

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: P382812

Luminaire Tested: **GLEON-SA1D-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382812  
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-SA1D-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA 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: 6108.2 lumens  
Efficiency: N/A  
Efficacy: 91.2 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

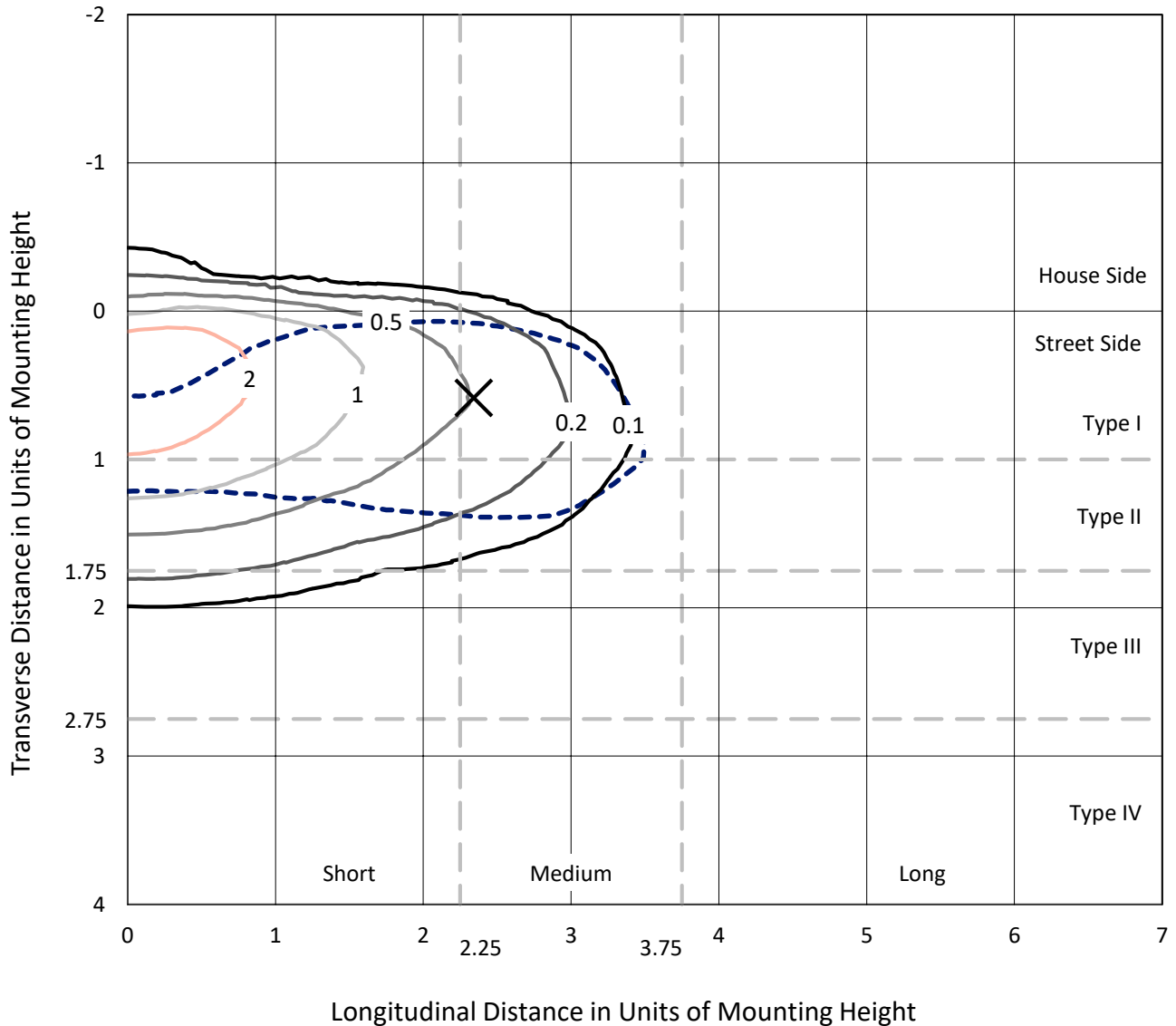
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

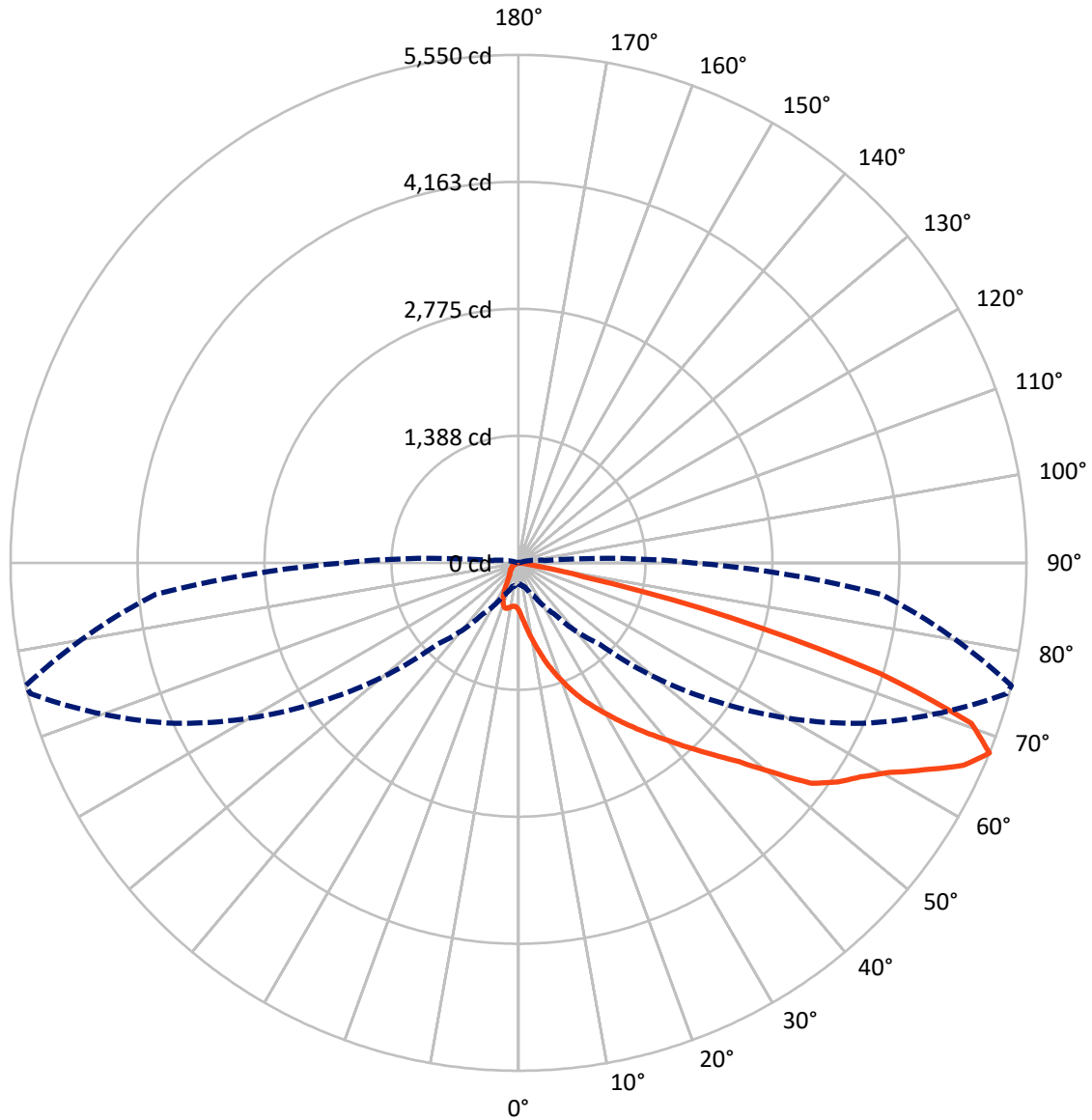
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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
<b>House Side</b>	Lumens	303.3	0.0	303.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5804.8	0.0	5804.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6108.2	0.0	6108.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	1.1
10°-20°	255.4	4.2
20°-30°	519.7	8.5
30°-40°	902.0	14.8
40°-50°	1274.4	20.9
50°-60°	1445.2	23.7
60°-70°	1198.7	19.6
70°-80°	434.2	7.1
80°-90°	14.1	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°	6108.2	100.0
0°-180°	6108.2	100.0

**Coefficient of Utilization**

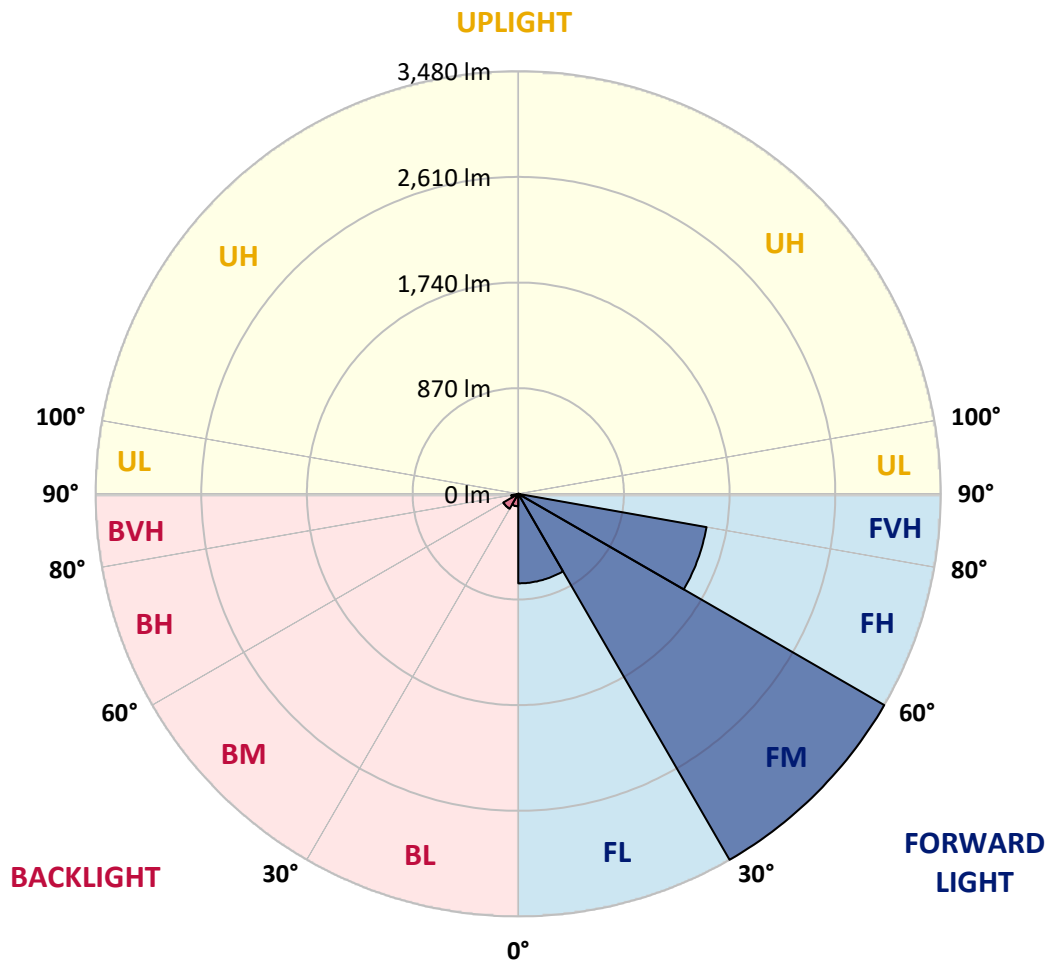


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	737.2	12.1			
FM (30°-60°)	3479.7	57.0			
FH (60°-80°)	1574.3	25.8			G1/1800
FVH (80°-90°)	13.6	0.2			G1/100
BL (0°-30°)	102.3	1.7	B0/110		
BM (30°-60°)	142.0	2.3	B0/220		
BH (60°-80°)	58.6	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°	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1
2.5°	773.5	756.0	760.0	748.9	728.5	686.7	651.2	617.4	578.1	576.7	544.4
5°	1043.0	1028.2	1026.4	1003.6	966.7	895.8	826.7	748.0	660.3	653.9	585.0
7.5°	1287.6	1275.8	1271.6	1244.5	1175.7	1106.7	1016.8	901.2	763.9	752.0	639.9
10°	1475.5	1469.9	1470.9	1451.6	1392.8	1328.6	1210.5	1063.1	881.3	863.2	705.7
12.5°	1617.9	1619.2	1628.8	1617.1	1584.2	1536.5	1410.5	1235.7	1011.4	986.5	781.0
15°	1722.5	1729.2	1746.8	1761.6	1759.2	1718.0	1602.4	1411.0	1149.5	1122.0	864.8
17.5°	1790.2	1797.7	1823.4	1856.1	1886.0	1876.4	1787.5	1580.2	1289.3	1257.4	954.4
20°	1849.7	1858.4	1886.0	1929.1	1985.0	1997.1	1938.7	1744.2	1428.6	1389.9	1047.0
22.5°	1978.4	1978.1	1995.0	2020.2	2073.4	2104.5	2067.5	1896.4	1566.5	1526.1	1141.5
25°	2211.2	2202.4	2196.5	2176.7	2188.5	2207.8	2187.2	2038.9	1705.1	1664.2	1237.3
27.5°	2488.0	2493.3	2445.7	2392.4	2351.2	2331.4	2297.7	2170.8	1838.4	1793.4	1331.0
30°	2779.9	2781.6	2725.3	2657.4	2566.7	2491.4	2433.1	2296.9	1975.4	1926.4	1422.0
32.5°	3043.4	3032.8	2977.2	2884.6	2770.0	2685.5	2564.3	2437.7	2120.5	2073.2	1523.2
35°	3252.0	3239.7	3172.0	3087.7	2968.9	2883.8	2737.9	2578.2	2273.1	2226.8	1624.5
37.5°	3404.6	3390.2	3320.6	3233.9	3131.4	3081.8	2939.5	2731.0	2439.5	2389.8	1731.4
40°	3457.6	3445.0	3401.5	3338.0	3255.6	3244.3	3153.3	2906.8	2620.7	2567.7	1852.3
42.5°	3426.0	3413.7	3398.2	3376.8	3342.6	3353.3	3355.2	3107.3	2821.9	2769.8	1985.9
45°	3300.8	3289.9	3305.9	3337.2	3379.7	3432.8	3539.2	3322.7	3046.8	2991.1	2140.3
47.5°	3116.4	3108.4	3152.8	3231.0	3355.3	3501.5	3707.6	3549.2	3299.2	3247.6	2333.0
50°	2854.1	2852.8	2941.6	3084.3	3275.6	3534.7	3881.6	3806.6	3649.8	3595.5	2600.9
52.5°	2445.7	2448.4	2623.1	2851.5	3135.7	3512.2	3993.5	4137.5	4057.6	4001.2	2832.9
55°	2056.8	2072.9	2196.8	2526.0	2921.1	3428.7	4032.0	4291.8	4282.8	4229.2	2961.9
57.5°	1675.9	1705.1	1824.5	2132.0	2607.6	3236.3	4010.9	4358.8	4450.3	4409.4	3132.1
60°	1263.3	1276.6	1414.2	1701.7	2205.3	2885.2	3857.4	4395.1	4679.3	4651.0	3379.2
62.5°	803.7	837.2	959.2	1236.5	1717.2	2397.5	3598.9	4394.7	4966.1	4981.5	3698.0
65°	423.4	462.5	527.3	766.3	1180.0	1852.8	3210.0	4353.4	5317.7	5339.4	3947.2
67.5°	228.3	239.5	273.8	397.7	684.3	1255.3	2638.6	4150.0	5521.4	5550.1	3981.9
70°	167.0	173.2	186.0	220.0	344.5	729.0	1925.4	3688.8	5258.9	5248.2	3537.9
72.5°	128.2	137.9	147.5	161.2	198.0	389.1	1198.7	2888.6	4196.1	4125.4	2644.6
75°	101.2	102.7	116.4	128.7	148.6	221.6	532.4	1682.4	2561.0	2393.8	1371.4
77.5°	80.9	81.9	89.9	100.6	119.3	145.6	164.9	661.9	817.6	729.6	297.6
80°	47.9	50.6	66.9	77.6	99.0	91.8	60.2	143.7	127.6	115.6	50.0
82.5°	26.7	28.9	37.7	61.3	69.0	43.9	30.0	38.8	30.0	29.2	14.2
85°	0.0	1.3	24.3	38.0	28.1	9.6	12.6	12.9	8.8	8.3	5.6
87.5°	0.0	0.0	7.5	7.3	1.0	1.6	3.0	4.3	3.4	3.4	3.0
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°	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1	518.1
2.5°	528.3	513.8	486.5	459.8	437.4	418.8	402.2	395.5	390.2	389.4	385.1
5°	551.8	522.7	470.5	427.7	399.1	378.7	361.3	350.6	342.3	339.1	336.2
7.5°	587.4	543.3	468.4	419.1	384.8	350.6	318.5	283.7	262.0	253.8	248.9
10°	630.8	570.6	476.4	416.7	356.8	284.5	231.2	187.1	169.2	163.3	161.6
12.5°	681.4	604.6	490.3	401.7	296.8	202.1	159.5	144.5	140.5	138.6	138.6
15°	739.5	641.8	500.2	358.4	219.5	152.9	138.1	131.2	126.9	124.5	124.7
17.5°	798.9	678.2	495.4	295.5	161.9	136.0	125.0	117.5	111.6	109.2	108.6
20°	858.9	711.9	468.7	220.0	137.0	123.3	111.0	102.7	96.9	94.5	93.9
22.5°	920.9	740.6	421.5	161.3	123.2	109.5	97.4	89.1	83.5	81.3	80.3
25°	981.4	763.9	355.7	130.6	110.0	96.3	84.9	77.0	72.0	69.9	69.6
27.5°	1037.9	778.6	279.4	115.3	98.5	84.6	74.2	67.2	62.9	61.3	61.0
30°	1088.8	779.9	206.6	104.1	88.3	74.4	64.7	58.6	54.9	53.3	52.7
32.5°	1140.1	768.6	150.4	93.9	79.0	65.6	56.2	51.4	48.7	47.4	47.4
35°	1188.6	742.7	117.2	85.1	69.9	57.0	49.6	46.0	44.4	43.1	43.1
37.5°	1236.0	705.5	99.6	77.3	61.3	49.7	43.6	41.5	40.1	38.8	38.8
40°	1284.1	658.7	90.5	70.1	54.3	44.2	38.8	36.9	35.6	34.6	34.3
42.5°	1343.3	604.6	84.6	63.4	48.2	39.0	34.3	32.1	31.0	30.0	29.4
45°	1411.8	558.0	79.7	56.7	43.1	34.7	29.7	27.6	26.0	24.6	24.3
47.5°	1510.6	524.3	73.3	49.6	38.3	30.3	25.7	23.3	20.9	19.6	19.3
50°	1636.6	496.5	65.0	43.1	33.4	25.7	21.4	18.4	16.3	15.0	15.0
52.5°	1699.2	460.1	57.6	37.4	28.1	21.7	17.4	13.9	12.9	11.6	11.6
55°	1724.4	432.2	50.0	31.9	23.3	17.9	13.7	10.7	9.9	9.1	8.8
57.5°	1795.1	424.2	43.6	27.0	19.3	14.2	10.4	8.0	7.5	6.4	6.4
60°	1908.8	428.2	37.7	23.0	15.6	11.0	7.7	6.1	5.6	4.6	4.6
62.5°	2031.6	423.1	31.9	19.8	12.0	8.0	5.3	4.6	4.6	2.7	2.4
65°	2055.2	376.8	27.3	16.3	9.4	5.9	3.4	3.0	4.0	0.6	0.0
67.5°	1907.4	292.2	23.6	12.6	7.0	4.6	2.7	1.3	3.4	0.0	0.0
70°	1525.3	185.8	19.0	9.1	5.3	3.7	2.1	0.6	2.7	0.0	0.0
72.5°	1078.5	107.9	15.0	6.4	4.6	3.0	1.6	0.0	1.6	0.0	0.0
75°	545.4	57.6	9.4	4.8	3.4	2.1	1.0	0.0	0.3	0.0	0.0
77.5°	118.0	26.7	5.9	3.4	2.4	1.3	0.6	0.0	0.0	0.0	0.0
80°	25.7	11.7	3.7	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	9.4	6.1	1.9	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	3.2	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.0	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)