

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: P646768

Luminaire Tested: **GALN-SA2C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646768  
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-SA2C-835-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9988.7 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

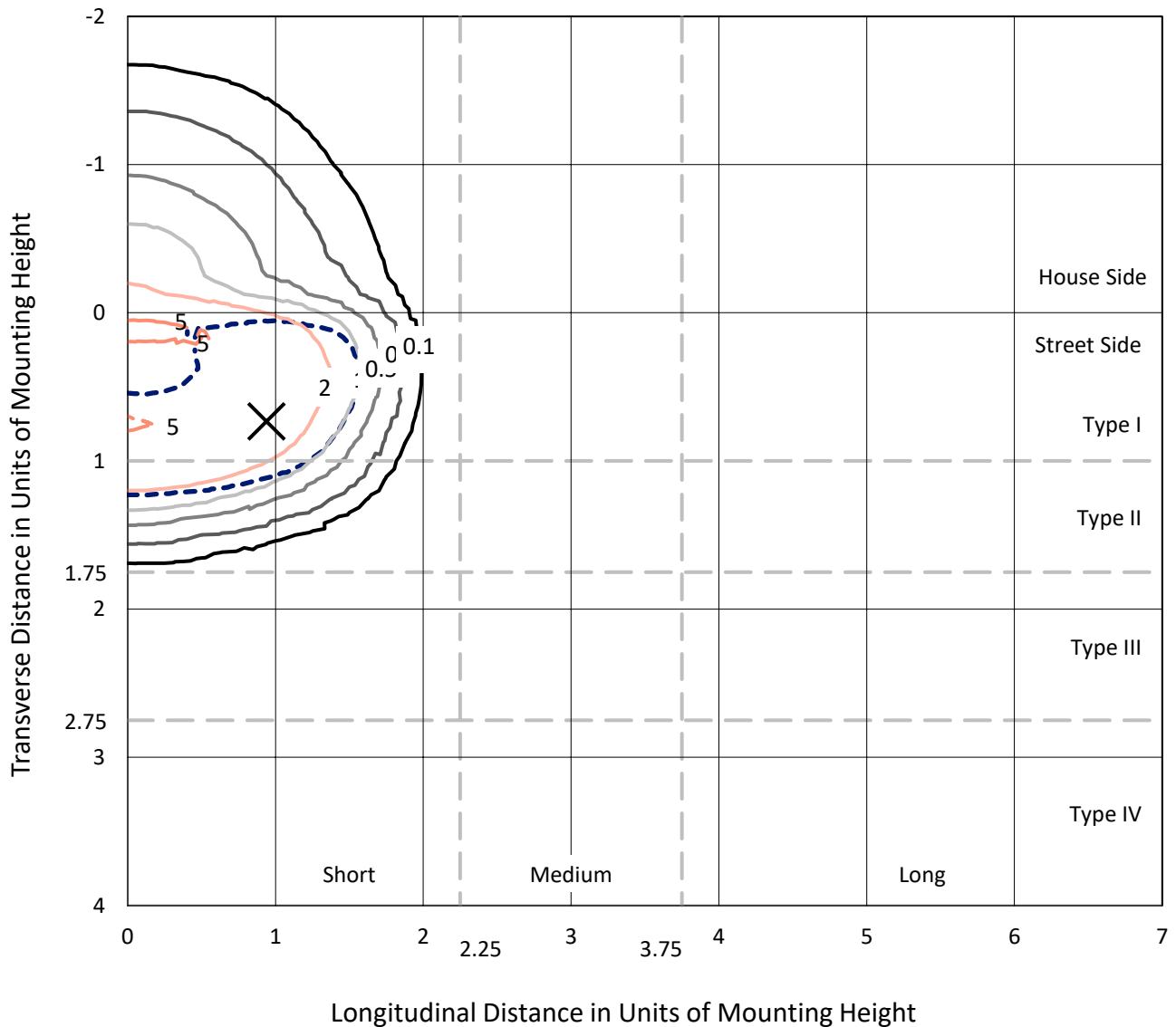
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

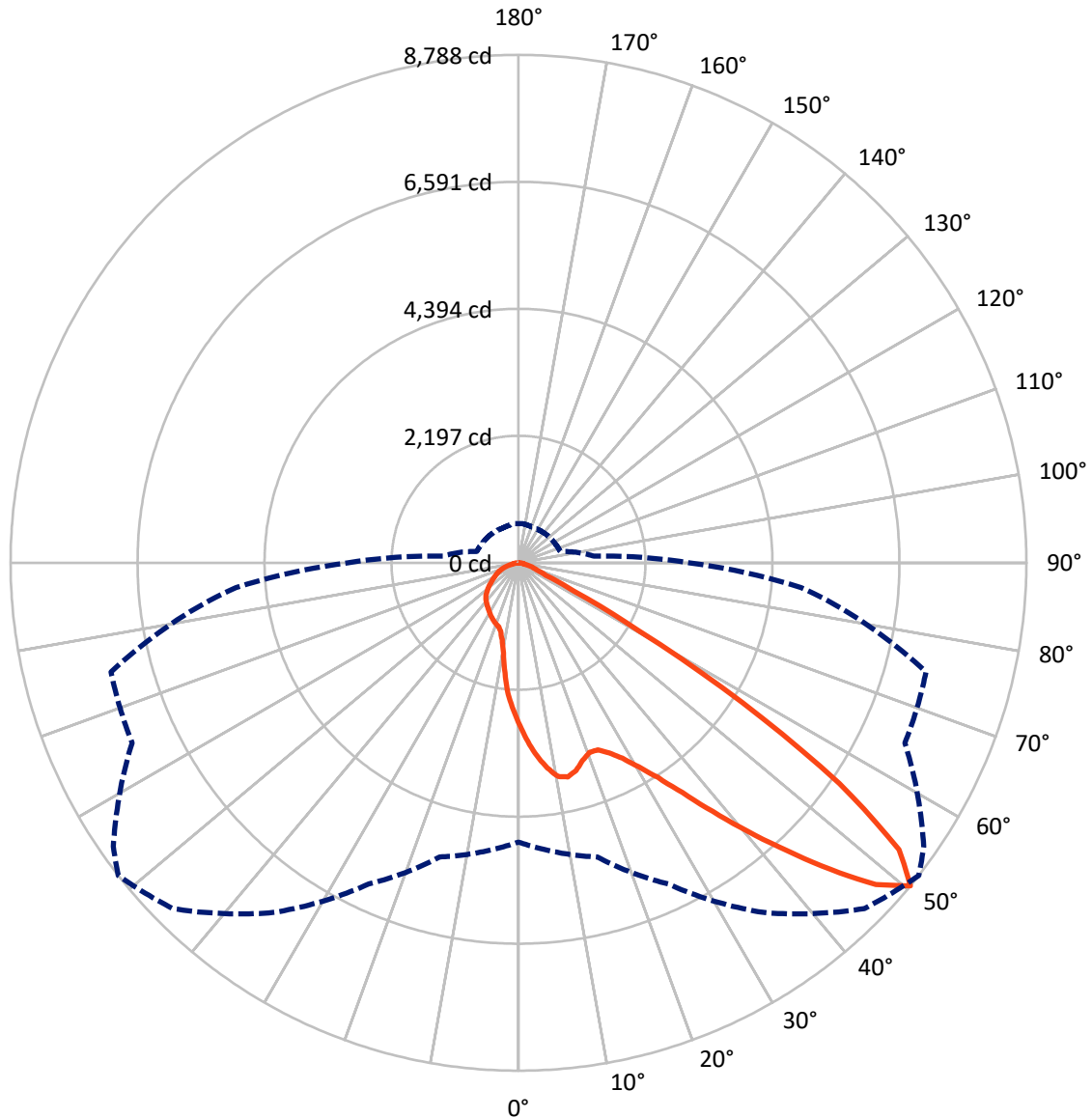
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1877.6	0.0	1877.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8111.1	0.0	8111.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9988.7	0.0	9988.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.5	2.6
10°-20°	695.6	7.0
20°-30°	1171.7	11.7
30°-40°	1966.2	19.7
40°-50°	3007.7	30.1
50°-60°	2192.9	22.0
60°-70°	488.0	4.9
70°-80°	176.0	1.8
80°-90°	31.2	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°	9988.7	100.0
0°-180°	9988.7	100.0

**Coefficient of Utilization**

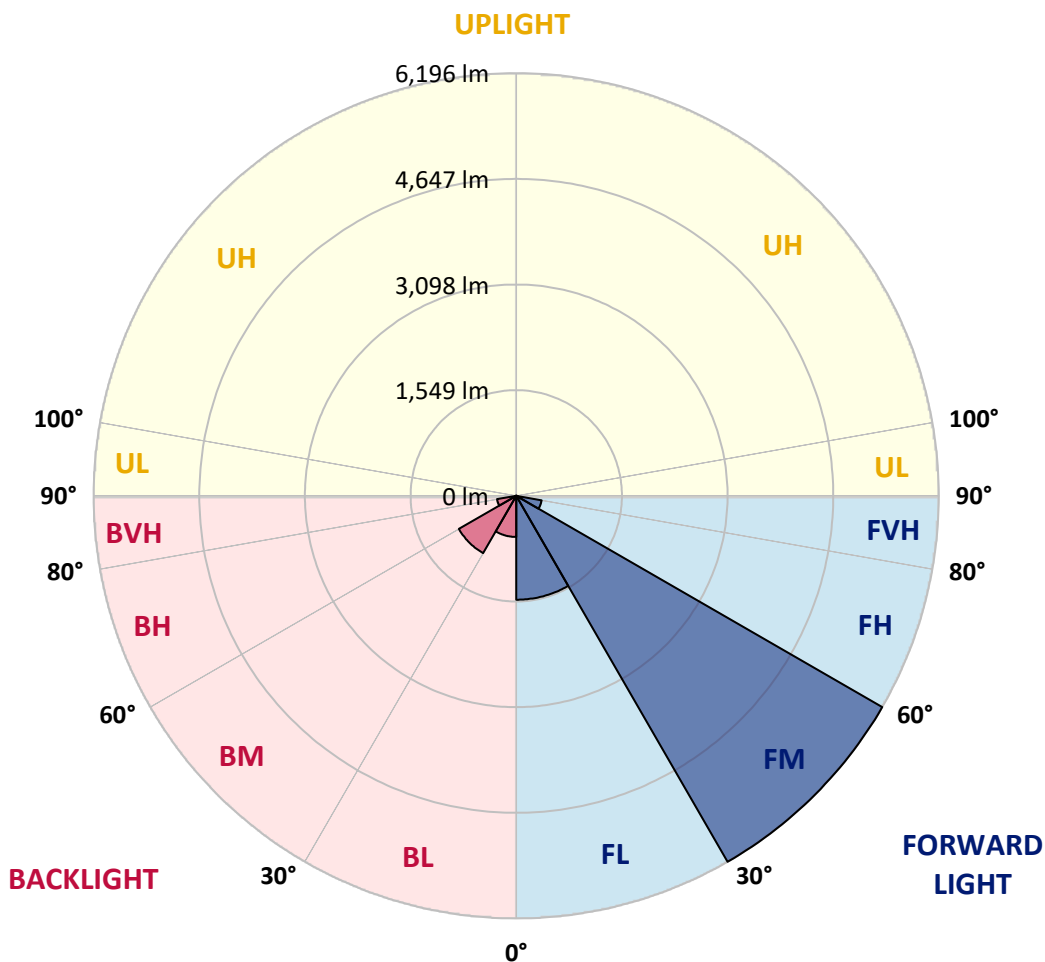


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.6	15.3			
FM (30°-60°)	6195.5	62.0			
FH (60°-80°)	378.0	3.8			G0/660
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	603.1	6.0	B2/1000		
BM (30°-60°)	971.3	9.7	B1/1000		
BH (60°-80°)	286.1	2.9	B1/500		G1/500
BVH (80°-90°)	17.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	3315.2	3251.4	3258.7	3212.9	3163.6	3149.1	3098.6	3050.4	3014.3	2937.3	2866.2
5°	3623.4	3604.1	3575.3	3539.2	3501.8	3410.4	3358.6	3298.4	3166.0	3046.8	2928.8
7.5°	3668.0	3664.4	3679.9	3679.9	3693.3	3658.3	3584.9	3542.8	3401.9	3208.1	2989.0
10°	3354.9	3365.8	3441.6	3540.3	3677.6	3772.7	3760.6	3749.8	3595.7	3330.9	3060.0
12.5°	3105.8	3081.7	3126.2	3210.5	3416.4	3646.3	3801.5	3802.8	3763.0	3527.1	3111.8
15°	2964.9	2981.7	2993.8	3033.6	3188.8	3454.8	3728.1	3808.7	3983.4	3665.5	3193.6
17.5°	3055.2	2998.7	2996.2	3005.9	3085.3	3285.2	3592.1	3730.5	4103.7	3843.7	3294.8
20°	3173.2	3172.0	3138.3	3126.2	3125.0	3303.2	3503.0	3690.8	4167.5	4074.8	3397.1
22.5°	3380.2	3380.2	3324.9	3298.4	3241.8	3387.5	3515.0	3642.7	4273.5	4233.7	3446.5
25°	3726.9	3670.3	3575.3	3510.3	3477.8	3529.5	3642.7	3757.0	4366.2	4402.3	3548.8
27.5°	4047.2	3958.1	3911.1	3799.1	3755.8	3725.7	3829.3	3944.8	4474.5	4664.6	3604.1
30°	4410.6	4395.1	4310.7	4166.3	4059.2	4003.8	4098.9	4213.2	4673.1	4933.1	3731.8
32.5°	5060.7	4918.6	4804.3	4627.4	4452.8	4334.8	4428.7	4504.6	5002.9	5213.6	3871.4
35°	5762.6	5716.8	5519.4	5200.4	4933.1	4827.2	4882.6	4939.2	5387.0	5642.1	4106.1
37.5°	6452.3	6389.7	6227.2	5958.7	5633.7	5418.3	5458.0	5524.1	5817.9	6220.0	4392.6
40°	6948.3	6871.2	6789.4	6749.6	6427.0	6132.1	6109.2	6126.0	6400.6	6761.7	4710.4
42.5°	6984.4	7079.5	7104.8	7264.8	7189.0	6947.1	6806.2	6809.8	6956.7	7297.3	5031.8
45°	6908.6	6820.6	7007.2	7444.2	7694.6	7807.8	7570.6	7540.5	7301.0	7607.9	5191.9
47.5°	6112.8	6136.9	6452.3	7143.3	7866.7	8372.3	8316.9	8217.0	7485.2	7597.1	5166.6
50°	4832.0	4977.7	5270.2	6130.9	7385.3	8461.4	8787.6	8556.5	7375.6	7298.6	4909.0
52.5°	3217.7	3277.9	3470.5	4581.6	5938.3	7563.4	8245.9	8298.9	7274.5	6907.3	4582.8
55°	1432.5	1427.7	1698.6	2393.2	3725.7	5755.3	6737.6	7060.2	6885.6	6508.8	4265.0
57.5°	606.7	627.2	737.9	1034.0	1832.1	3472.9	4564.7	4847.6	5295.4	5344.8	3271.9
60°	410.5	412.9	443.0	517.6	766.8	1631.1	2394.3	2733.8	3054.0	3032.3	1735.8
62.5°	322.6	331.1	353.9	384.0	455.0	740.3	1071.4	1260.4	1280.8	1077.4	658.5
65°	275.7	276.9	299.7	325.0	356.3	431.0	516.4	526.0	532.0	512.8	483.9
67.5°	227.5	229.9	248.0	276.9	305.8	329.8	353.9	366.0	393.6	447.8	440.6
70°	180.6	184.2	199.8	223.9	250.4	264.8	295.0	305.8	331.1	373.2	390.0
72.5°	137.3	138.4	151.7	168.5	192.6	207.0	232.3	244.4	261.2	297.3	313.0
75°	98.7	102.3	112.0	120.3	124.0	133.7	157.7	170.9	195.0	210.6	211.9
77.5°	51.8	54.2	56.6	56.6	68.6	86.7	102.3	109.5	126.4	138.4	132.4
80°	20.4	21.7	27.7	37.3	48.2	62.6	73.4	77.0	91.5	98.7	102.3
82.5°	12.1	13.2	18.1	26.5	34.9	44.6	52.9	56.6	66.2	74.6	77.0
85°	6.0	7.2	10.8	16.8	22.9	27.7	26.5	25.3	25.3	24.0	25.3
87.5°	2.4	2.4	3.6	3.6	3.6	4.8	6.0	6.0	6.0	7.2	7.2
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°	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	2819.3	2771.1	2726.6	2644.7	2555.6	2530.3	2426.8	2389.5	2363.0	2331.8	2322.1
5°	2833.7	2769.9	2626.7	2461.8	2330.5	2162.0	2051.2	1932.1	1845.4	1823.8	1817.7
7.5°	2863.8	2754.3	2507.5	2258.3	1989.8	1761.1	1586.6	1492.7	1409.6	1404.8	1396.4
10°	2897.5	2707.3	2377.5	1986.2	1643.2	1431.3	1326.6	1285.6	1265.2	1260.4	1258.0
12.5°	2925.2	2697.7	2231.8	1721.4	1397.6	1270.0	1238.7	1235.1	1243.5	1245.9	1250.8
15°	2937.3	2659.1	2056.1	1484.3	1244.7	1197.8	1211.0	1225.5	1231.5	1247.2	1235.1
17.5°	2960.1	2609.8	1839.4	1296.5	1159.2	1167.7	1190.6	1207.4	1217.0	1227.9	1212.2
20°	2972.1	2565.3	1635.9	1184.5	1129.2	1144.8	1176.1	1189.4	1201.4	1206.2	1188.1
22.5°	2961.3	2473.8	1456.6	1094.2	1100.3	1120.7	1148.4	1162.8	1155.6	1136.4	1125.6
25°	2932.4	2345.0	1270.0	1036.5	1059.3	1095.4	1117.1	1106.3	1093.1	1082.2	1078.6
27.5°	2931.2	2187.3	1135.2	983.5	1024.4	1073.8	1066.5	1056.9	1062.9	1054.5	1044.9
30°	2937.3	2034.4	1024.4	953.4	999.1	1023.2	1031.7	1022.0	1029.3	1013.6	1018.4
32.5°	2905.9	1885.2	952.2	918.5	969.0	967.9	995.5	1002.8	985.9	953.4	958.2
35°	2919.2	1764.7	890.8	902.9	935.4	935.4	957.0	948.6	904.1	884.8	889.6
37.5°	3010.6	1646.8	860.7	881.2	902.9	912.5	905.2	869.1	858.3	858.3	860.7
40°	3097.3	1545.6	842.7	876.3	872.7	878.8	825.8	829.4	829.4	830.6	824.6
42.5°	3174.4	1477.1	828.2	847.4	853.5	822.2	789.7	786.1	794.5	793.3	788.5
45°	3202.1	1420.4	807.7	814.9	819.8	768.0	752.4	745.2	754.8	758.4	763.2
47.5°	3096.1	1373.5	784.9	770.4	760.8	727.1	706.7	693.3	705.4	725.9	730.7
50°	2960.1	1312.2	748.8	721.1	700.6	686.1	671.7	658.5	666.9	681.4	677.8
52.5°	2759.1	1215.8	703.0	674.1	639.2	642.8	629.6	622.3	627.2	627.2	623.6
55°	2472.6	999.1	625.9	605.5	576.6	586.2	588.7	579.0	569.4	577.9	570.6
57.5°	1687.7	705.4	558.6	558.6	529.7	542.9	541.7	518.8	496.0	498.4	493.5
60°	976.2	562.2	515.2	510.4	480.3	491.2	493.5	477.9	443.0	445.4	440.6
62.5°	554.9	480.3	450.2	443.0	437.0	446.6	446.6	426.1	396.0	398.5	393.6
65°	471.9	445.4	402.1	400.9	398.5	400.9	391.3	369.6	343.1	332.2	333.5
67.5°	428.5	411.7	369.6	358.7	351.5	350.3	332.2	311.8	299.7	290.1	288.9
70°	375.6	362.4	331.1	316.6	309.4	292.5	274.4	261.2	244.4	239.5	244.4
72.5°	297.3	296.1	284.1	268.4	252.8	239.5	223.9	205.9	190.2	186.6	178.1
75°	205.9	208.3	210.6	208.3	195.0	178.1	160.1	145.6	126.4	115.6	113.1
77.5°	134.8	138.4	142.0	137.3	128.8	113.1	101.1	83.1	68.6	60.2	59.0
80°	98.7	103.5	105.9	102.3	92.7	80.6	67.4	52.9	42.1	34.9	34.9
82.5°	75.9	80.6	83.1	77.0	67.4	57.8	48.2	37.3	28.9	22.9	21.7
85°	26.5	25.3	30.1	31.3	37.3	34.9	28.9	21.7	16.8	12.1	10.8
87.5°	7.2	7.2	8.5	8.5	7.2	6.0	6.0	6.0	4.8	3.6	3.6
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)