

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: P526578

Luminaire Tested: **GALN-SA1C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5824 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

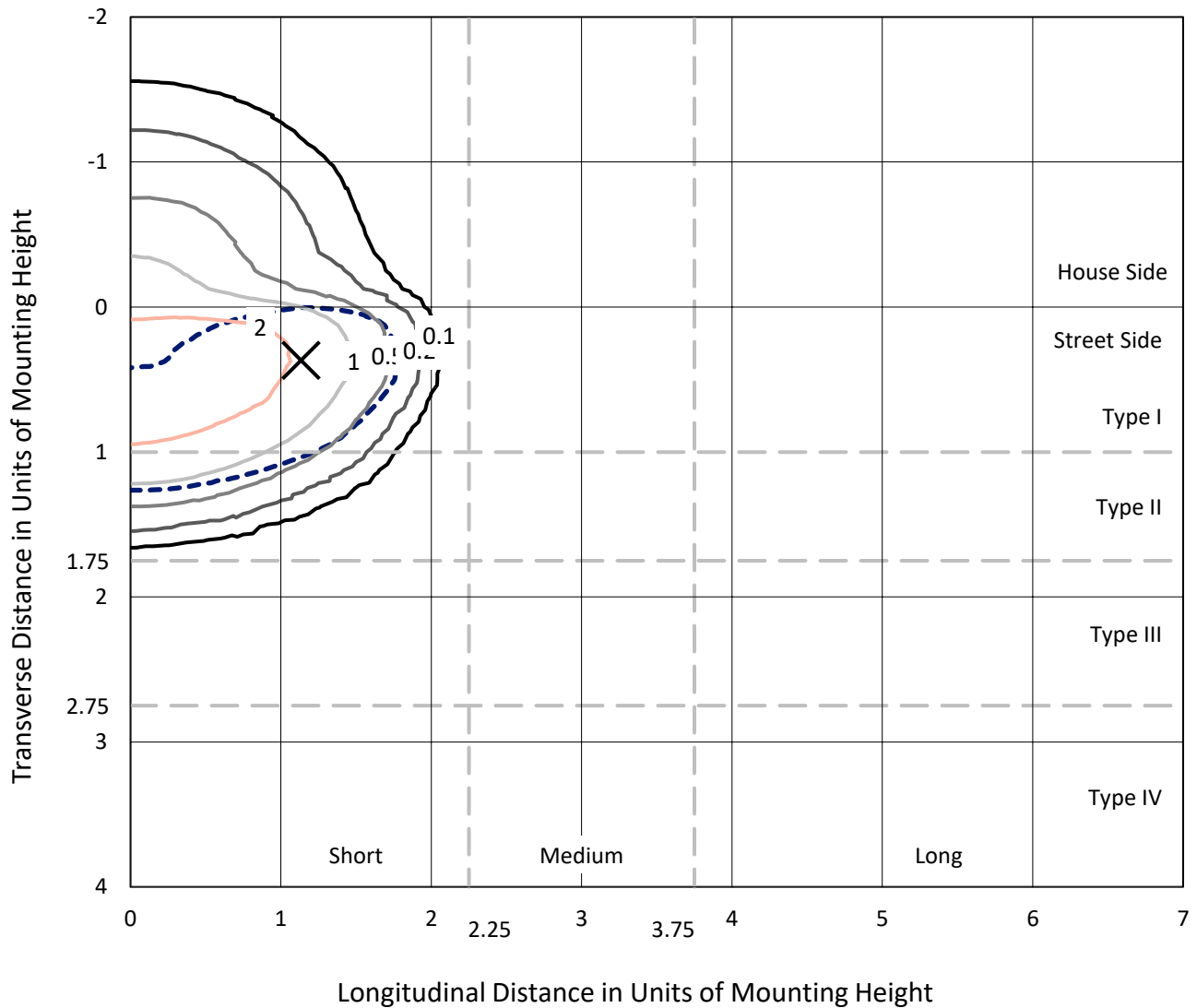
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

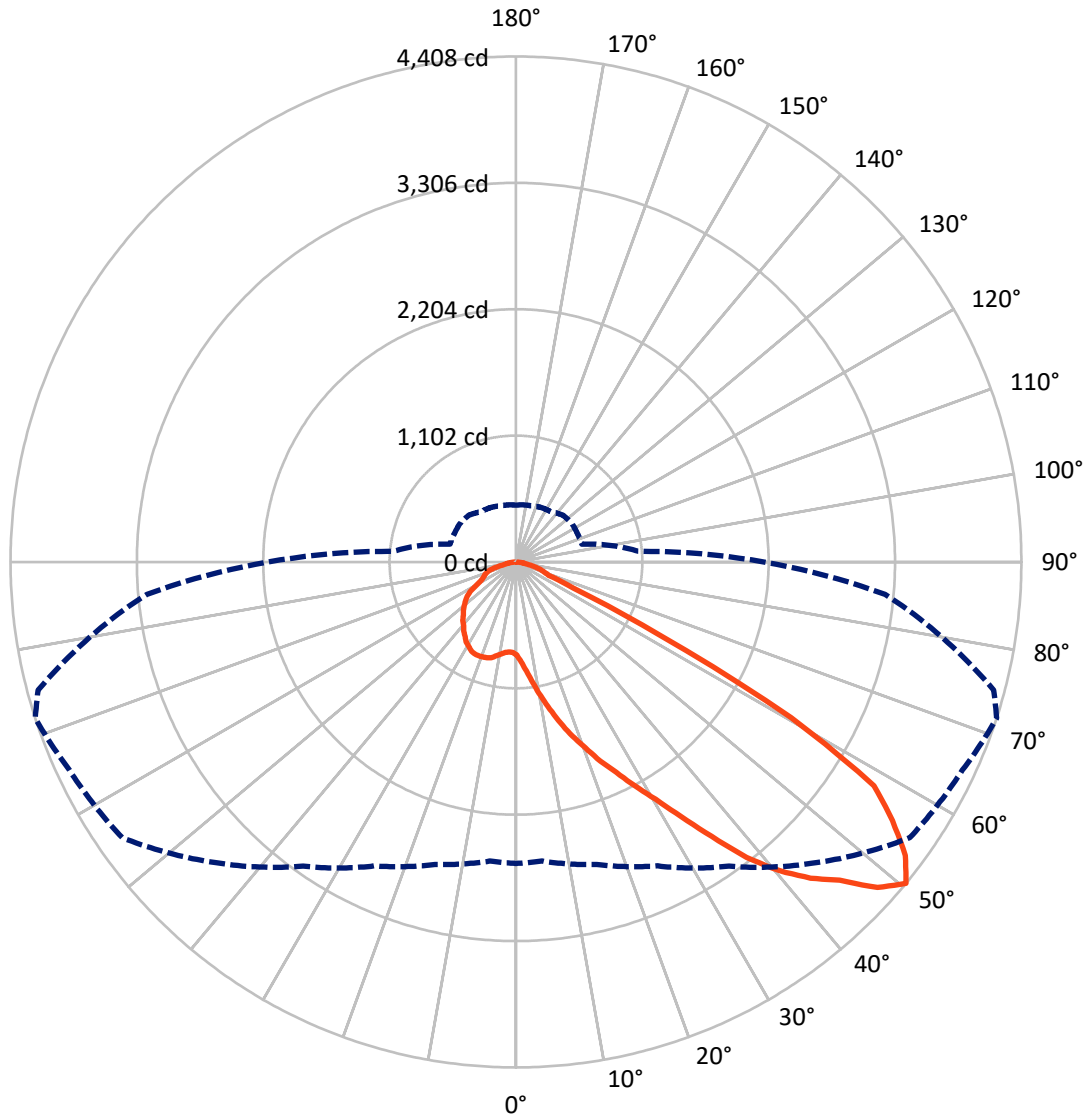
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1334.3	0.0	1334.3
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4489.7	0.0	4489.7
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5824.0	0.0	5824.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.4	1.6
10°-20°	356.5	6.1
20°-30°	691.2	11.9
30°-40°	1145.1	19.7
40°-50°	1602.3	27.5
50°-60°	1351.7	23.2
60°-70°	412.0	7.1
70°-80°	144.5	2.5
80°-90°	25.1	0.4
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°	5824.0	100.0
0°-180°	5824.0	100.0

**Coefficient of Utilization**



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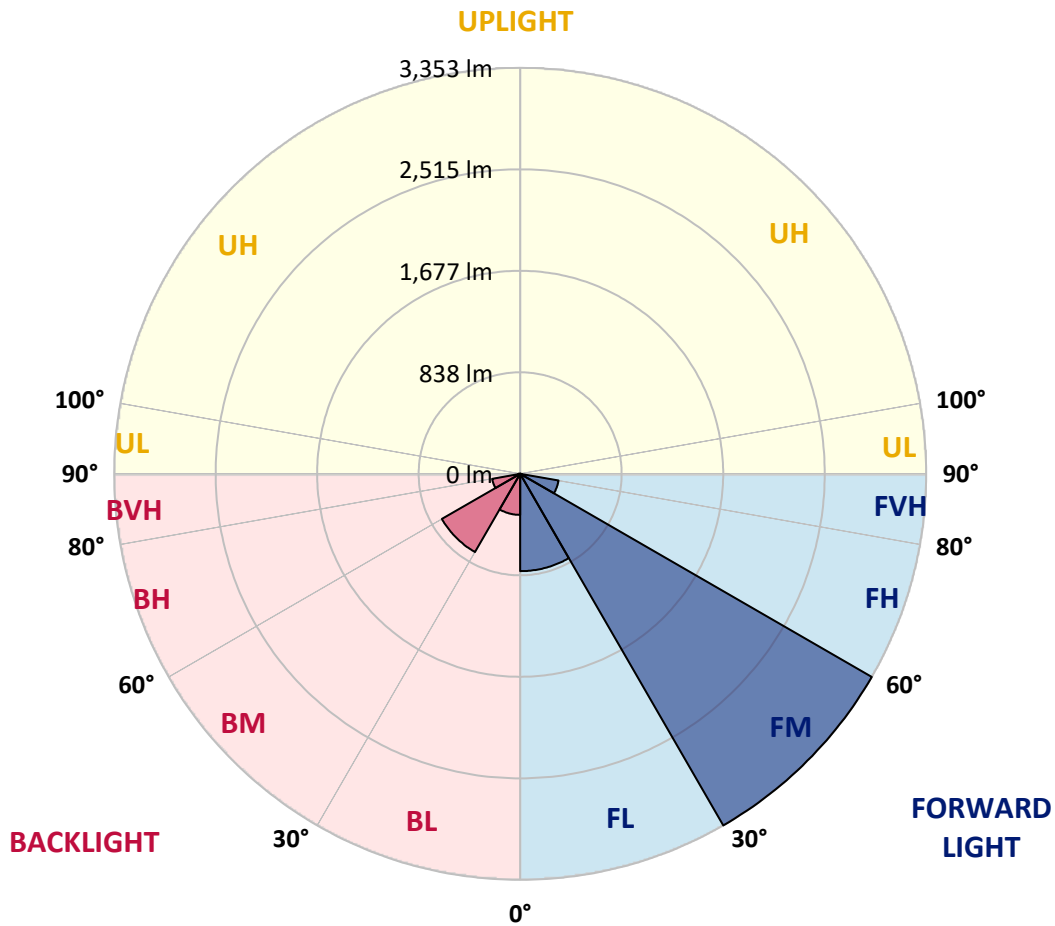
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.9	13.8			
FM (30°-60°)	3353.0	57.6			
FH (60°-80°)	321.5	5.5			G0/660
FVH (80°-90°)	11.3	0.2			G1/100
BL (0°-30°)	339.2	5.8	B1/500		
BM (30°-60°)	746.2	12.8	B1/1000		
BH (60°-80°)	235.1	4.0	B1/500		G1/500
BVH (80°-90°)	13.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8
2.5°	1042.8	1036.3	1016.9	1010.4	987.3	945.5	931.1	888.6	870.6	854.0	834.5
5°	1318.8	1288.6	1286.4	1249.6	1196.3	1165.3	1073.1	1011.1	954.2	925.3	872.0
7.5°	1494.7	1495.4	1495.4	1465.1	1422.6	1344.0	1261.2	1149.5	1063.7	1021.2	930.4
10°	1661.9	1647.4	1639.5	1636.6	1607.8	1531.4	1442.8	1304.4	1186.9	1137.2	974.3
12.5°	1780.0	1767.8	1785.8	1776.4	1755.5	1705.8	1622.2	1464.4	1317.4	1250.4	1045.0
15°	1836.3	1844.9	1859.3	1885.3	1875.9	1857.2	1764.9	1628.7	1457.9	1382.2	1107.7
17.5°	1922.7	1899.0	1916.3	1948.7	1974.6	1966.0	1913.4	1747.6	1597.0	1504.0	1192.0
20°	1983.3	1969.6	1978.2	2015.7	2035.2	2084.2	2056.8	1903.3	1730.3	1632.3	1291.4
22.5°	2156.2	2136.1	2108.0	2113.7	2120.9	2155.5	2162.0	2074.1	1885.3	1781.5	1385.8
25°	2369.6	2350.8	2317.7	2283.8	2262.9	2256.4	2278.7	2208.1	2033.7	1926.3	1487.5
27.5°	2604.5	2572.8	2551.9	2482.0	2425.8	2417.1	2406.3	2368.1	2209.6	2093.5	1602.0
30°	2832.9	2807.7	2779.6	2667.9	2609.5	2600.2	2546.8	2557.6	2400.5	2271.5	1731.8
32.5°	3005.9	3008.1	2943.9	2859.6	2804.8	2755.1	2735.7	2766.6	2645.6	2541.8	1876.6
35°	3145.7	3152.2	3090.9	3014.6	2955.5	2990.0	2981.4	2995.8	2938.2	2811.3	2045.3
37.5°	3281.9	3249.5	3183.9	3147.2	3116.2	3173.1	3246.6	3258.9	3269.7	3120.5	2241.3
40°	3304.3	3307.1	3268.9	3294.9	3256.0	3341.7	3512.5	3496.7	3540.6	3410.2	2453.9
42.5°	3272.5	3279.0	3294.2	3330.9	3424.6	3527.7	3781.3	3716.5	3769.8	3653.8	2660.7
45°	3220.7	3194.0	3212.7	3352.5	3514.7	3743.9	4027.1	3976.6	3959.3	3862.1	2907.2
47.5°	2972.8	3000.1	3058.5	3230.8	3474.3	3781.3	4201.5	4190.0	4241.8	4173.4	3131.3
50°	2629.0	2618.2	2730.6	2924.5	3238.7	3707.8	4192.1	4296.6	4408.3	4313.2	3231.5
52.5°	1968.9	2026.5	2123.1	2363.8	2812.0	3307.1	3987.5	4161.9	4252.7	4232.5	3150.8
55°	1244.6	1261.9	1320.3	1606.4	2009.9	2654.2	3418.1	3822.4	3984.6	4060.2	3076.5
57.5°	604.6	572.2	643.6	873.4	1161.0	1785.1	2636.2	3329.5	3681.9	3818.8	2915.1
60°	315.7	327.9	356.0	438.2	600.3	926.8	1643.1	2218.9	2757.3	2967.7	2209.6
62.5°	261.6	265.9	284.7	325.7	399.2	533.3	838.9	1081.7	1406.0	1595.6	1256.8
65°	222.0	224.1	244.3	271.7	318.5	375.5	431.7	451.9	547.0	561.4	446.8
67.5°	185.2	187.4	209.0	234.9	265.2	280.3	294.8	293.3	304.1	299.8	299.1
70°	142.7	144.9	167.2	194.6	209.7	201.1	245.7	255.8	260.2	263.8	269.5
72.5°	103.1	107.4	124.7	144.1	136.2	156.4	202.5	217.6	223.4	225.6	232.8
75°	74.9	76.4	80.7	74.9	86.5	108.8	142.7	161.4	168.6	170.8	181.6
77.5°	33.2	33.9	34.6	43.2	55.5	67.7	85.0	100.2	110.3	113.1	116.0
80°	17.3	18.0	22.3	29.5	39.6	49.7	62.0	70.6	77.1	77.8	80.7
82.5°	10.8	11.5	15.9	20.9	28.1	36.8	45.4	52.6	57.7	58.4	59.1
85°	5.0	6.5	9.4	13.0	18.7	23.8	24.5	20.9	22.3	23.1	21.6
87.5°	1.4	2.2	2.9	2.2	2.9	2.9	3.6	4.3	4.3	4.3	5.0
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°	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8	810.8
2.5°	823.7	817.2	792.0	782.6	758.1	762.5	749.5	748.8	745.9	745.2	744.4
5°	843.9	823.7	793.5	770.4	756.7	755.3	745.9	745.9	748.8	750.9	745.9
7.5°	877.1	854.0	802.8	781.2	769.0	766.8	760.3	755.3	761.7	759.6	753.8
10°	915.2	874.9	820.8	802.1	781.9	776.9	776.9	779.0	768.2	771.8	766.1
12.5°	957.8	903.7	843.9	822.3	798.5	795.6	794.2	778.3	784.1	781.2	766.8
15°	1011.8	936.9	873.4	836.7	816.5	803.5	784.8	781.9	778.3	771.1	764.6
17.5°	1070.2	972.9	887.1	841.0	810.8	801.4	787.0	771.8	761.0	762.5	757.4
20°	1119.9	1006.1	892.2	845.3	806.4	788.4	766.1	756.7	745.2	744.4	743.7
22.5°	1179.0	1050.7	899.4	833.8	793.5	774.7	759.6	743.0	735.1	725.0	730.0
25°	1249.6	1068.0	900.8	827.3	784.1	750.9	743.0	725.0	722.1	707.7	710.6
27.5°	1300.8	1077.4	889.3	807.1	762.5	737.2	722.8	709.9	704.8	694.0	691.1
30°	1369.3	1091.8	864.8	781.9	740.8	712.7	704.1	701.2	686.8	675.3	673.8
32.5°	1447.1	1101.2	848.9	756.0	718.5	696.9	701.2	687.5	669.5	659.4	656.5
35°	1509.1	1104.8	809.3	726.4	703.4	689.7	684.6	681.8	655.8	646.4	639.2
37.5°	1603.5	1096.9	776.2	705.5	686.8	681.8	677.4	658.0	628.4	614.7	604.6
40°	1713.7	1094.7	733.6	676.0	670.9	676.7	663.7	633.5	592.4	577.3	570.0
42.5°	1819.7	1109.8	707.0	660.1	653.6	655.8	637.8	592.4	572.2	563.6	552.0
45°	1997.0	1141.5	663.0	635.6	632.7	631.3	609.7	562.1	550.6	539.8	537.6
47.5°	2157.0	1120.6	634.9	610.4	613.3	605.4	559.2	544.1	531.1	520.3	516.7
50°	2166.3	1070.9	595.3	590.9	591.7	578.0	534.0	523.9	507.3	500.1	495.1
52.5°	2117.3	989.5	558.5	560.0	562.1	539.8	503.0	495.8	482.1	472.0	469.2
55°	1979.7	862.6	522.5	528.2	534.0	491.5	480.0	461.9	451.1	436.7	437.4
57.5°	1744.0	694.7	472.0	481.4	493.7	446.8	438.2	415.8	400.0	388.4	387.0
60°	1168.9	494.4	396.4	400.0	427.4	408.6	407.9	385.6	363.9	353.8	348.1
62.5°	689.7	377.6	342.3	338.7	338.0	348.8	366.8	358.9	330.8	311.3	317.1
65°	361.1	326.5	318.5	306.3	299.1	296.2	309.9	313.5	294.8	273.9	272.4
67.5°	303.4	303.4	296.9	292.6	282.5	270.3	261.6	250.1	247.2	241.4	234.2
70°	276.0	283.2	281.1	271.0	262.3	248.6	226.3	207.6	189.5	183.0	187.4
72.5°	240.7	247.9	247.9	242.9	231.3	210.4	188.8	167.2	152.1	140.5	139.1
75°	185.2	188.8	197.5	191.7	176.6	163.6	141.3	118.9	104.5	93.7	91.5
77.5°	118.2	124.0	124.0	123.2	112.4	100.2	85.8	69.9	59.1	51.2	49.0
80°	78.6	82.2	85.0	82.2	74.9	65.6	54.8	44.0	36.0	29.5	28.1
82.5°	57.7	62.0	64.1	61.3	54.1	46.8	38.9	31.0	23.1	18.0	16.6
85°	22.3	23.1	25.9	31.0	30.3	29.5	23.8	17.3	13.0	9.4	8.6
87.5°	5.8	5.0	5.8	5.8	5.0	4.3	4.3	4.3	4.3	2.2	2.9
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)