

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: P382784

Luminaire Tested: **GLEON-SA1C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382784
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-SA1C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5568.8 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

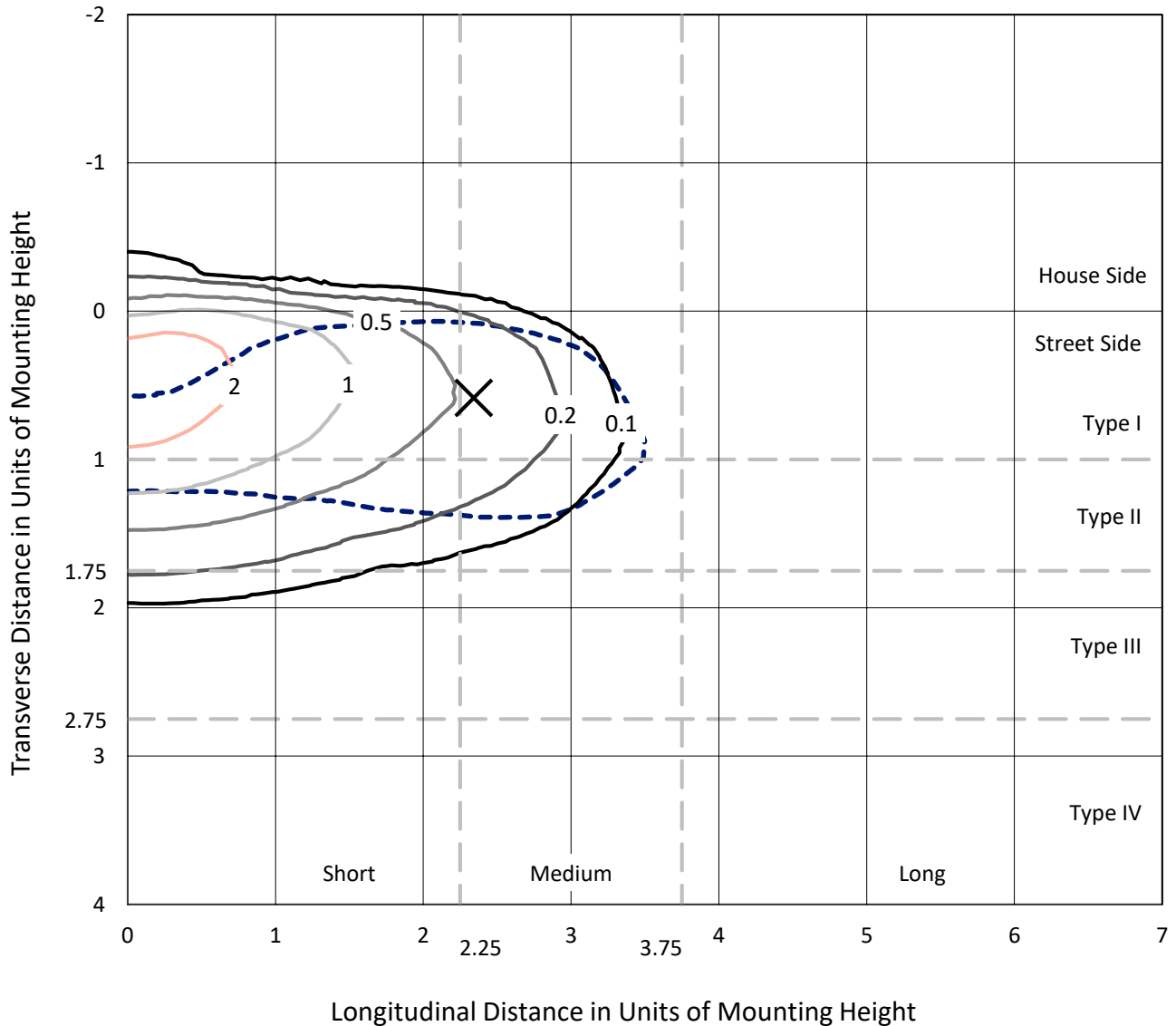
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

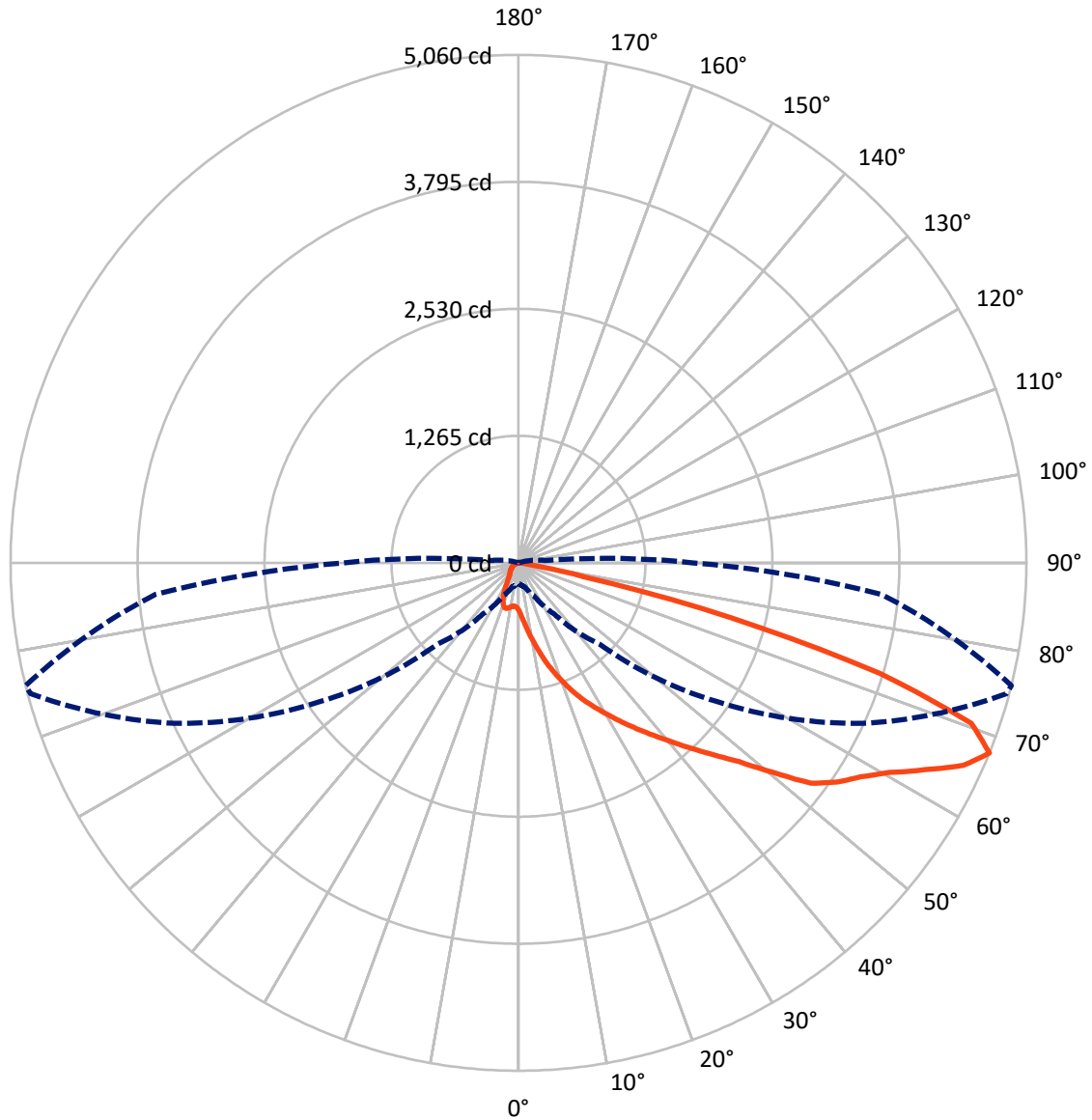
× Max cd
 - - - 1/2 Max cd



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	276.5	0.0	276.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5292.3	0.0	5292.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	5568.8	0.0	5568.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	1.1
10°-20°	232.9	4.2
20°-30°	473.8	8.5
30°-40°	822.4	14.8
40°-50°	1161.9	20.9
50°-60°	1317.6	23.7
60°-70°	1092.9	19.6
70°-80°	395.9	7.1
80°-90°	12.8	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°	5568.8	100.0
0°-180°	5568.8	100.0

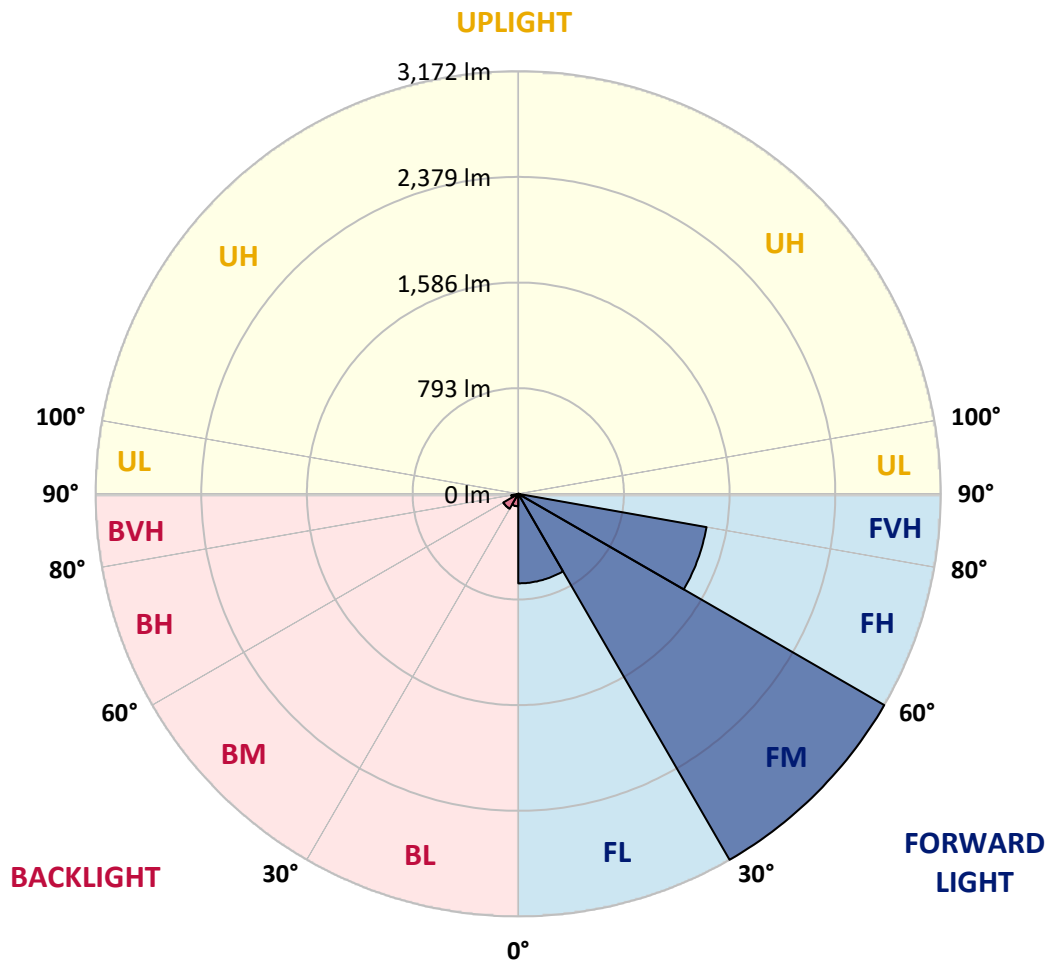


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.1	12.1			
FM (30°-60°)	3172.4	57.0			
FH (60°-80°)	1435.3	25.8			G1/1800
FVH (80°-90°)	12.4	0.2			G1/100
BL (0°-30°)	93.3	1.7	B0/110		
BM (30°-60°)	129.4	2.3	B0/220		
BH (60°-80°)	53.5	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°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4
2.5°	705.2	689.3	693.0	682.7	664.2	626.1	593.7	562.9	527.1	525.9	496.3
5°	950.9	937.5	935.7	915.1	881.3	816.7	753.7	682.0	602.0	596.1	533.4
7.5°	1173.9	1163.1	1159.3	1134.6	1071.9	1009.0	927.0	821.5	696.4	685.6	583.4
10°	1345.2	1340.1	1341.1	1323.4	1269.8	1211.2	1103.6	969.2	803.6	786.9	643.4
12.5°	1475.0	1476.2	1485.0	1474.3	1444.3	1400.9	1285.9	1126.6	922.1	899.4	712.0
15°	1570.4	1576.6	1592.7	1606.1	1603.8	1566.3	1460.9	1286.4	1048.0	1022.8	788.4
17.5°	1632.2	1639.0	1662.4	1692.2	1719.5	1710.7	1629.7	1440.6	1175.3	1146.4	870.2
20°	1686.3	1694.4	1719.5	1758.8	1809.8	1820.8	1767.6	1590.2	1302.5	1267.1	954.6
22.5°	1803.7	1803.5	1818.8	1841.8	1890.3	1918.6	1885.0	1729.0	1428.2	1391.4	1040.7
25°	2016.0	2008.0	2002.5	1984.5	1995.2	2012.8	1994.0	1858.8	1554.6	1517.2	1128.0
27.5°	2268.3	2273.2	2229.8	2181.1	2143.6	2125.5	2094.8	1979.2	1676.0	1635.1	1213.4
30°	2534.5	2536.0	2484.7	2422.8	2340.0	2271.5	2218.3	2094.0	1801.0	1756.3	1296.4
32.5°	2774.6	2765.1	2714.3	2629.9	2525.4	2448.4	2337.8	2222.4	1933.2	1890.1	1388.7
35°	2964.9	2953.7	2892.0	2815.1	2706.8	2629.2	2496.2	2350.5	2072.3	2030.1	1481.1
37.5°	3104.0	3090.8	3027.3	2948.3	2854.8	2809.7	2679.9	2489.8	2224.1	2178.7	1578.5
40°	3152.3	3140.8	3101.0	3043.3	2968.1	2957.8	2874.8	2650.2	2389.3	2341.0	1688.8
42.5°	3123.5	3112.3	3098.1	3078.6	3047.4	3057.2	3058.8	2832.9	2572.8	2525.2	1810.6
45°	3009.4	2999.3	3013.9	3042.5	3081.3	3129.6	3226.7	3029.3	2777.8	2727.0	1951.3
47.5°	2841.2	2833.9	2874.4	2945.6	3059.1	3192.3	3380.2	3235.7	3007.9	2960.7	2127.0
50°	2602.1	2600.9	2681.8	2811.9	2986.4	3222.6	3538.9	3470.5	3327.5	3277.9	2371.3
52.5°	2229.8	2232.2	2391.5	2599.7	2858.7	3202.1	3640.8	3772.1	3699.4	3647.8	2582.8
55°	1875.2	1889.8	2002.8	2302.9	2663.1	3126.0	3676.0	3912.9	3904.6	3855.8	2700.4
57.5°	1527.9	1554.6	1663.4	1943.8	2377.3	2950.5	3656.7	3973.9	4057.4	4020.0	2855.6
60°	1151.7	1163.9	1289.4	1551.4	2010.7	2630.4	3516.9	4007.1	4266.2	4240.3	3080.8
62.5°	732.8	763.2	874.5	1127.3	1565.6	2185.8	3281.1	4006.6	4527.5	4541.7	3371.5
65°	386.0	421.6	480.7	698.6	1075.8	1689.3	2926.6	3969.0	4848.1	4867.9	3598.6
67.5°	208.1	218.4	249.7	362.6	624.0	1144.4	2405.6	3783.6	5033.8	5060.0	3630.3
70°	152.2	157.9	169.5	200.6	314.0	664.7	1755.4	3363.2	4794.5	4784.7	3225.5
72.5°	116.9	125.7	134.4	146.9	180.5	354.8	1092.9	2633.6	3825.5	3761.1	2411.0
75°	92.2	93.7	106.1	117.4	135.4	202.1	485.3	1533.8	2334.9	2182.4	1250.3
77.5°	73.7	74.7	82.0	91.8	108.8	132.7	150.4	603.5	745.4	665.1	271.4
80°	43.7	46.1	61.0	70.8	90.3	83.7	54.9	131.1	116.4	105.5	45.6
82.5°	24.4	26.4	34.4	55.9	63.0	40.1	27.3	35.4	27.3	26.6	12.9
85°	0.0	1.2	22.2	34.7	25.6	8.8	11.5	11.7	8.0	7.5	5.1
87.5°	0.0	0.0	6.8	6.6	0.9	1.5	2.7	3.9	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°	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4	472.4
2.5°	481.7	468.5	443.6	419.2	398.7	381.8	366.8	360.6	355.8	355.0	351.1
5°	503.1	476.6	429.0	389.9	363.8	345.2	329.4	319.6	312.1	309.2	306.5
7.5°	535.5	495.3	427.0	382.1	350.9	319.6	290.4	258.7	238.8	231.3	226.9
10°	575.1	520.2	434.3	379.9	325.3	259.3	210.8	170.6	154.2	148.9	147.4
12.5°	621.2	551.2	447.0	366.3	270.6	184.3	145.4	131.7	128.1	126.4	126.4
15°	674.2	585.1	456.1	326.7	200.1	139.4	125.9	119.5	115.7	113.5	113.7
17.5°	728.4	618.3	451.6	269.4	147.7	124.0	113.9	107.1	101.7	99.6	99.0
20°	783.1	649.0	427.2	200.6	124.9	112.5	101.3	93.7	88.3	86.2	85.6
22.5°	839.6	675.2	384.3	147.1	112.3	99.8	88.8	81.2	76.1	74.2	73.2
25°	894.8	696.4	324.3	119.1	100.3	87.8	77.3	70.2	65.7	63.7	63.4
27.5°	946.3	709.8	254.8	105.2	89.8	77.1	67.6	61.2	57.4	55.9	55.6
30°	992.7	711.1	188.4	94.9	80.5	67.8	59.1	53.5	50.0	48.5	48.1
32.5°	1039.4	700.8	137.1	85.6	72.0	59.8	51.2	46.9	44.4	43.2	43.2
35°	1083.7	677.1	106.8	77.6	63.7	52.0	45.2	42.0	40.5	39.3	39.3
37.5°	1126.8	643.2	90.7	70.5	55.9	45.4	39.8	37.8	36.6	35.4	35.4
40°	1170.8	600.5	82.4	63.9	49.6	40.2	35.4	33.6	32.4	31.5	31.2
42.5°	1224.7	551.2	77.1	57.8	43.9	35.6	31.2	29.3	28.3	27.3	26.8
45°	1287.1	508.7	72.8	51.7	39.3	31.8	27.1	25.2	23.7	22.5	22.2
47.5°	1377.2	478.0	66.9	45.2	34.9	27.6	23.4	21.2	19.0	17.8	17.6
50°	1492.1	452.6	59.3	39.3	30.5	23.4	19.6	16.9	14.9	13.7	13.7
52.5°	1549.2	419.5	52.4	34.2	25.6	19.7	15.8	12.7	11.7	10.5	10.5
55°	1572.2	394.0	45.6	29.1	21.2	16.3	12.5	9.8	9.0	8.3	8.0
57.5°	1636.5	386.8	39.8	24.7	17.6	12.9	9.5	7.4	6.8	5.9	5.9
60°	1740.2	390.4	34.4	21.0	14.2	10.0	7.1	5.6	5.1	4.2	4.2
62.5°	1852.3	385.8	29.1	18.1	11.0	7.4	4.8	4.2	4.2	2.4	2.2
65°	1873.7	343.6	24.9	14.9	8.6	5.4	3.2	2.7	3.6	0.5	0.0
67.5°	1739.0	266.4	21.5	11.5	6.3	4.2	2.4	1.2	3.2	0.0	0.0
70°	1390.6	169.4	17.3	8.3	4.8	3.4	2.0	0.5	2.4	0.0	0.0
72.5°	983.3	98.4	13.7	5.9	4.2	2.7	1.5	0.0	1.5	0.0	0.0
75°	497.3	52.4	8.6	4.4	3.2	2.0	0.9	0.0	0.3	0.0	0.0
77.5°	107.6	24.4	5.4	3.2	2.2	1.2	0.5	0.0	0.0	0.0	0.0
80°	23.4	10.7	3.4	2.0	1.2	0.7	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	5.6	1.7	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.9	0.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.9	0.3	0.3	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)