

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: P647789

Luminaire Tested: **GALN-SA2A-835-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-835-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7338.3 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

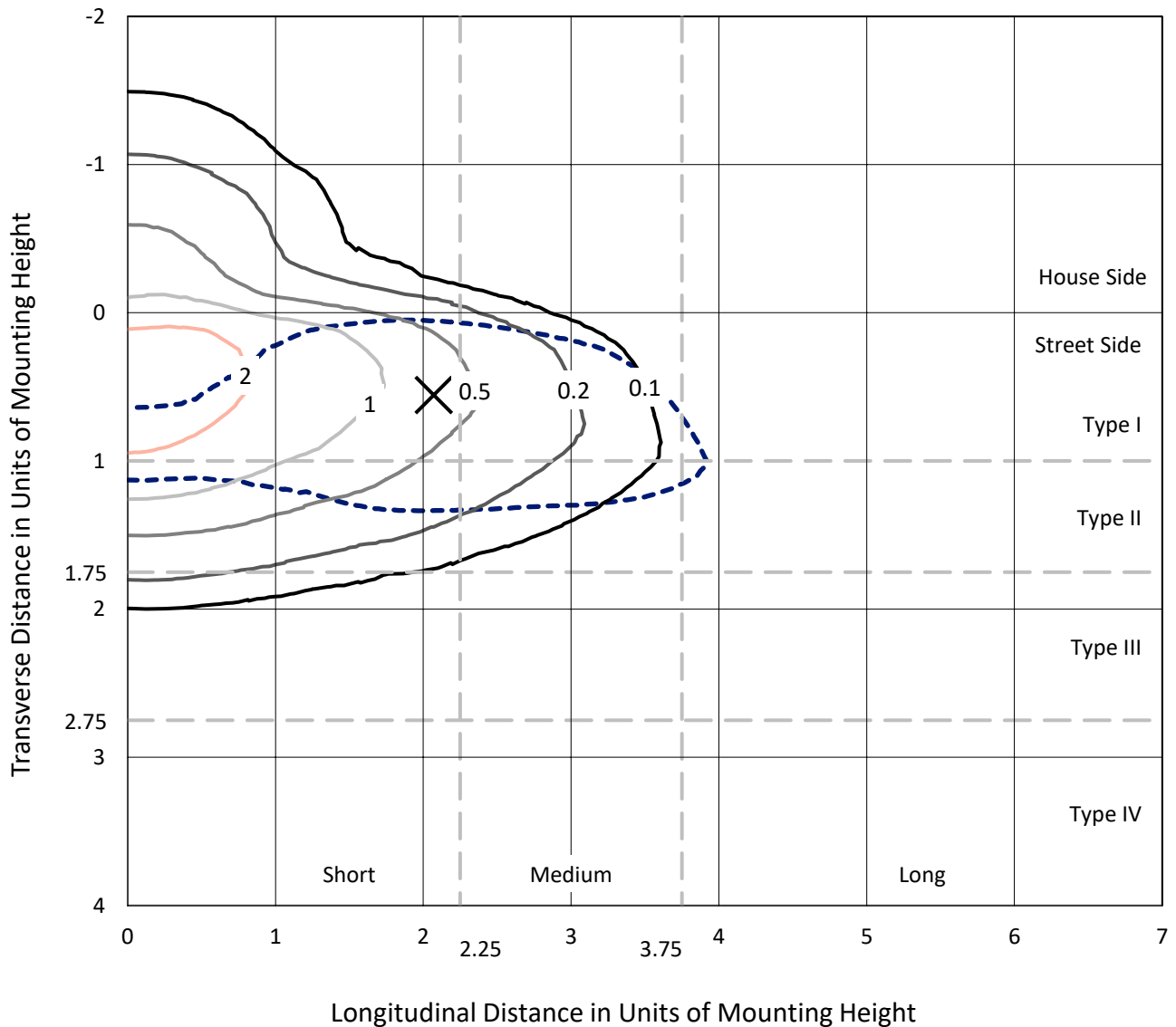
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647789  
 CATALOG NUMBER: GALN-SA2A-835-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

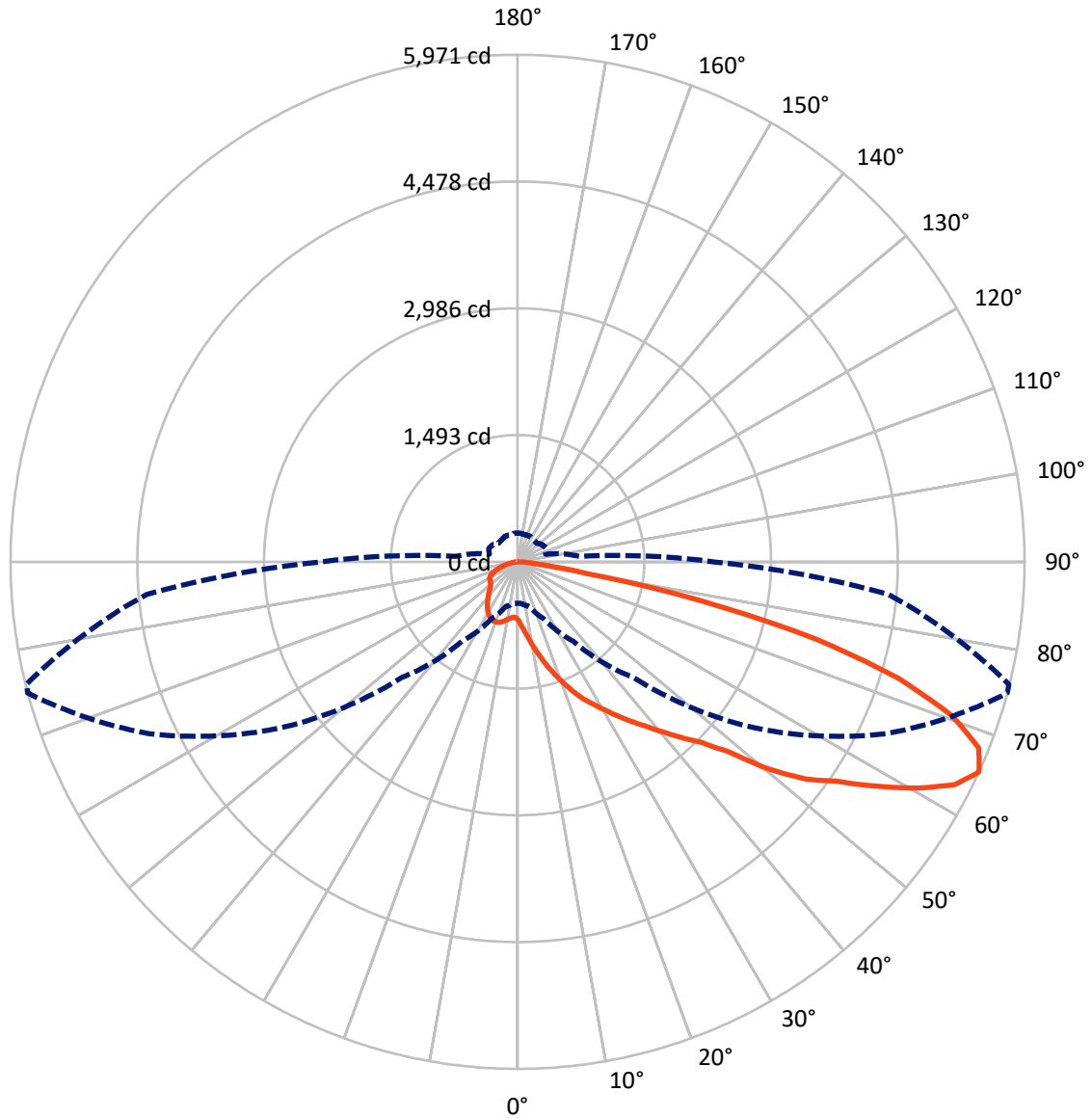
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P647789  
CATALOG NUMBER: GALN-SA2A-835-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P647789  
 CATALOG NUMBER: GALN-SA2A-835-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1233.7	0.0	1233.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	6104.6	0.0	6104.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	7338.3	0.0	7338.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.8	1.1
10°-20°	324.5	4.4
20°-30°	626.8	8.5
30°-40°	1018.1	13.9
40°-50°	1400.4	19.1
50°-60°	1653.4	22.5
60°-70°	1448.7	19.7
70°-80°	691.6	9.4
80°-90°	92.0	1.3
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°	7338.3	100.0
0°-180°	7338.3	100.0

**Coefficient of Utilization**

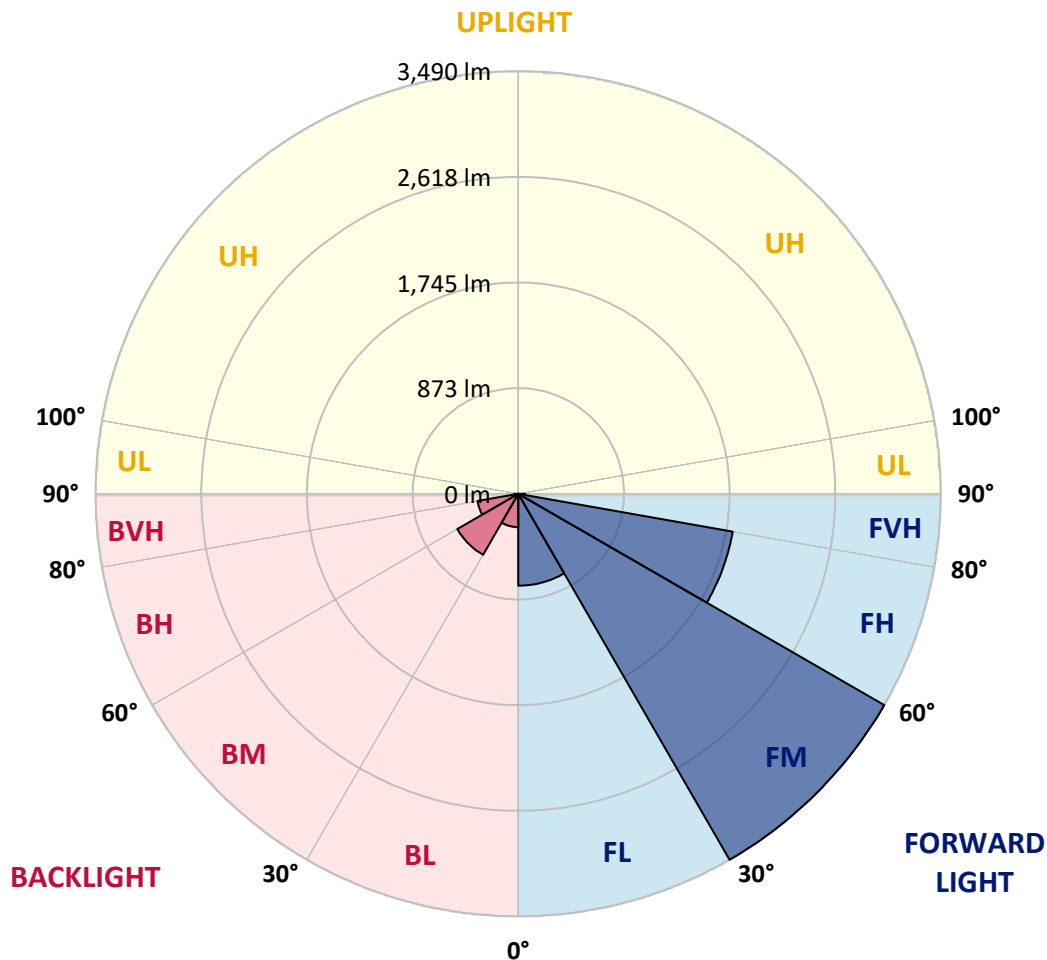


REPORT NUMBER: P647789  
 CATALOG NUMBER: GALN-SA2A-835-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.7	10.3			
FM (30°-60°)	3490.2	47.6			
FH (60°-80°)	1798.2	24.5			G1/1800
FVH (80°-90°)	57.5	0.8			G1/100
BL (0°-30°)	275.4	3.8	B1/500		
BM (30°-60°)	581.7	7.9	B1/1000		
BH (60°-80°)	342.1	4.7	B1/500		G1/500
BVH (80°-90°)	34.5	0.5			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





REPORT NUMBER: P647789

CATALOG NUMBER: GALN-SA2A-835-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	905.9	899.9	893.6	876.0	857.4	836.2	806.0	777.0	738.4	737.1	708.5
5°	1157.0	1153.0	1124.9	1108.5	1065.1	1007.4	958.5	882.4	812.0	803.6	747.9
7.5°	1387.9	1372.4	1361.6	1332.2	1289.2	1215.1	1120.5	1017.7	899.9	888.8	796.5
10°	1561.9	1560.3	1554.7	1529.2	1496.9	1423.3	1318.3	1171.0	1011.4	989.5	855.3
12.5°	1692.0	1693.2	1692.4	1692.0	1668.9	1606.4	1492.6	1337.4	1124.0	1108.5	923.4
15°	1777.6	1789.5	1794.3	1814.2	1816.2	1774.4	1676.5	1498.2	1251.0	1227.9	996.7
17.5°	1834.1	1840.0	1862.4	1896.2	1923.7	1916.1	1828.9	1647.0	1380.7	1342.1	1072.7
20°	1888.2	1898.6	1915.7	1961.9	2010.4	2032.7	1971.4	1799.5	1509.3	1484.6	1156.6
22.5°	2000.9	2015.6	2021.5	2045.0	2086.5	2125.8	2098.0	1945.5	1650.3	1616.8	1245.8
25°	2191.5	2207.0	2190.4	2184.7	2198.3	2217.8	2211.8	2083.2	1783.1	1735.4	1330.2
27.5°	2439.9	2441.9	2409.2	2378.2	2344.8	2334.8	2316.5	2205.5	1898.6	1858.8	1415.0
30°	2706.6	2697.0	2642.9	2586.8	2530.3	2474.5	2422.0	2323.2	2027.1	1981.4	1498.2
32.5°	2954.2	2949.0	2888.9	2801.7	2706.2	2653.7	2547.3	2442.3	2164.8	2120.7	1583.8
35°	3139.6	3147.2	3081.1	2986.0	2881.7	2835.2	2701.0	2567.3	2307.3	2259.2	1676.9
37.5°	3271.4	3267.4	3208.9	3126.5	3035.0	2994.3	2880.5	2703.8	2460.6	2414.5	1778.7
40°	3318.4	3315.9	3272.5	3212.5	3154.4	3140.1	3068.4	2851.1	2636.1	2582.0	1901.4
42.5°	3288.5	3293.7	3265.0	3248.7	3237.9	3248.3	3255.1	3044.1	2827.6	2777.8	2034.3
45°	3196.9	3194.2	3190.2	3216.9	3277.3	3345.4	3439.7	3226.4	3035.8	2995.9	2212.6
47.5°	3033.3	3053.2	3063.2	3136.9	3269.0	3430.2	3652.3	3470.8	3337.9	3303.2	2484.5
50°	2804.5	2820.4	2879.3	3010.2	3207.3	3462.0	3860.0	3870.4	3841.7	3776.9	2779.8
52.5°	2447.0	2471.8	2593.1	2833.1	3080.7	3448.9	3985.9	4213.1	4250.9	4202.4	3070.8
55°	2047.1	2081.7	2209.9	2524.7	2906.4	3377.2	4072.6	4411.7	4562.5	4517.6	3351.0
57.5°	1655.4	1692.0	1823.8	2128.7	2602.3	3218.8	4129.5	4633.0	4986.8	4928.4	3699.7
60°	1240.7	1278.9	1391.9	1705.9	2169.2	2909.2	4090.9	4824.8	5410.8	5385.7	4048.7
62.5°	800.5	842.6	940.9	1200.8	1667.3	2486.1	3884.3	4930.7	5777.8	5747.5	4303.4
65°	487.6	492.4	546.5	745.5	1141.1	1924.8	3411.8	4790.2	5971.2	5962.0	4381.0
67.5°	315.2	322.8	347.5	446.6	684.2	1337.0	2728.1	4326.5	5858.2	5855.0	4220.7
70°	266.3	268.6	279.8	301.3	397.6	810.8	1915.7	3587.4	5428.7	5428.7	3835.0
72.5°	238.0	241.2	245.2	252.0	283.8	459.3	1143.1	2792.6	4687.1	4718.2	3264.2
75°	216.1	215.3	217.8	218.9	242.0	300.1	591.1	2065.3	3626.0	3563.9	2363.9
77.5°	185.1	186.3	185.1	190.3	213.8	228.5	300.1	1385.9	2197.5	2117.1	1186.5
80°	152.1	154.0	156.1	159.2	182.7	173.5	180.3	631.6	812.8	795.7	366.6
82.5°	114.2	117.1	120.2	127.8	143.7	114.6	113.8	269.9	293.3	268.6	134.9
85°	46.2	54.5	82.4	90.0	90.4	62.9	70.1	112.7	119.8	117.1	52.9
87.5°	10.7	12.8	26.7	40.2	37.0	23.5	25.8	36.6	41.8	38.6	17.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P647789  
 CATALOG NUMBER: GALN-SA2A-835-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8	681.8
2.5°	695.4	681.4	657.6	639.2	626.1	614.6	607.4	603.0	601.4	601.0	601.4
5°	718.9	694.1	656.3	632.4	619.4	611.8	607.4	607.0	607.4	607.8	606.6
7.5°	751.1	715.7	666.3	644.0	634.1	628.5	626.5	625.7	626.1	625.7	625.7
10°	794.0	745.5	685.8	662.7	654.4	648.0	644.8	642.8	641.2	639.6	638.8
12.5°	841.4	778.5	706.9	684.6	672.7	662.7	655.5	650.4	646.8	643.2	642.5
15°	894.3	813.5	730.4	699.3	682.2	667.5	655.1	646.8	640.4	635.2	634.9
17.5°	944.9	846.6	746.3	706.1	681.1	660.3	644.0	632.4	624.5	617.7	616.9
20°	999.0	878.1	753.5	701.7	669.1	644.0	622.5	608.5	599.5	591.9	590.7
22.5°	1053.6	904.7	752.7	687.8	648.4	619.0	596.3	581.5	570.8	563.2	560.4
25°	1105.8	926.2	742.8	665.5	619.7	589.1	566.0	552.5	542.9	533.8	533.8
27.5°	1152.7	939.0	724.0	638.5	590.3	558.0	539.7	527.4	518.7	512.6	509.1
30°	1198.9	944.9	698.5	604.2	559.2	531.7	517.0	509.9	501.9	495.2	494.4
32.5°	1240.3	943.7	666.7	570.8	529.8	510.3	504.3	498.7	490.4	480.8	478.4
35°	1280.4	935.8	628.9	534.2	505.1	497.5	499.2	491.2	476.1	464.1	462.1
37.5°	1324.2	921.4	587.5	504.3	484.4	491.6	495.6	478.0	453.4	434.6	430.3
40°	1374.8	905.1	544.5	474.4	468.1	486.0	486.0	453.7	419.9	408.4	405.2
42.5°	1434.1	891.6	508.7	449.4	454.5	472.5	470.5	421.5	407.6	401.6	400.0
45°	1528.0	886.8	471.7	427.5	443.4	456.6	440.2	410.4	402.4	397.6	396.0
47.5°	1676.5	892.4	439.0	411.2	430.6	440.6	406.4	402.8	397.2	390.5	389.7
50°	1814.2	887.2	415.9	402.0	419.5	421.5	392.4	393.6	390.5	382.9	381.3
52.5°	1926.8	870.9	401.2	397.2	410.0	388.1	379.3	383.7	382.5	372.9	371.4
55°	2050.6	860.9	394.1	397.2	403.6	359.0	367.0	373.3	371.8	365.0	364.6
57.5°	2200.7	862.9	388.8	398.4	397.2	344.3	354.6	362.2	361.8	359.8	359.8
60°	2354.3	863.7	380.9	398.0	389.7	332.8	341.9	352.7	353.4	354.6	354.6
62.5°	2405.3	829.1	365.4	390.9	372.9	321.6	330.0	344.7	343.9	347.1	347.5
65°	2310.2	733.2	342.3	374.5	351.5	313.7	320.8	334.3	330.0	338.3	339.9
67.5°	2102.7	606.6	306.5	345.1	327.6	305.3	314.8	320.0	312.0	328.4	328.8
70°	1817.4	473.6	261.1	303.3	300.5	296.5	310.1	302.1	291.0	310.9	306.9
72.5°	1519.6	361.8	208.6	248.0	264.3	283.4	301.7	279.0	263.5	269.4	262.3
75°	1141.5	267.5	167.6	194.3	220.1	264.7	294.2	251.2	227.3	221.7	220.1
77.5°	581.9	174.8	125.4	145.2	165.2	239.2	283.8	218.5	188.2	179.5	175.5
80°	207.8	108.7	88.4	100.3	111.4	205.8	248.0	180.7	146.1	144.5	146.1
82.5°	96.3	70.1	59.3	65.7	66.1	137.3	189.1	134.9	111.0	168.7	142.5
85°	41.4	35.0	33.4	32.7	30.2	61.3	106.3	72.4	113.1	50.6	46.6
87.5°	12.4	13.9	12.4	9.2	6.7	6.7	10.7	4.0	2.8	2.0	2.0
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)