

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: P321386

Luminaire Tested: **GLEON-SA2A-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5658 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

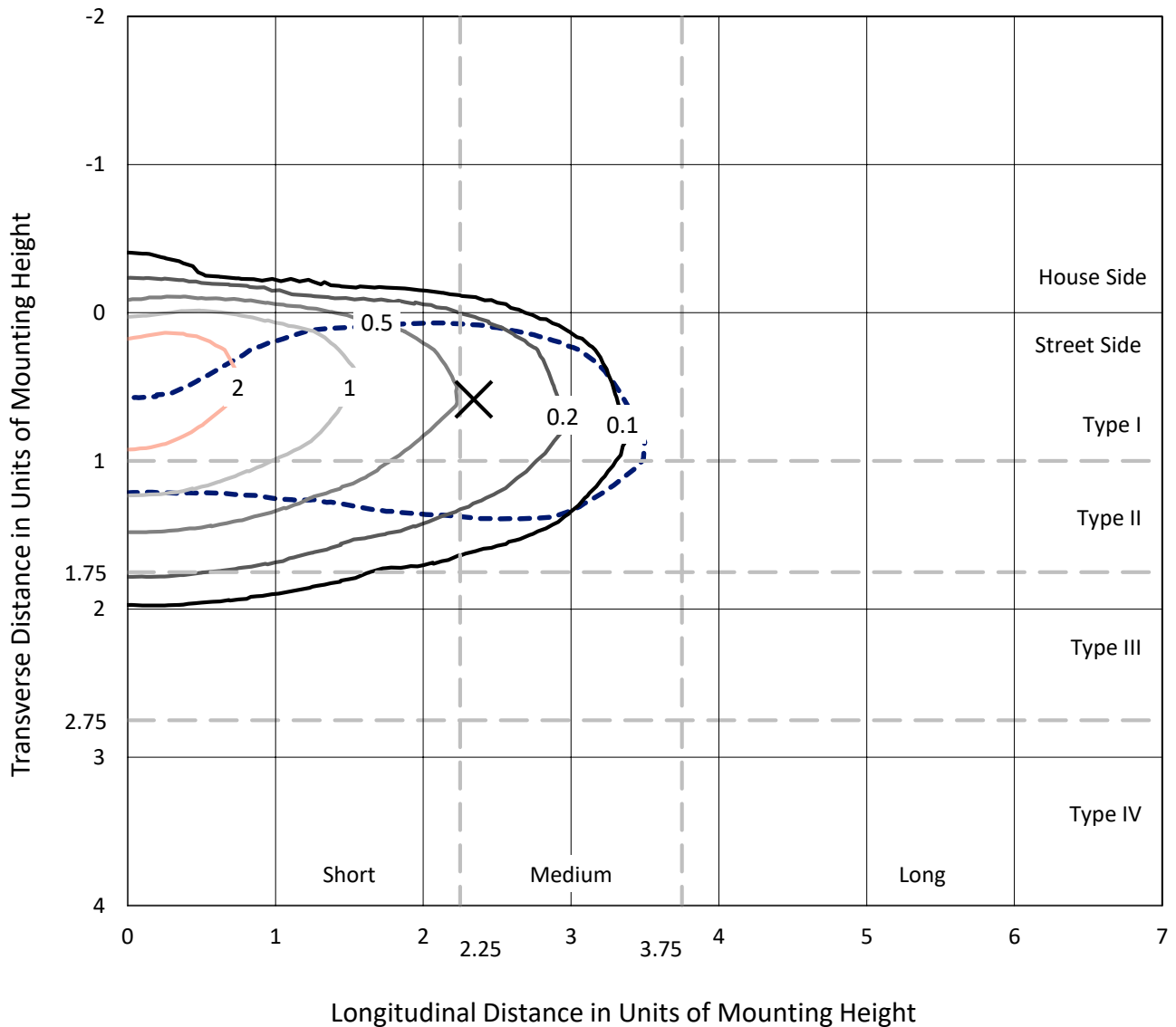
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

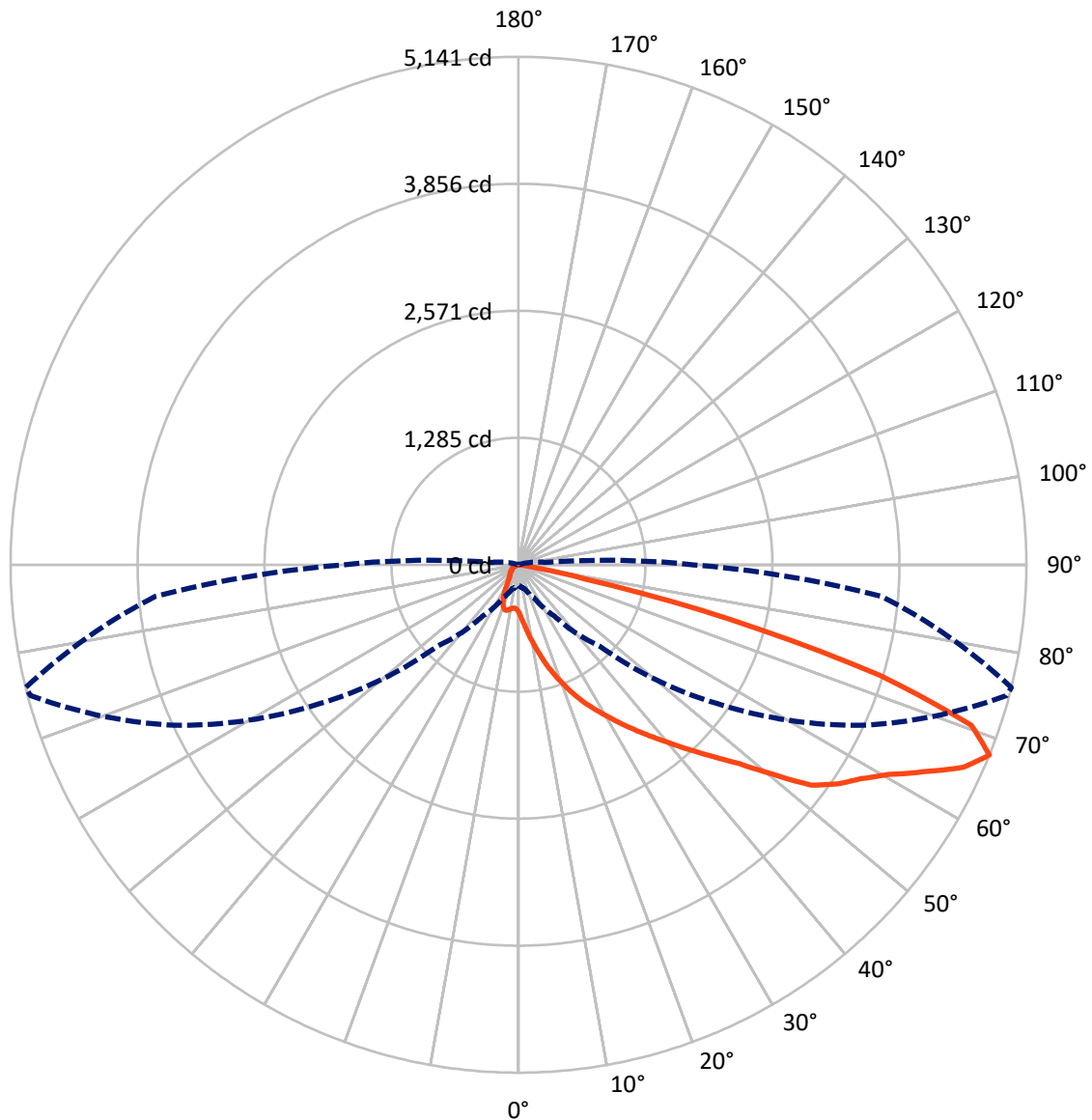
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.0	0.0	281.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5377.0	0.0	5377.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	5658.0	0.0	5658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.7	1.1
10°-20°	236.6	4.2
20°-30°	481.4	8.5
30°-40°	835.5	14.8
40°-50°	1180.5	20.9
50°-60°	1338.7	23.7
60°-70°	1110.4	19.6
70°-80°	402.2	7.1
80°-90°	13.0	0.2
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°	5658.0	100.0
0°-180°	5658.0	100.0

Coefficient of Utilization

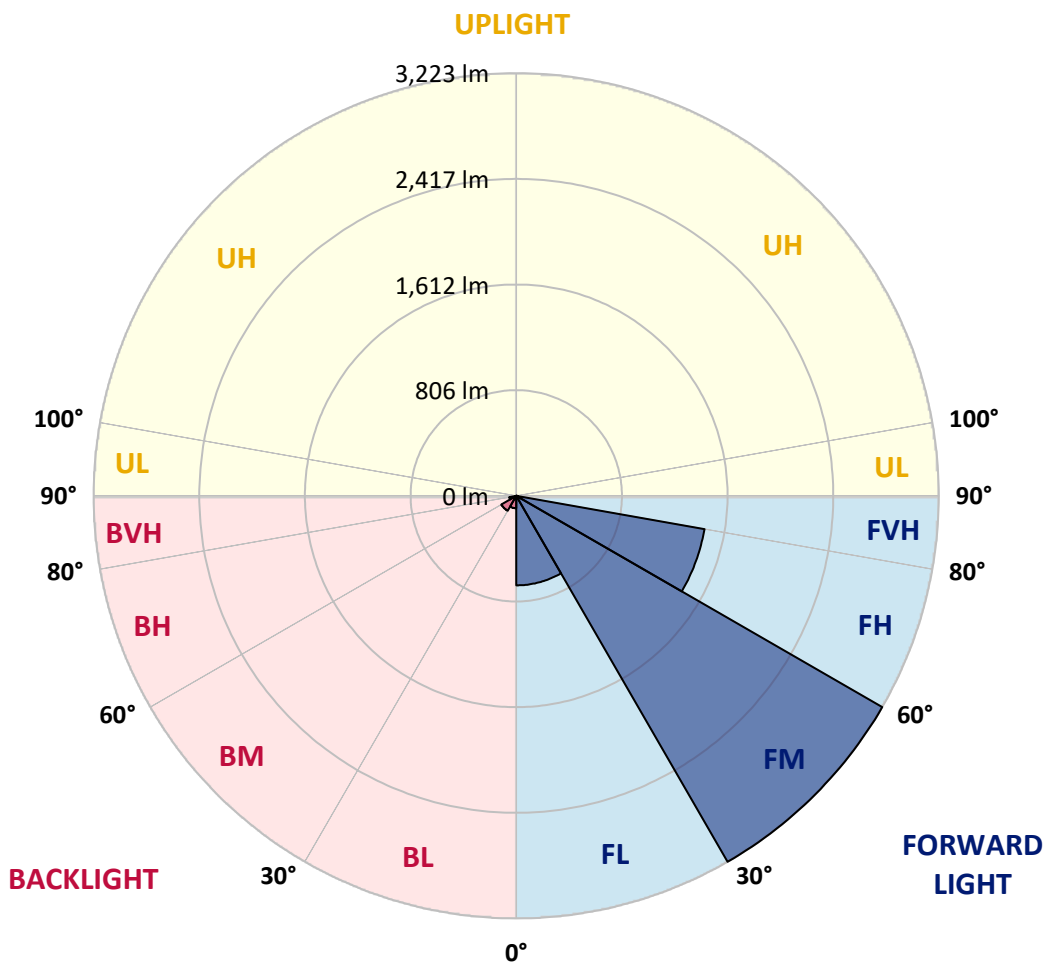


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	682.9	12.1			
FM (30°-60°)	3223.2	57.0			
FH (60°-80°)	1458.3	25.8			G1/1800
FVH (80°-90°)	12.6	0.2			G1/100
BL (0°-30°)	94.8	1.7	B0/110		
BM (30°-60°)	131.5	2.3	B0/220		
BH (60°-80°)	54.3	1.0	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	716.5	700.4	704.1	693.7	674.8	636.1	603.2	571.9	535.5	534.3	504.3
5°	966.1	952.5	950.8	929.7	895.5	829.8	765.8	692.9	611.6	605.7	541.9
7.5°	1192.7	1181.8	1177.8	1152.8	1089.1	1025.1	941.8	834.7	707.5	696.6	592.8
10°	1366.8	1361.5	1362.5	1344.7	1290.1	1230.6	1121.3	984.7	816.4	799.5	653.8
12.5°	1498.6	1499.9	1508.8	1497.9	1467.4	1423.3	1306.5	1144.6	936.9	913.8	723.4
15°	1595.6	1601.8	1618.1	1631.8	1629.5	1591.4	1484.3	1307.0	1064.8	1039.3	801.0
17.5°	1658.3	1665.2	1689.0	1719.3	1747.1	1738.1	1655.8	1463.7	1194.2	1164.7	884.1
20°	1713.3	1721.5	1747.1	1787.0	1838.8	1849.9	1795.9	1615.7	1323.4	1287.4	969.8
22.5°	1832.6	1832.3	1848.0	1871.3	1920.6	1949.4	1915.1	1756.7	1451.0	1413.6	1057.4
25°	2048.3	2040.1	2034.6	2016.3	2027.2	2045.0	2026.0	1888.6	1579.5	1541.5	1146.1
27.5°	2304.6	2309.6	2265.4	2216.1	2177.9	2159.6	2128.3	2010.8	1702.9	1661.3	1232.9
30°	2575.1	2576.6	2524.5	2461.5	2377.5	2307.8	2253.8	2127.6	1829.9	1784.5	1317.2
32.5°	2819.0	2809.4	2757.8	2672.0	2565.9	2487.6	2375.3	2258.0	1964.2	1920.3	1410.9
35°	3012.4	3001.0	2938.3	2860.2	2750.1	2671.3	2536.2	2388.2	2105.5	2062.6	1504.8
37.5°	3153.7	3140.3	3075.9	2995.5	2900.6	2854.7	2722.8	2529.7	2259.7	2213.6	1603.8
40°	3202.8	3191.2	3150.7	3092.0	3015.6	3005.2	2920.9	2692.6	2427.6	2378.5	1715.8
42.5°	3173.6	3162.1	3147.8	3127.9	3096.2	3106.1	3107.9	2878.3	2614.0	2565.7	1839.5
45°	3057.5	3047.4	3062.2	3091.2	3130.7	3179.8	3278.4	3077.9	2822.3	2770.7	1982.6
47.5°	2886.7	2879.3	2920.4	2992.8	3108.1	3243.5	3434.4	3287.6	3056.0	3008.2	2161.1
50°	2643.8	2642.5	2724.8	2857.0	3034.2	3274.2	3595.5	3526.1	3380.8	3330.5	2409.2
52.5°	2265.4	2267.9	2429.8	2641.3	2904.6	3253.4	3699.1	3832.5	3758.6	3706.3	2624.2
55°	1905.2	1920.1	2034.9	2339.8	2705.7	3176.0	3734.8	3975.6	3967.1	3917.5	2743.7
57.5°	1552.4	1579.5	1690.0	1974.9	2415.4	2997.8	3715.2	4037.5	4122.3	4084.4	2901.3
60°	1170.2	1182.6	1310.0	1576.2	2042.8	2672.5	3573.2	4071.3	4334.5	4308.3	3130.2
62.5°	744.5	775.5	888.5	1145.4	1590.6	2220.8	3333.7	4070.8	4600.1	4614.4	3425.4
65°	392.2	428.4	488.4	709.8	1093.1	1716.3	2973.5	4032.6	4925.8	4945.9	3656.2
67.5°	211.5	221.9	253.6	368.4	633.9	1162.7	2444.2	3844.2	5114.5	5141.0	3688.5
70°	154.7	160.4	172.3	203.8	319.1	675.3	1783.5	3417.0	4871.3	4861.4	3277.2
72.5°	118.8	127.7	136.6	149.2	183.5	360.5	1110.4	2675.7	3886.8	3821.4	2449.6
75°	93.7	95.2	107.8	119.2	137.6	205.3	493.1	1558.4	2372.3	2217.3	1270.3
77.5°	74.9	75.9	83.3	93.2	110.6	134.9	152.7	613.1	757.4	675.8	275.7
80°	44.4	46.9	62.0	71.9	91.7	85.0	55.8	133.1	118.3	107.1	46.4
82.5°	24.8	26.8	35.0	56.8	64.0	40.7	27.8	35.9	27.8	27.0	13.1
85°	0.0	1.2	22.6	35.2	26.0	8.9	11.7	11.9	8.2	7.7	5.2
87.5°	0.0	0.0	6.9	6.7	1.0	1.5	2.7	4.0	3.2	3.2	2.7
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°	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0	480.0
2.5°	489.4	476.0	450.7	425.9	405.1	388.0	372.6	366.4	361.5	360.7	356.7
5°	511.2	484.2	435.8	396.2	369.6	350.8	334.7	324.8	317.1	314.1	311.4
7.5°	544.2	503.3	433.9	388.2	356.5	324.8	295.0	262.8	242.7	235.0	230.6
10°	584.3	528.6	441.3	386.0	330.5	263.5	214.2	173.3	156.7	151.2	149.7
12.5°	631.2	560.0	454.2	372.1	274.9	187.2	147.8	133.9	130.2	128.4	128.4
15°	685.0	594.5	463.4	332.0	203.3	141.6	127.9	121.5	117.5	115.3	115.5
17.5°	740.0	628.2	458.9	273.7	150.0	125.9	115.8	108.8	103.4	101.1	100.7
20°	795.6	659.5	434.1	203.8	126.9	114.3	102.9	95.2	89.7	87.5	87.0
22.5°	853.1	686.0	390.5	149.5	114.0	101.4	90.2	82.6	77.3	75.4	74.4
25°	909.1	707.5	329.5	121.0	101.9	89.2	78.6	71.4	66.7	64.7	64.5
27.5°	961.4	721.2	258.8	106.9	91.2	78.3	68.7	62.2	58.3	56.8	56.5
30°	1008.5	722.4	191.4	96.4	81.8	68.9	60.0	54.3	50.8	49.3	48.8
32.5°	1056.1	712.0	139.3	87.0	73.1	60.7	52.1	47.6	45.1	43.9	43.9
35°	1101.0	688.0	108.6	78.8	64.7	52.8	45.9	42.6	41.2	39.9	39.9
37.5°	1144.9	653.5	92.2	71.6	56.8	46.1	40.4	38.4	37.2	35.9	35.9
40°	1189.5	610.1	83.8	65.0	50.3	40.9	35.9	34.2	33.0	32.0	31.7
42.5°	1244.3	560.0	78.3	58.8	44.6	36.2	31.7	29.7	28.8	27.8	27.3
45°	1307.7	516.9	73.9	52.6	39.9	32.2	27.5	25.5	24.0	22.8	22.6
47.5°	1399.2	485.7	67.9	45.9	35.5	28.0	23.8	21.6	19.3	18.1	17.8
50°	1516.0	459.9	60.2	39.9	31.0	23.8	19.8	17.1	15.1	13.9	13.9
52.5°	1574.0	426.2	53.3	34.7	26.0	20.1	16.1	12.9	11.9	10.7	10.7
55°	1597.3	400.4	46.4	29.5	21.6	16.6	12.6	9.9	9.2	8.4	8.2
57.5°	1662.8	392.9	40.4	25.0	17.8	13.1	9.7	7.4	6.9	5.9	5.9
60°	1768.1	396.7	35.0	21.3	14.4	10.2	7.2	5.7	5.2	4.2	4.2
62.5°	1881.9	392.0	29.5	18.3	11.2	7.4	5.0	4.2	4.2	2.5	2.2
65°	1903.7	349.1	25.3	15.1	8.7	5.5	3.2	2.7	3.7	0.5	0.0
67.5°	1766.9	270.7	21.8	11.7	6.4	4.2	2.5	1.2	3.2	0.0	0.0
70°	1412.9	172.1	17.6	8.4	5.0	3.5	2.0	0.5	2.5	0.0	0.0
72.5°	999.1	99.9	13.9	5.9	4.2	2.7	1.5	0.0	1.5	0.0	0.0
75°	505.2	53.3	8.7	4.5	3.2	2.0	1.0	0.0	0.2	0.0	0.0
77.5°	109.3	24.8	5.5	3.2	2.2	1.2	0.5	0.0	0.0	0.0	0.0
80°	23.8	10.9	3.5	2.0	1.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	5.7	1.7	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	3.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.5	1.0	0.2	0.2	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)