

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: P526798

Luminaire Tested: **GALN-SA1D-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526798  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-735-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6580 lumens  
Efficiency: N/A  
Efficacy: 101.2 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

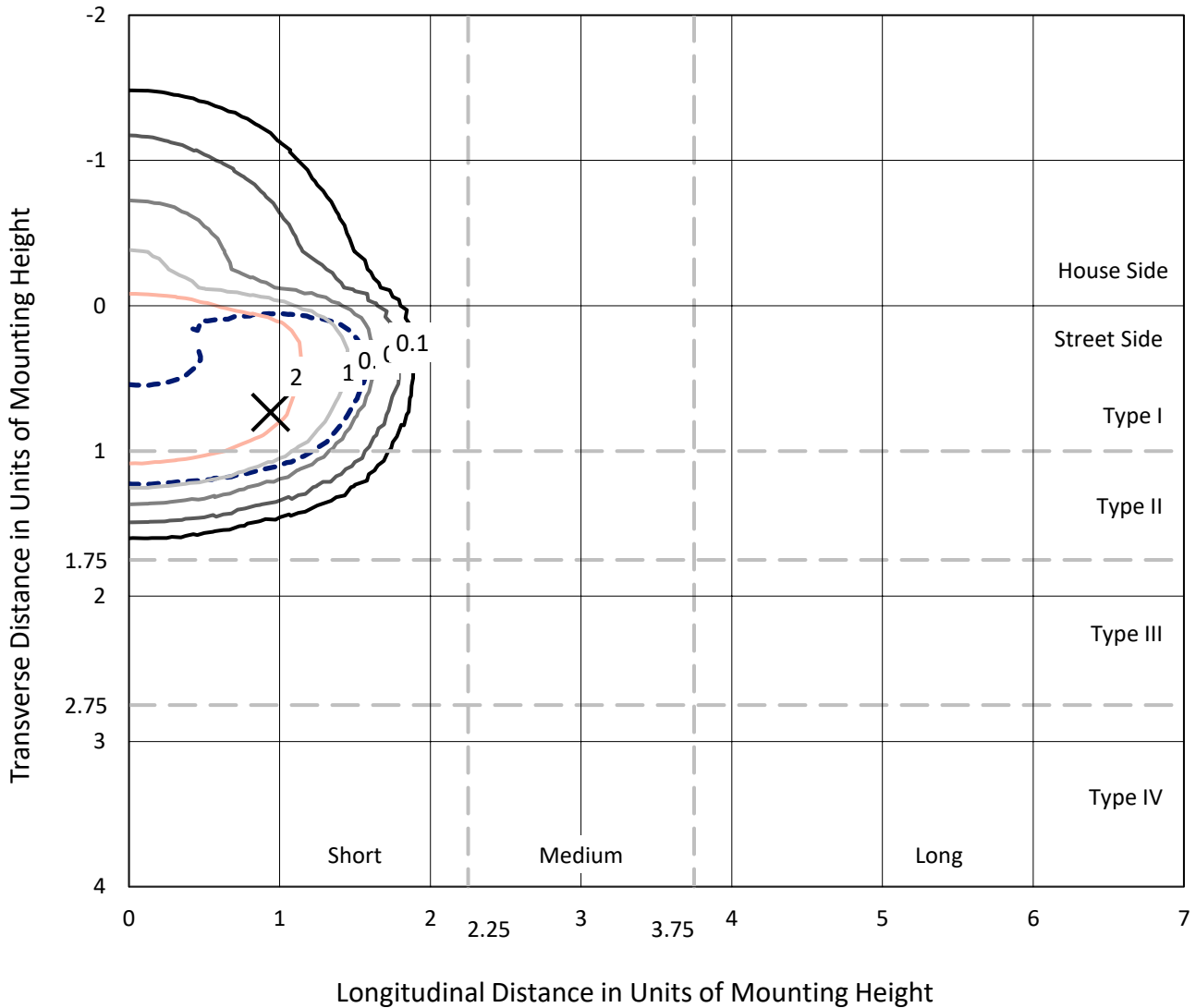
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

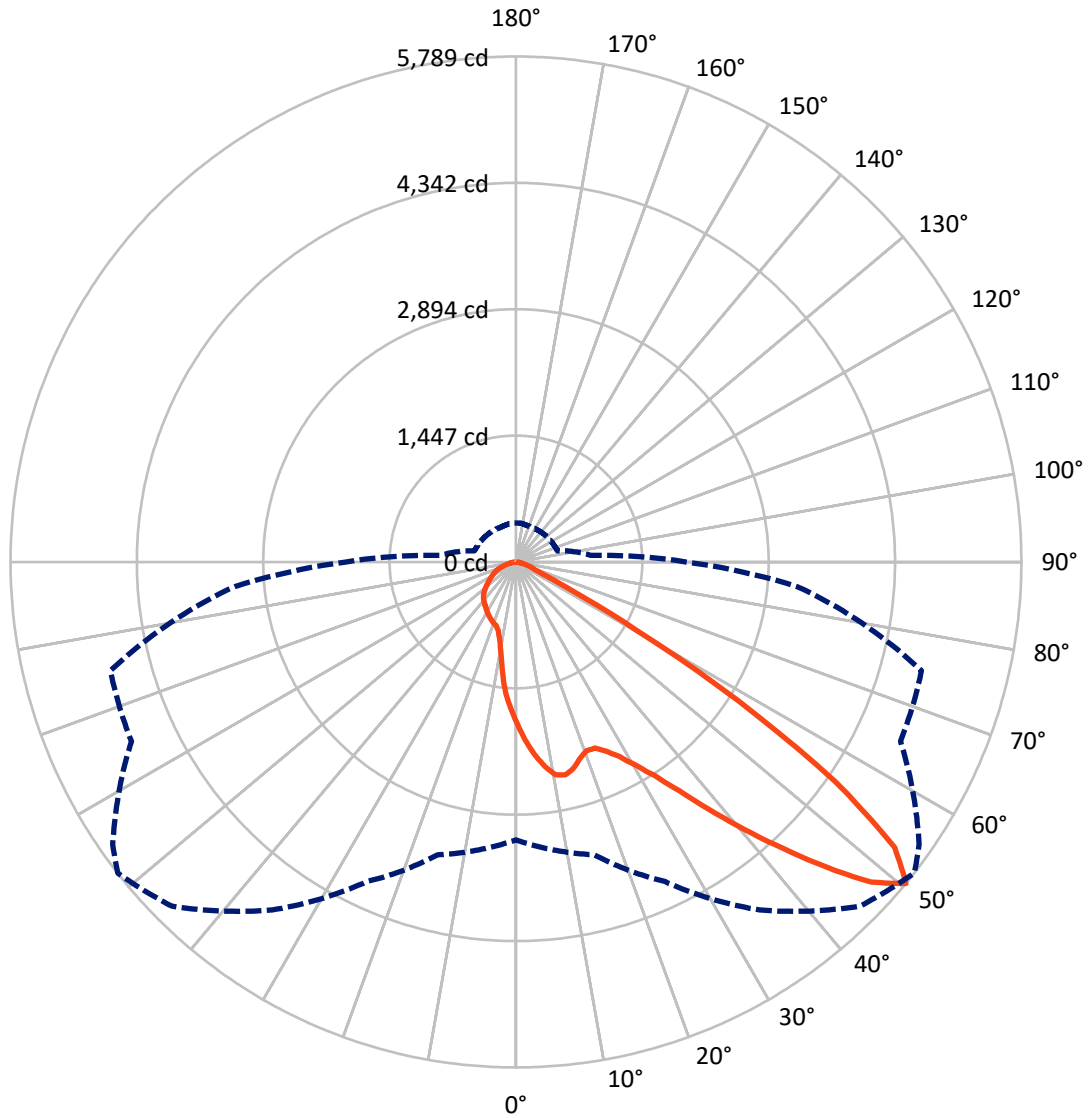
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1236.9	0.0	1236.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	5343.1	0.0	5343.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6580.0	0.0	6580.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.0	2.6
10°-20°	458.2	7.0
20°-30°	771.8	11.7
30°-40°	1295.2	19.7
40°-50°	1981.3	30.1
50°-60°	1444.5	22.0
60°-70°	321.5	4.9
70°-80°	116.0	1.8
80°-90°	20.5	0.3
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°	6580.0	100.0
0°-180°	6580.0	100.0

**Coefficient of Utilization**



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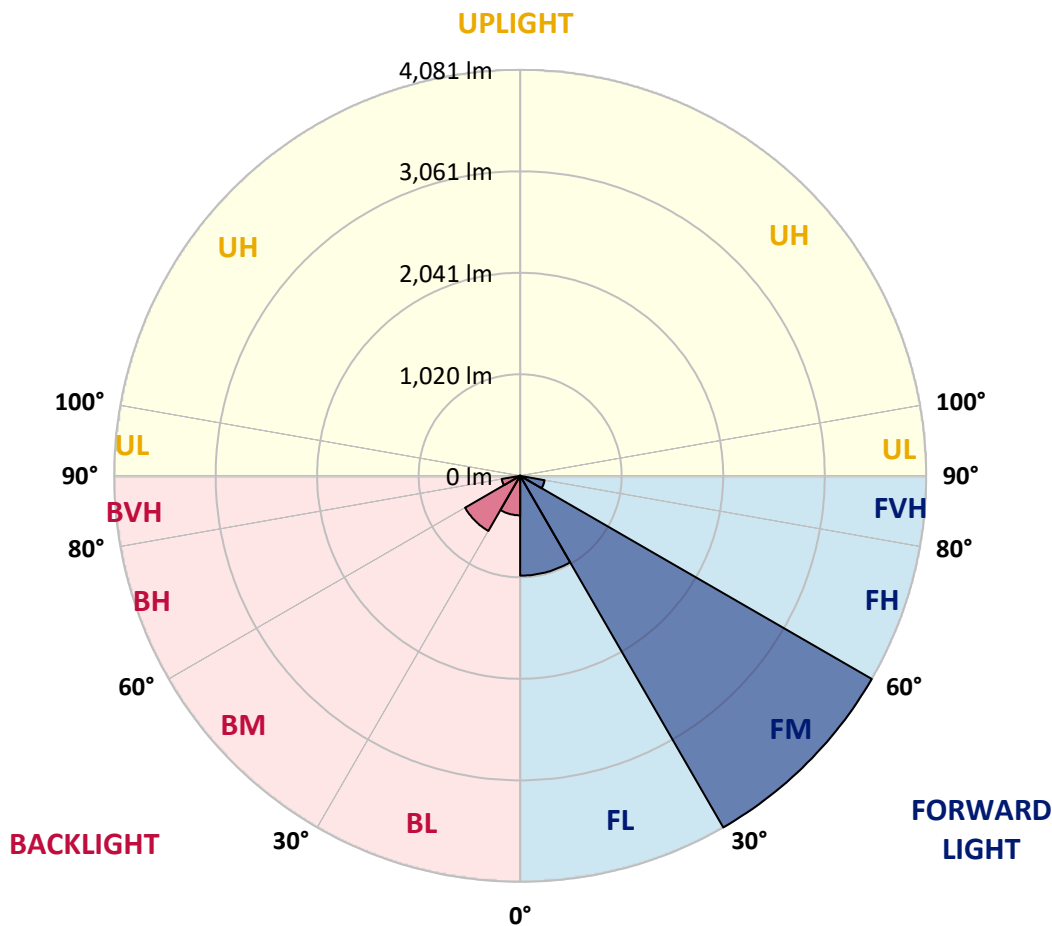
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.7	15.3			
FM (30°-60°)	4081.3	62.0			
FH (60°-80°)	249.0	3.8			G0/660
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	397.3	6.0	B1/500		
BM (30°-60°)	639.8	9.7	B1/1000		
BH (60°-80°)	188.5	2.9	B1/500		G1/500
BVH (80°-90°)	11.3	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°	52°	55°	65°	75°	85°
0°	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8
2.5°	2183.9	2141.9	2146.6	2116.5	2084.0	2074.4	2041.1	2009.4	1985.6	1934.9	1888.1
5°	2386.9	2374.2	2355.2	2331.4	2306.8	2246.5	2212.4	2172.8	2085.6	2007.0	1929.3
7.5°	2416.2	2413.8	2424.2	2424.2	2432.9	2409.9	2361.5	2333.8	2241.0	2113.3	1969.0
10°	2210.1	2217.2	2267.1	2332.2	2422.6	2485.2	2477.3	2470.1	2368.6	2194.2	2015.8
12.5°	2045.9	2030.0	2059.4	2114.9	2250.5	2402.0	2504.2	2505.0	2478.9	2323.4	2049.9
15°	1953.1	1964.2	1972.2	1998.3	2100.6	2275.9	2455.9	2509.0	2624.0	2414.6	2103.8
17.5°	2012.6	1975.3	1973.7	1980.1	2032.4	2164.1	2366.3	2457.5	2703.3	2532.0	2170.4
20°	2090.3	2089.5	2067.3	2059.4	2058.6	2176.0	2307.6	2431.3	2745.3	2684.3	2237.8
22.5°	2226.7	2226.7	2190.2	2172.8	2135.5	2231.5	2315.5	2399.6	2815.1	2788.9	2270.3
25°	2455.1	2417.8	2355.2	2312.3	2290.9	2325.0	2399.6	2474.9	2876.2	2899.9	2337.7
27.5°	2666.0	2607.3	2576.4	2502.7	2474.1	2454.3	2522.5	2598.6	2947.5	3072.8	2374.2
30°	2905.5	2895.2	2839.7	2744.5	2673.9	2637.5	2700.1	2775.4	3078.4	3249.7	2458.3
32.5°	3333.7	3240.1	3164.8	3048.2	2933.3	2855.5	2917.4	2967.4	3295.6	3434.4	2550.2
35°	3796.0	3765.9	3635.8	3425.7	3249.7	3179.9	3216.3	3253.6	3548.6	3716.7	2704.9
37.5°	4250.4	4209.2	4102.1	3925.3	3711.2	3569.2	3595.4	3639.0	3832.5	4097.4	2893.6
40°	4577.1	4526.4	4472.4	4446.3	4233.7	4039.5	4024.4	4035.5	4216.3	4454.2	3103.0
42.5°	4600.9	4663.5	4680.2	4785.7	4735.7	4576.3	4483.5	4485.9	4582.7	4807.1	3314.7
45°	4550.9	4493.1	4616.0	4903.8	5068.8	5143.3	4987.1	4967.3	4809.5	5011.7	3420.1
47.5°	4026.8	4042.6	4250.4	4705.6	5182.2	5515.2	5478.7	5412.9	4930.8	5004.5	3403.5
50°	3183.0	3279.0	3471.7	4038.7	4865.0	5573.9	5788.8	5636.5	4858.6	4807.9	3233.8
52.5°	2119.7	2159.3	2286.2	3018.1	3911.8	4982.3	5432.0	5466.8	4792.0	4550.2	3018.9
55°	943.7	940.5	1118.9	1576.5	2454.3	3791.3	4438.3	4650.9	4535.9	4287.7	2809.5
57.5°	399.7	413.1	486.1	681.2	1206.9	2287.8	3007.0	3193.4	3488.3	3520.9	2155.3
60°	270.4	272.0	291.8	341.0	505.1	1074.5	1577.2	1800.9	2011.8	1997.5	1143.5
62.5°	212.5	218.1	233.1	253.0	299.7	487.7	705.8	830.3	843.7	709.7	433.8
65°	181.6	182.4	197.5	214.1	234.7	283.9	340.2	346.5	350.5	337.8	318.8
67.5°	149.9	151.5	163.4	182.4	201.4	217.3	233.1	241.1	259.3	295.0	290.2
70°	118.9	121.3	131.6	147.5	164.9	174.5	194.3	201.4	218.1	245.8	256.9
72.5°	90.4	91.2	99.9	111.0	126.9	136.4	153.0	161.0	172.1	195.9	206.2
75°	65.0	67.4	73.7	79.3	81.7	88.0	103.9	112.6	128.5	138.8	139.6
77.5°	34.1	35.7	37.3	37.3	45.2	57.1	67.4	72.2	83.3	91.2	87.2
80°	13.5	14.3	18.2	24.6	31.7	41.2	48.4	50.8	60.3	65.0	67.4
82.5°	7.9	8.7	11.9	17.4	23.0	29.3	34.9	37.3	43.6	49.2	50.8
85°	4.0	4.8	7.1	11.1	15.1	18.2	17.4	16.7	16.7	15.9	16.7
87.5°	1.6	1.6	2.4	2.4	2.4	3.2	4.0	4.0	4.0	4.8	4.8
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°	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8	1854.8
2.5°	1857.2	1825.5	1796.1	1742.2	1683.5	1666.9	1598.7	1574.1	1556.6	1536.0	1529.7
5°	1866.7	1824.7	1730.3	1621.7	1535.2	1424.2	1351.2	1272.7	1215.6	1201.4	1197.4
7.5°	1886.5	1814.4	1651.8	1487.6	1310.8	1160.1	1045.2	983.3	928.6	925.4	919.9
10°	1908.7	1783.4	1566.1	1308.4	1082.4	942.9	873.9	846.9	833.4	830.3	828.7
12.5°	1927.0	1777.1	1470.2	1134.0	920.7	836.6	816.0	813.6	819.2	820.7	823.9
15°	1934.9	1751.7	1354.4	977.8	819.9	789.0	797.7	807.3	811.2	821.5	813.6
17.5°	1950.0	1719.2	1211.7	854.0	763.6	769.2	784.3	795.4	801.7	808.8	798.5
20°	1957.9	1689.9	1077.7	780.3	743.8	754.1	774.7	783.5	791.4	794.6	782.7
22.5°	1950.7	1629.6	959.5	720.8	724.8	738.3	756.5	766.0	761.3	748.6	741.4
25°	1931.7	1544.7	836.6	682.8	697.8	721.6	735.9	728.8	720.0	712.9	710.5
27.5°	1930.9	1440.9	747.8	647.9	674.8	707.3	702.6	696.2	700.2	694.7	688.3
30°	1934.9	1340.1	674.8	628.0	658.2	674.0	679.6	673.2	678.0	667.7	670.9
32.5°	1914.3	1241.8	627.3	605.0	638.4	637.6	655.8	660.6	649.5	628.0	631.2
35°	1923.0	1162.5	586.8	594.7	616.1	616.1	630.4	624.9	595.5	582.8	586.0
37.5°	1983.3	1084.8	567.0	580.5	594.7	601.1	596.3	572.5	565.4	565.4	567.0
40°	2040.4	1018.2	555.1	577.3	574.9	578.9	544.0	546.4	546.4	547.2	543.2
42.5°	2091.1	973.0	545.6	558.3	562.2	541.6	520.2	517.8	523.4	522.6	519.4
45°	2109.3	935.7	532.1	536.9	540.0	505.9	495.6	490.9	497.2	499.6	502.8
47.5°	2039.6	904.8	517.0	507.5	501.2	479.0	465.5	456.8	464.7	478.2	481.3
50°	1950.0	864.4	493.2	475.0	461.5	452.0	442.5	433.8	439.3	448.8	446.5
52.5°	1817.5	800.9	463.1	444.1	421.1	423.5	414.7	410.0	413.1	413.1	410.8
55°	1628.8	658.2	412.4	398.9	379.8	386.2	387.8	381.4	375.1	380.6	375.9
57.5°	1111.8	464.7	367.9	367.9	348.9	357.6	356.8	341.8	326.7	328.3	325.1
60°	643.1	370.3	339.4	336.2	316.4	323.5	325.1	314.8	291.8	293.4	290.2
62.5°	365.6	316.4	296.6	291.8	287.9	294.2	294.2	280.7	260.9	262.5	259.3
65°	310.9	293.4	264.9	264.1	262.5	264.1	257.7	243.4	226.0	218.9	219.7
67.5°	282.3	271.2	243.4	236.3	231.6	230.8	218.9	205.4	197.5	191.1	190.3
70°	247.4	238.7	218.1	208.6	203.8	192.7	180.8	172.1	161.0	157.8	161.0
72.5°	195.9	195.1	187.1	176.8	166.5	157.8	147.5	135.6	125.3	122.9	117.4
75°	135.6	137.2	138.8	137.2	128.5	117.4	105.5	96.0	83.3	76.1	74.5
77.5°	88.8	91.2	93.6	90.4	84.8	74.5	66.6	54.7	45.2	39.6	38.9
80°	65.0	68.2	69.8	67.4	61.1	53.1	44.4	34.9	27.8	23.0	23.0
82.5°	50.0	53.1	54.7	50.8	44.4	38.1	31.7	24.6	19.0	15.1	14.3
85°	17.4	16.7	19.8	20.6	24.6	23.0	19.0	14.3	11.1	7.9	7.1
87.5°	4.8	4.8	5.6	5.6	4.8	4.0	4.0	4.0	3.2	2.4	2.4
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)