.0	97.0	93.9	92.7	92.5	92.7
20°	709.5	617.5	407.8	215.9	115.8	93.2	89.6	87.9	87.6	87.6	87.6
22.5°	684.1	579.4	343.3	154.2	92.9	85.0	83.2	82.1	81.7	81.6	81.3
25°	659.8	543.2	280.4	109.0	81.6	77.9	76.3	74.8	73.7	73.0	72.6
27.5°	639.8	510.9	221.8	87.4	73.7	70.5	68.6	66.3	63.5	62.2	61.7
30°	623.9	481.5	170.9	73.8	66.3	63.1	60.2	56.2	52.1	50.0	49.8
32.5°	611.4	452.6	129.7	65.3	59.6	55.7	51.5	46.5	41.8	39.4	39.3
35°	605.2	427.1	99.2	59.0	53.8	48.8	43.6	38.1	33.5	31.2	31.0
37.5°	609.3	405.5	77.4	53.8	48.8	43.1	37.0	31.2	27.1	25.1	25.0
40°	624.2	391.8	62.8	49.3	44.6	37.6	31.0	25.6	22.2	20.5	20.4
42.5°	656.0	386.7	53.7	45.6	40.5	32.5	25.7	21.2	18.0	16.8	16.6
45°	709.0	394.2	47.4	42.1	36.3	27.7	21.3	17.3	14.5	13.6	13.5
47.5°	779.6	413.9	42.9	38.6	32.5	23.3	17.7	14.0	11.9	11.0	10.8
50°	870.6	445.3	39.3	35.2	28.9	19.8	14.7	11.1	9.2	8.5	8.5
52.5°	969.6	482.6	35.9	32.0	25.4	16.4	11.9	8.5	7.3	6.5	6.5
55°	1051.4	515.3	32.4	29.6	21.0	13.6	9.0	6.5	5.4	5.0	5.0
57.5°	1133.1	550.1	28.3	25.4	16.8	11.1	6.9	4.8	4.0	3.7	3.7
60°	1239.0	592.6	24.3	20.6	13.3	8.4	5.1	3.4	2.9	2.8	2.8
62.5°	1355.5	617.6	20.8	16.6	10.3	6.2	3.7	2.3	2.2	2.2	2.0
65°	1426.8	582.3	17.5	13.3	8.0	4.7	2.4	1.7	1.9	1.8	1.5
67.5°	1335.9	455.9	14.3	10.3	6.2	3.6	1.5	1.1	2.0	1.7	1.3
70°	1106.1	319.1	11.1	7.3	5.0	3.1	1.0	0.8	2.2	1.7	1.0
72.5°	827.8	213.6	8.8	4.8	3.7	2.7	0.9	0.4	1.9	1.4	0.9
75°	452.3	86.0	7.0	3.1	2.3	1.9	0.6	0.3	1.3	1.0	0.6
77.5°	119.0	22.7	5.1	2.0	1.3	0.8	0.4	0.1	0.6	0.5	0.3
80°	30.3	8.8	3.3	1.4	0.9	0.4	0.0	0.0	0.1	0.0	0.0
82.5°	16.2	3.7	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	2.4	1.1	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	0.8	0.4	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)