

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: P323305

Luminaire Tested: **GLEON-SA1A-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323305
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-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 2971 lumens
Efficiency: N/A
Efficacy: 87.4 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

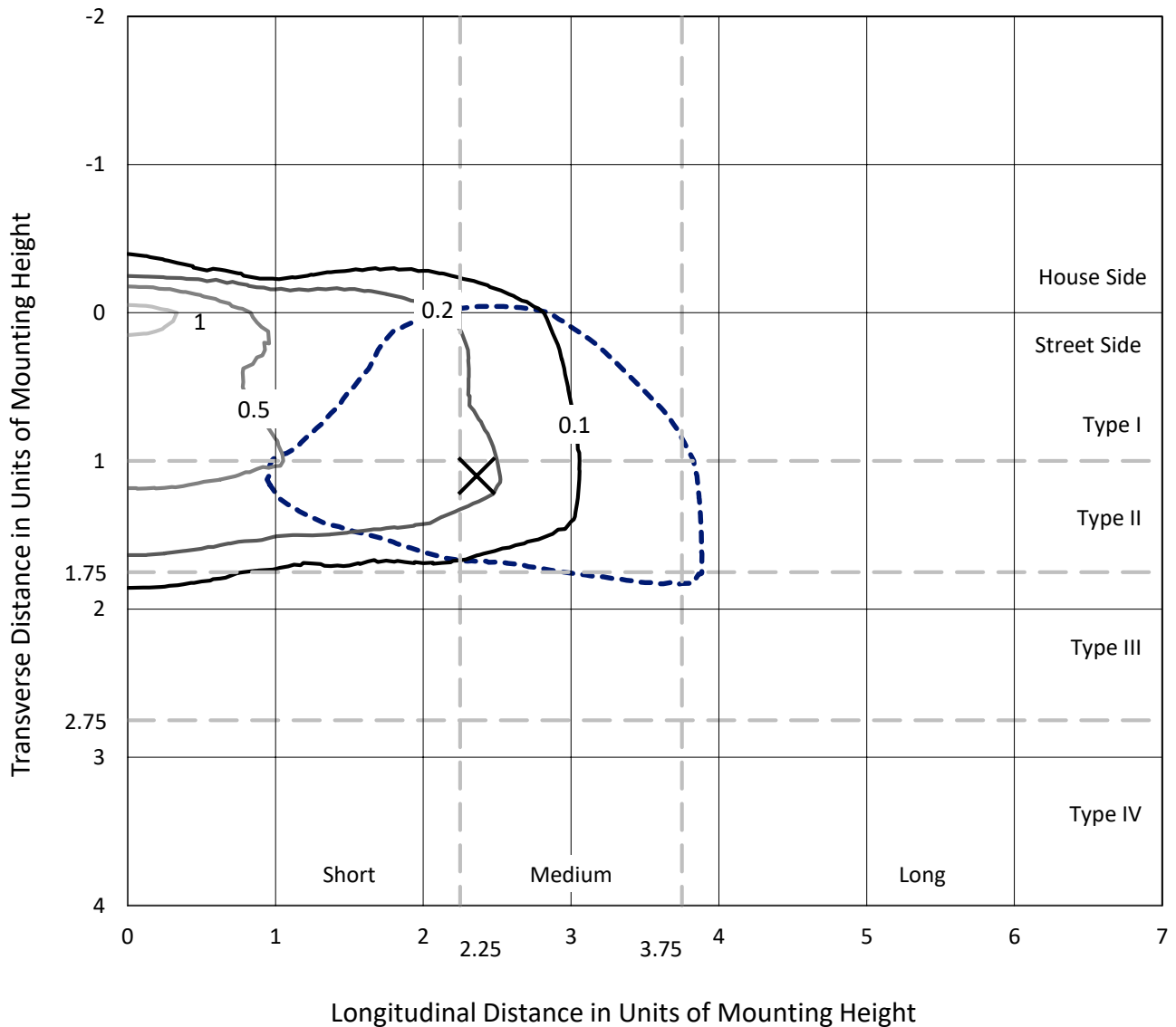
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

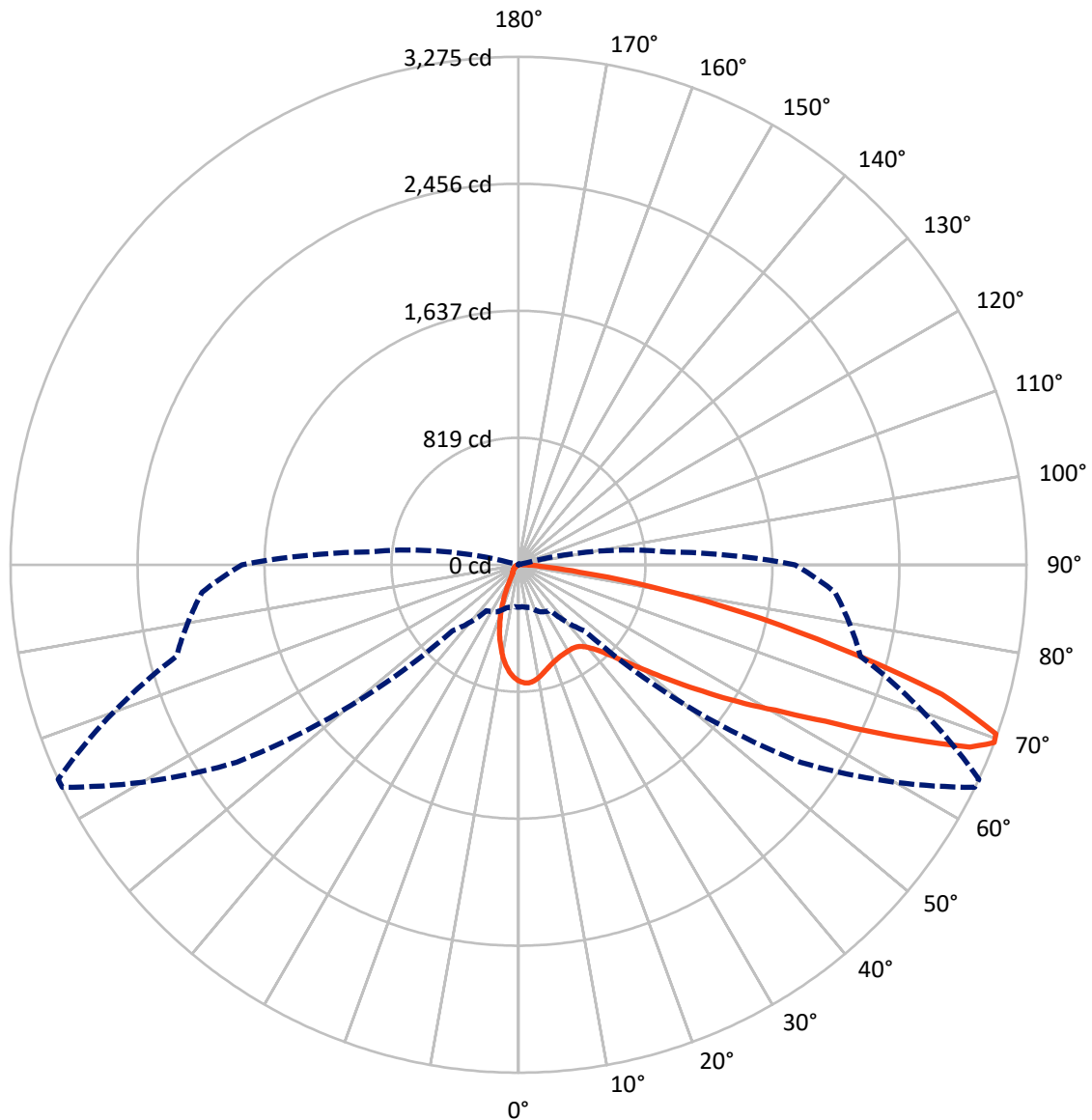
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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
House Side	Lumens	350.2	0.0	350.2
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	2620.8	0.0	2620.8
	% Fixture	88.2	0.0	88.2
Total	Lumens	2971.0	0.0	2971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	2.1
10°-20°	137.4	4.6
20°-30°	190.3	6.4
30°-40°	265.4	8.9
40°-50°	412.5	13.9
50°-60°	662.3	22.3
60°-70°	749.1	25.2
70°-80°	440.0	14.8
80°-90°	51.2	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°	2971.0	100.0
0°-180°	2971.0	100.0

Coefficient of Utilization

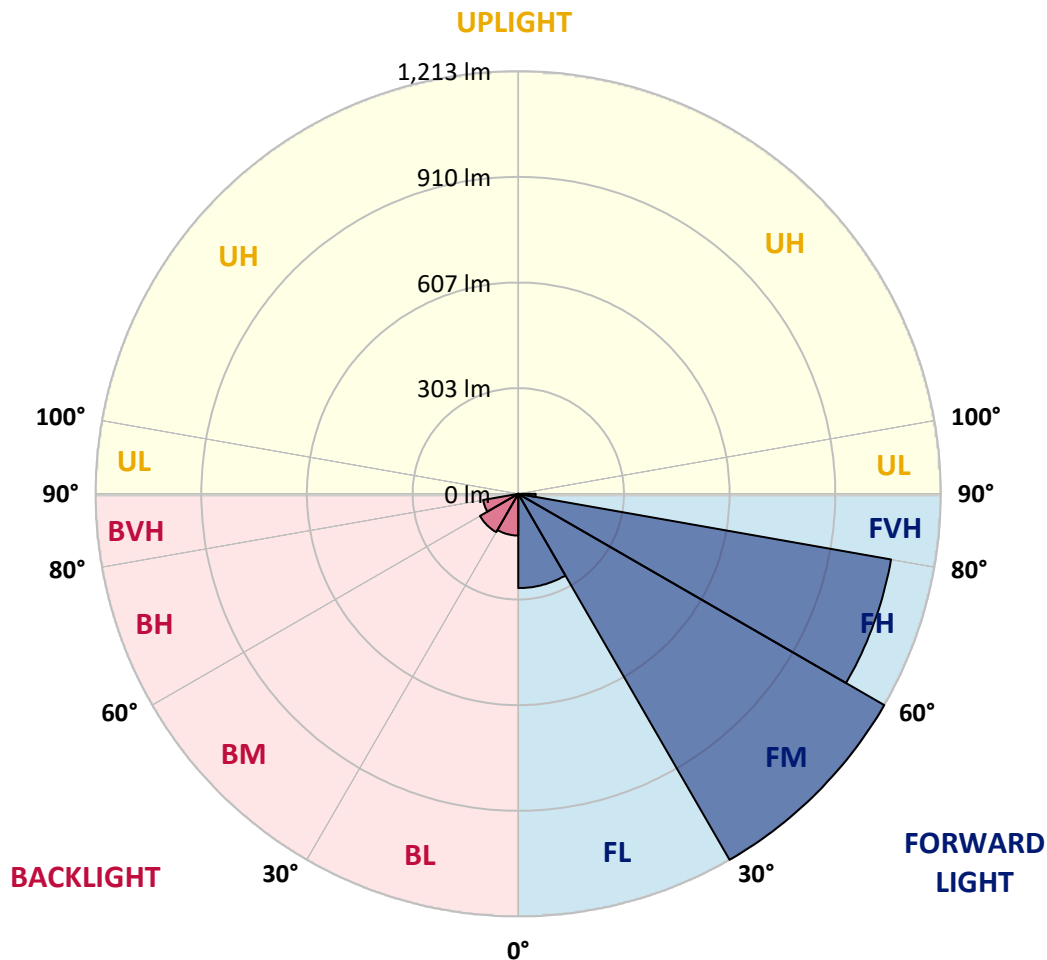


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	270.7	9.1			
FM (30°-60°)	1213.3	40.8			
FH (60°-80°)	1086.8	36.6			G1/1800
FVH (80°-90°)	50.0	1.7			G1/100
BL (0°-30°)	119.8	4.0	B1/500		
BM (30°-60°)	126.9	4.3	B0/220		
BH (60°-80°)	102.3	3.4	B0/110		G0/110
BVH (80°-90°)	1.2	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°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	757.4	755.6	757.1	760.3	762.0	762.0	763.2	761.7	762.2	758.6	753.3
5°	710.0	707.2	711.3	720.5	731.8	741.5	755.8	763.3	764.1	764.2	758.1
7.5°	659.0	656.4	662.5	673.3	687.9	705.9	730.9	752.8	754.0	765.9	761.3
10°	617.5	615.6	622.8	634.4	651.5	671.6	702.3	732.7	736.3	762.5	760.8
12.5°	584.6	583.1	589.9	603.2	620.7	642.9	675.0	710.3	715.2	754.8	758.3
15°	560.6	560.3	566.0	578.8	598.2	618.9	651.7	689.6	695.2	746.5	757.9
17.5°	548.0	548.4	552.5	563.5	580.1	600.7	632.1	672.1	678.2	739.1	759.8
20°	546.7	547.1	549.4	555.5	569.0	587.2	616.1	657.4	663.8	733.6	762.8
22.5°	557.8	557.6	558.2	557.6	565.1	578.9	605.6	646.1	653.5	729.9	765.2
25°	579.0	578.7	578.4	573.8	568.7	576.2	601.2	639.6	646.7	727.3	766.6
27.5°	608.6	608.3	608.0	600.3	585.2	580.6	601.7	637.3	643.2	725.1	766.4
30°	647.4	649.2	648.7	638.0	614.5	594.0	607.0	636.0	641.2	721.0	763.7
32.5°	693.1	696.6	699.4	687.9	658.5	620.7	619.2	637.4	641.2	717.8	758.9
35°	740.5	745.0	755.2	751.2	712.4	660.8	640.1	645.7	648.8	719.6	756.7
37.5°	787.1	792.5	814.6	826.3	783.1	713.8	672.8	666.2	667.8	730.3	759.2
40°	841.3	849.5	883.0	901.9	867.4	784.8	721.7	701.4	702.0	753.8	770.9
42.5°	912.4	920.9	957.2	986.7	962.5	874.6	788.1	755.2	754.5	797.8	798.4
45°	999.2	1008.0	1045.6	1078.4	1067.5	981.0	873.1	833.7	833.0	867.2	850.6
47.5°	1097.5	1106.2	1139.7	1173.6	1185.4	1105.2	981.3	941.0	939.2	963.6	931.2
50°	1181.9	1187.5	1218.4	1264.0	1317.3	1257.8	1116.0	1077.1	1075.3	1091.7	1049.5
52.5°	1212.5	1215.8	1247.2	1311.0	1444.0	1464.5	1292.9	1242.8	1241.4	1248.6	1207.0
55°	1150.4	1156.3	1194.9	1289.5	1512.6	1698.0	1516.1	1448.0	1437.6	1422.1	1371.7
57.5°	981.2	990.6	1032.1	1157.8	1480.6	1883.4	1844.3	1680.1	1664.7	1570.2	1505.6
60°	735.2	746.8	781.2	916.8	1309.5	1949.4	2202.8	1938.7	1904.1	1688.1	1628.7
62.5°	504.5	510.3	533.7	622.0	964.4	1841.2	2502.8	2285.0	2221.9	1816.3	1761.8
65°	385.3	387.3	396.9	427.3	574.3	1495.6	2622.1	2742.0	2665.7	1969.7	1899.9
67.5°	310.5	308.9	322.1	365.6	384.6	912.4	2482.9	3174.3	3138.6	2174.8	2039.0
69°	273.8	271.5	285.0	335.5	361.2	603.2	2219.6	3272.5	3274.8	2283.0	2048.5
70°	246.4	247.9	261.2	317.7	353.3	473.4	1968.2	3247.5	3265.4	2323.5	1991.2
72.5°	164.6	168.6	195.4	263.8	339.7	358.3	1188.4	2786.8	2855.4	2232.3	1708.4
75°	92.8	95.8	127.6	198.9	320.1	341.2	627.7	2053.1	2119.4	1866.8	1317.4
77.5°	45.5	47.1	72.2	128.4	267.6	325.1	356.0	1394.6	1470.4	1218.4	745.1
80°	19.2	20.1	36.1	79.2	191.3	310.3	264.4	858.3	867.7	477.3	198.5
82.5°	7.4	7.7	15.2	49.4	121.6	241.9	221.1	406.9	397.1	89.9	45.3
85°	0.9	1.0	5.5	29.7	67.6	124.5	179.6	175.4	162.3	17.9	23.3
87.5°	0.0	0.0	0.4	9.1	20.1	58.3	93.4	72.8	65.6	5.8	12.1
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°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	748.9	747.6	740.8	731.0	721.7	710.2	699.1	692.4	687.2	683.6	687.8
5°	750.9	745.4	724.8	698.4	672.5	643.3	616.1	593.1	584.1	574.0	578.5
7.5°	750.3	739.8	702.8	655.7	608.2	559.1	512.5	476.7	458.1	439.9	444.5
10°	747.1	729.5	673.3	603.7	532.5	461.9	395.9	345.7	317.7	292.3	295.9
12.5°	740.2	715.7	638.6	544.1	448.9	355.8	278.5	214.2	179.8	164.6	166.4
15°	736.1	702.3	601.9	483.8	359.7	247.8	170.2	126.6	110.9	105.9	106.5
17.5°	734.1	689.3	564.0	414.7	268.4	157.8	110.0	97.1	93.7	92.8	93.0
20°	732.0	676.2	524.9	346.5	184.9	106.1	90.4	86.6	85.4	84.2	84.5
22.5°	728.7	663.7	482.9	277.3	124.7	86.1	81.5	77.8	75.2	73.8	74.0
25°	724.5	650.5	440.0	206.6	91.0	76.8	72.4	67.3	64.1	61.6	61.7
27.5°	717.8	634.2	395.8	150.4	76.4	68.8	62.9	57.2	51.9	49.0	49.0
30°	708.5	615.9	346.6	107.6	68.5	60.8	53.7	46.6	41.0	38.3	38.1
32.5°	698.2	596.8	296.9	81.6	62.2	53.4	45.3	37.8	32.8	30.7	30.5
35°	689.4	576.2	247.4	68.4	55.9	46.3	37.3	31.1	27.0	25.3	25.1
37.5°	683.8	555.5	199.1	61.1	50.3	39.6	31.3	25.6	22.8	21.4	21.2
40°	682.9	540.2	155.0	55.6	45.0	33.7	26.1	21.7	19.1	17.6	17.5
42.5°	694.3	531.4	118.9	50.9	39.6	28.5	22.3	18.6	15.8	14.3	14.2
45°	724.4	534.2	91.5	46.8	34.2	24.1	18.9	15.5	12.9	11.8	11.6
47.5°	779.2	553.3	72.8	42.6	29.0	20.5	16.1	12.8	10.7	9.6	9.4
50°	876.7	598.2	60.8	38.1	24.3	17.5	13.3	10.4	8.7	7.7	7.5
52.5°	1006.2	678.1	54.3	33.7	20.1	14.8	10.9	8.3	6.8	6.0	5.9
55°	1149.0	774.9	50.0	28.9	16.5	12.3	8.7	6.5	5.3	4.7	4.4
57.5°	1288.5	858.8	46.0	24.3	13.7	10.1	6.9	5.2	4.1	3.5	3.4
60°	1416.6	935.8	41.4	19.5	11.2	7.9	5.4	4.0	3.3	2.6	2.6
62.5°	1553.7	995.4	34.9	15.2	9.2	6.0	4.4	3.6	2.6	2.3	2.1
65°	1699.1	1039.7	27.4	11.8	7.2	4.5	3.6	3.8	2.1	1.6	1.5
67.5°	1806.4	1030.9	20.2	9.3	5.5	3.5	3.5	4.0	1.9	1.3	1.1
69°	1782.8	959.3	17.0	8.0	4.8	3.0	3.3	4.0	1.8	1.1	1.0
70°	1714.3	880.1	15.0	7.2	4.3	2.8	3.1	3.9	1.6	1.1	1.0
72.5°	1427.6	662.9	11.7	5.4	3.4	2.3	2.6	3.4	1.6	1.1	0.9
75°	1073.9	424.3	8.9	3.9	2.5	1.8	2.0	2.5	1.6	1.0	0.9
77.5°	584.3	153.0	6.4	2.6	1.8	1.4	1.4	1.9	1.5	0.8	0.5
80°	150.2	38.5	4.0	1.8	1.4	1.0	0.9	1.3	0.9	0.1	0.0
82.5°	37.1	8.7	2.1	1.3	1.0	0.4	0.4	0.6	0.4	0.0	0.0
85°	20.4	4.3	1.4	0.9	0.5	0.0	0.0	0.1	0.0	0.0	0.0
87.5°	10.4	1.3	0.4	0.3	0.1	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)