

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: P382820

Luminaire Tested: **GLEON-SA1D-735-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5485 lumens  
Efficiency: N/A  
Efficacy: 81.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

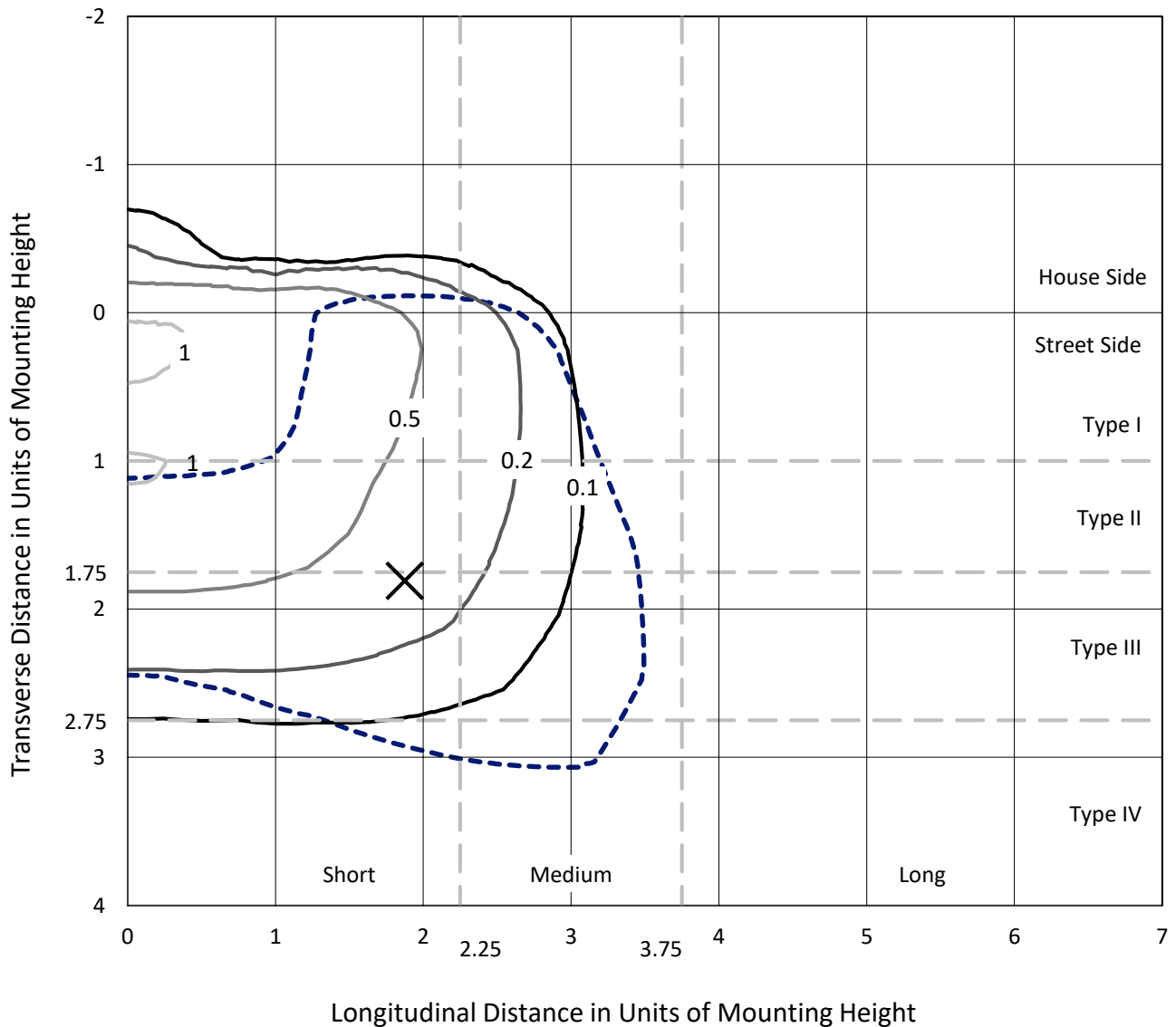
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

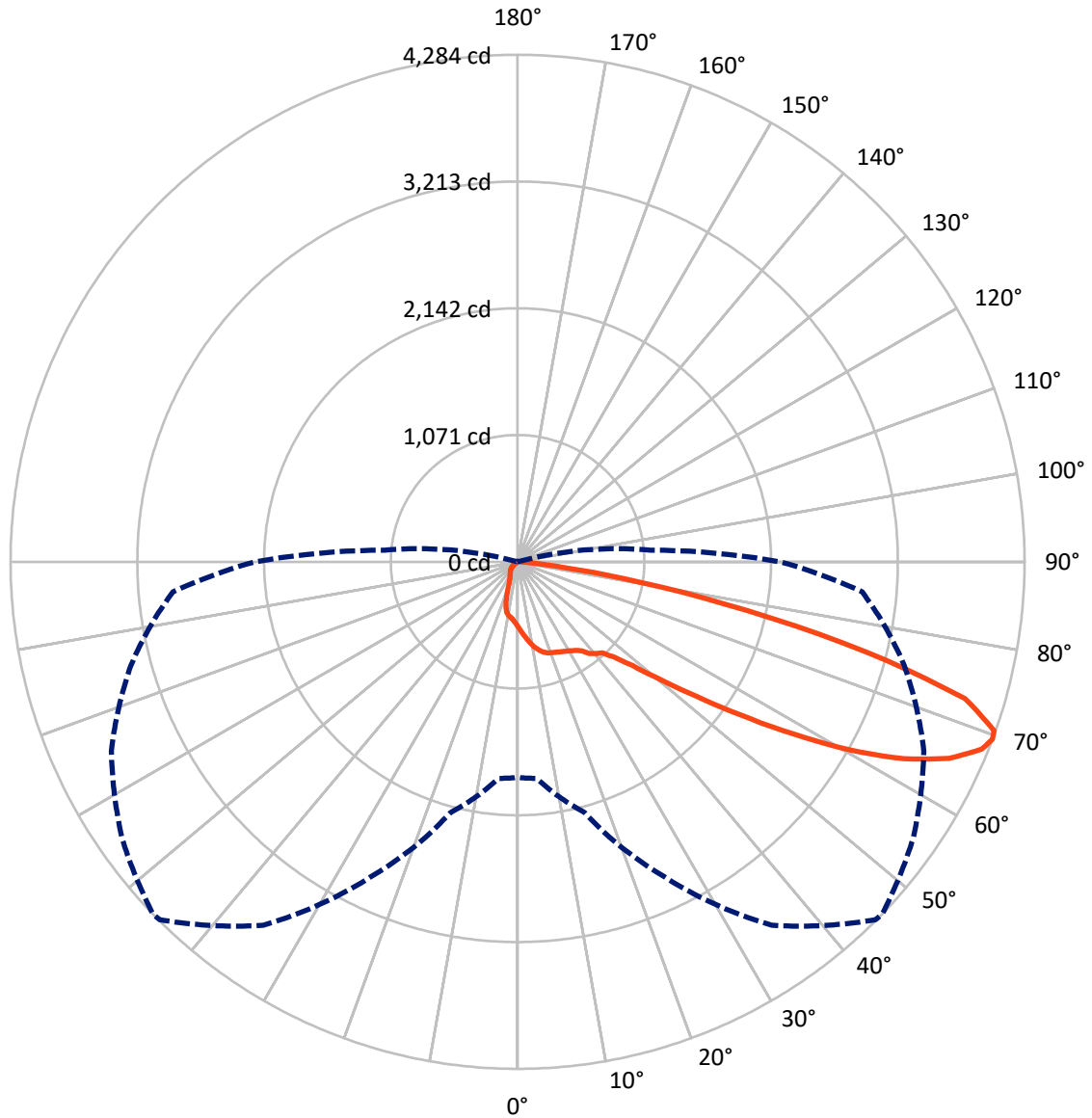
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	562.9	0.0	562.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	4922.1	0.0	4922.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	5485.0	0.0	5485.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	1.0
10°-20°	166.0	3.0
20°-30°	261.0	4.8
30°-40°	374.3	6.8
40°-50°	646.9	11.8
50°-60°	1277.9	23.3
60°-70°	1786.0	32.6
70°-80°	862.8	15.7
80°-90°	55.5	1.0
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°	5485.0	100.0
0°-180°	5485.0	100.0

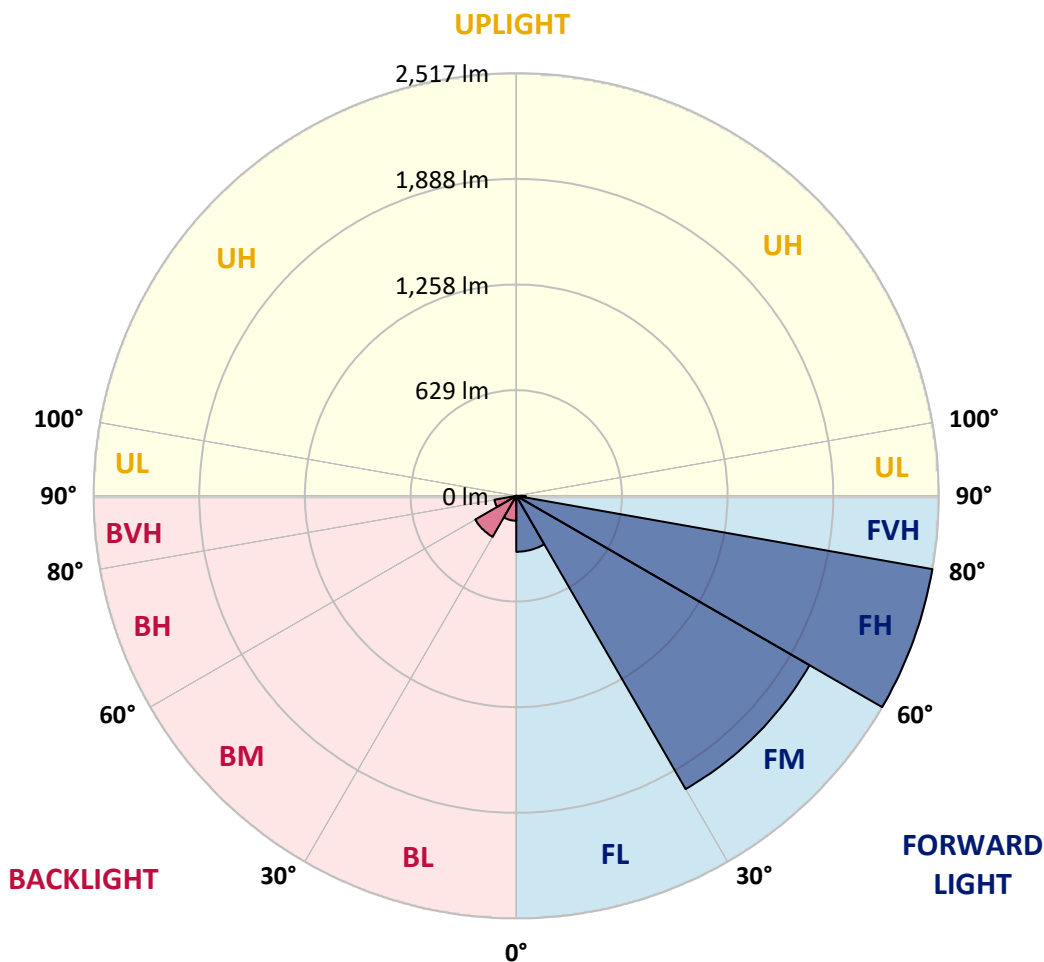


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.3	6.1			
FM (30°-60°)	2016.9	36.8			
FH (60°-80°)	2516.8	45.9			G2/5000
FVH (80°-90°)	55.0	1.0			G1/100
BL (0°-30°)	148.4	2.7	B1/500		
BM (30°-60°)	282.1	5.1	B1/1000		
BH (60°-80°)	132.0	2.4	B1/500		G1/500
BVH (80°-90°)	0.5	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	610.5	609.8	606.2	604.6	595.8	590.7	588.6	582.2	573.0	563.7	553.4
5°	679.9	679.7	673.0	666.6	650.1	634.7	631.9	617.0	596.1	576.5	557.1
7.5°	750.9	747.6	740.9	728.6	704.6	679.9	677.6	656.6	627.0	598.7	570.7
10°	811.1	809.0	800.3	781.6	753.5	725.5	722.6	696.7	663.3	628.5	592.7
12.5°	858.0	856.4	844.8	821.4	791.5	762.5	758.7	735.5	699.8	660.9	618.7
15°	886.5	885.7	871.6	846.6	817.2	792.1	788.7	768.4	735.3	694.7	647.1
17.5°	893.2	893.4	878.7	853.6	829.4	811.4	808.8	793.4	765.6	725.2	675.4
20°	878.3	881.3	868.2	846.3	831.4	821.9	819.9	810.6	787.2	749.2	697.9
22.5°	857.1	858.7	849.7	835.0	828.9	830.7	829.6	824.5	804.7	769.7	720.4
25°	844.3	844.3	838.9	826.6	830.7	841.7	841.9	840.9	825.3	794.9	747.6
27.5°	843.8	842.2	836.1	826.8	838.1	855.1	856.1	863.1	853.3	825.5	781.6
30°	864.4	862.5	849.4	837.4	851.7	870.0	872.6	887.8	882.8	858.7	819.4
32.5°	912.5	906.0	877.0	857.1	867.9	889.8	893.2	917.3	925.0	899.6	855.9
35°	978.3	958.0	916.1	894.7	895.7	918.6	921.7	957.2	980.1	937.1	884.1
37.5°	1069.0	1059.0	990.9	933.8	938.4	973.1	982.1	1020.7	1014.3	957.7	916.3
40°	1268.1	1252.4	1179.9	1043.3	979.3	1017.3	1020.2	1040.7	1041.3	1004.2	983.2
42.5°	1539.2	1532.8	1456.4	1242.1	1059.8	1047.0	1052.1	1086.8	1125.6	1102.5	1101.5
45°	1839.2	1835.9	1754.9	1505.9	1222.6	1143.8	1150.3	1196.9	1271.2	1276.3	1309.0
47.5°	2080.8	2079.2	2032.6	1800.4	1471.8	1308.3	1310.3	1359.7	1490.3	1554.8	1607.0
50°	2300.9	2308.4	2271.6	2119.1	1811.2	1565.7	1560.8	1593.7	1803.6	1909.2	1974.0
52.5°	2606.9	2617.5	2514.3	2416.3	2167.4	1885.1	1881.2	1915.6	2180.0	2259.3	2270.8
55°	2877.2	2859.2	2777.7	2749.4	2601.8	2279.6	2278.6	2308.8	2544.1	2577.9	2599.2
57.5°	2996.5	2989.6	3028.9	3093.8	3056.7	2745.8	2743.5	2720.3	2870.0	2873.6	2939.2
60°	3071.9	3080.3	3201.0	3400.8	3493.1	3247.6	3232.7	3091.4	3181.2	3173.2	3243.5
62.5°	3015.3	3032.0	3249.1	3582.1	3819.7	3685.5	3664.4	3431.4	3447.1	3419.6	3484.9
65°	2714.9	2740.9	3096.6	3547.9	3981.7	4027.8	4006.5	3731.5	3658.3	3613.0	3576.7
67.5°	2204.4	2219.9	2591.3	3250.4	3908.7	4232.0	4227.6	3994.7	3817.7	3580.3	3299.0
69°	1821.8	1836.9	2194.4	2937.2	3748.0	4275.7	4284.2	4079.0	3787.3	3381.8	2923.0
70°	1543.0	1559.2	1892.3	2668.6	3561.6	4255.4	4270.6	4071.0	3700.4	3151.9	2593.1
72.5°	809.3	823.2	1165.0	1838.5	2903.4	3907.5	3953.5	3726.9	3136.7	2289.1	1533.2
75°	254.3	262.3	455.0	961.1	1987.9	3038.2	3048.8	2923.5	2227.3	1259.1	638.6
77.5°	97.0	94.6	151.5	354.1	1005.0	1913.1	1977.7	1827.0	1168.8	445.2	147.4
80°	52.2	52.4	78.7	146.6	430.0	983.2	1037.7	885.4	415.3	138.9	33.9
82.5°	22.6	23.7	44.2	77.7	197.5	362.7	389.9	324.6	158.6	93.3	12.6
85°	4.8	5.4	21.3	42.2	80.5	101.8	106.8	105.2	101.1	72.6	4.8
87.5°	0.0	0.0	9.5	15.2	20.3	23.1	20.3	26.5	55.8	48.9	2.6
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°	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6	549.6
2.5°	550.1	545.4	537.5	528.7	522.6	516.2	511.0	508.7	506.1	504.3	506.7
5°	549.1	540.0	524.6	509.7	498.9	490.2	483.0	480.1	477.3	475.3	475.0
7.5°	558.1	545.4	521.8	500.0	483.2	471.4	461.6	457.5	454.1	452.6	451.3
10°	575.3	559.1	527.4	498.9	477.3	457.2	436.2	419.9	409.4	404.6	402.7
12.5°	597.7	577.4	538.2	504.3	472.9	434.4	389.6	351.0	326.1	317.8	313.0
15°	623.9	598.7	552.4	511.2	457.0	386.5	310.7	260.3	237.1	232.5	227.3
17.5°	649.1	621.3	569.4	512.5	422.0	308.9	227.6	193.4	184.4	187.5	188.3
20°	671.2	643.7	586.1	501.3	358.5	231.7	176.2	167.7	171.0	176.9	177.9
22.5°	693.6	665.3	601.5	471.4	277.2	175.9	158.6	160.7	164.0	170.0	171.0
25°	720.8	691.5	615.9	416.6	208.0	149.7	150.7	153.8	157.2	162.6	163.0
27.5°	752.2	724.7	625.4	345.4	154.3	137.6	140.9	145.6	148.9	154.1	155.1
30°	793.9	768.4	628.5	271.5	129.4	126.8	128.4	134.0	138.9	143.5	144.3
32.5°	833.0	811.7	618.3	204.9	119.8	116.7	116.7	120.1	125.8	130.1	131.2
35°	868.9	855.1	585.3	149.9	112.6	107.5	104.9	104.9	108.5	112.2	113.2
37.5°	916.5	916.1	532.1	119.6	105.7	99.8	94.4	90.3	89.0	89.7	90.3
40°	998.1	998.8	462.6	107.2	99.8	91.9	83.6	76.1	69.2	66.9	66.6
42.5°	1125.4	1113.8	389.9	101.4	94.6	83.6	71.3	61.2	50.4	47.0	46.8
45°	1327.5	1258.8	312.7	95.9	89.2	74.3	58.9	45.3	36.5	33.9	33.9
47.5°	1622.0	1449.4	242.3	90.0	82.1	63.8	44.5	32.7	26.7	25.4	25.7
50°	1926.4	1636.1	185.7	82.5	73.3	52.7	32.9	23.7	20.3	20.3	20.6
52.5°	2196.5	1772.9	144.8	74.6	62.5	41.4	25.0	18.5	17.0	16.7	17.0
55°	2449.3	1861.1	110.9	65.3	49.7	30.8	19.0	15.2	14.2	13.6	13.4
57.5°	2693.1	1904.8	83.1	52.7	36.0	22.4	15.2	12.9	11.8	11.1	10.8
60°	2855.4	1869.3	57.1	38.8	25.0	16.2	12.6	11.1	9.8	9.0	8.8
62.5°	2947.0	1772.5	36.8	28.0	17.7	12.1	10.1	9.2	7.5	6.7	6.7
65°	2909.9	1612.4	25.7	20.0	12.9	9.0	7.5	7.5	5.4	4.4	4.1
67.5°	2578.6	1362.2	19.6	14.9	9.2	6.7	5.7	6.4	3.4	2.0	2.0
69°	2218.6	1128.9	16.7	12.4	7.7	5.4	4.8	5.9	2.3	1.6	1.3
70°	1928.3	973.9	15.2	10.8	6.4	4.7	4.4	5.7	2.3	1.3	1.0
72.5°	1153.6	543.2	11.6	7.7	4.1	3.6	3.6	6.4	2.3	1.3	1.0
75°	466.2	191.3	8.5	5.4	3.1	3.1	4.4	8.2	2.0	1.0	0.7
77.5°	105.7	41.9	4.8	3.4	2.0	3.1	5.1	6.4	1.3	0.6	0.0
80°	25.7	10.2	3.1	2.0	1.3	2.3	3.8	3.6	0.3	0.0	0.0
82.5°	8.5	3.6	1.3	1.0	0.3	0.7	1.8	1.0	0.0	0.0	0.0
85°	3.6	2.0	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.3	0.7	0.0	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)