

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: P652128

Luminaire Tested: **GALN-SA9A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652128  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20567.5 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

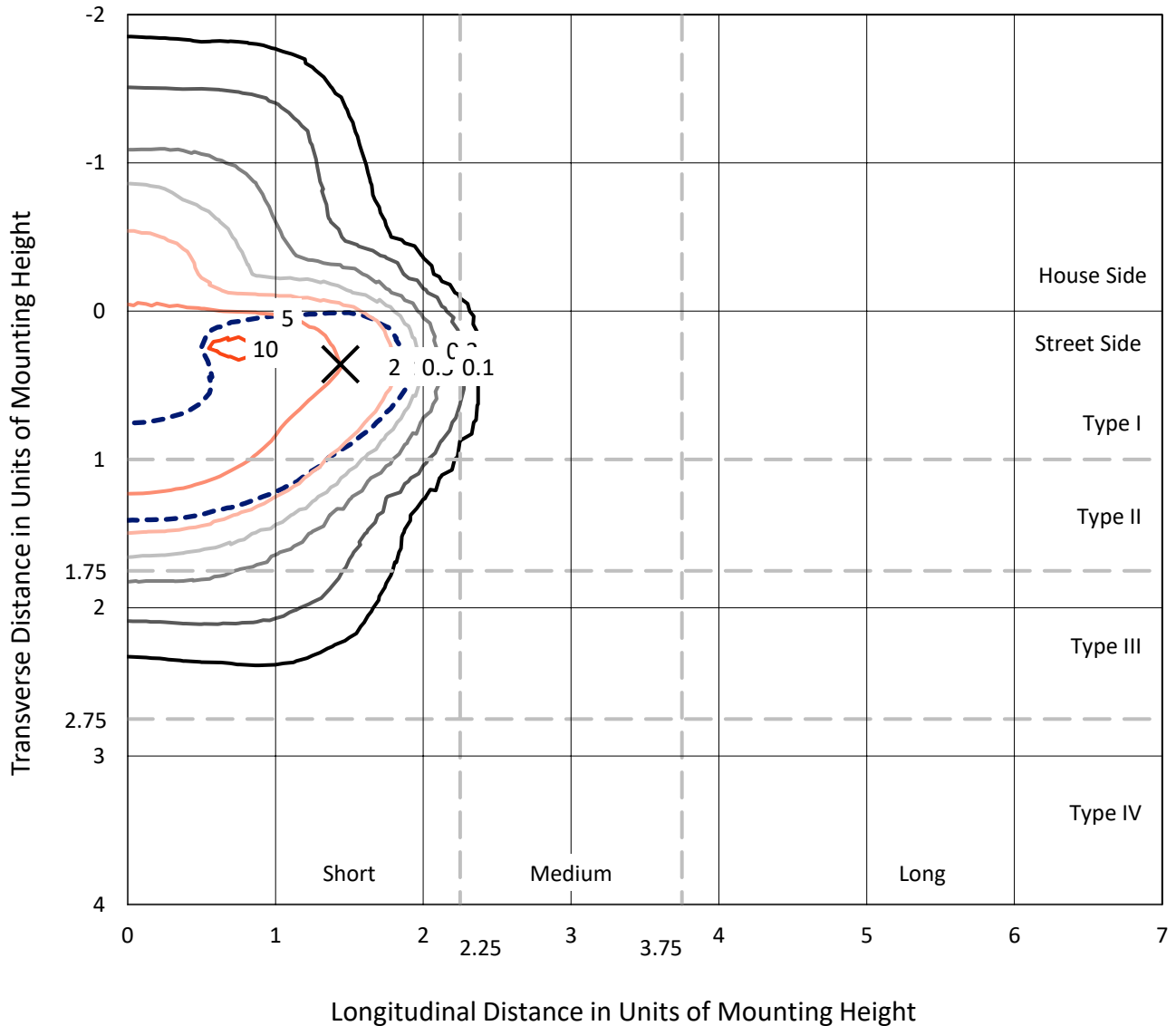
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

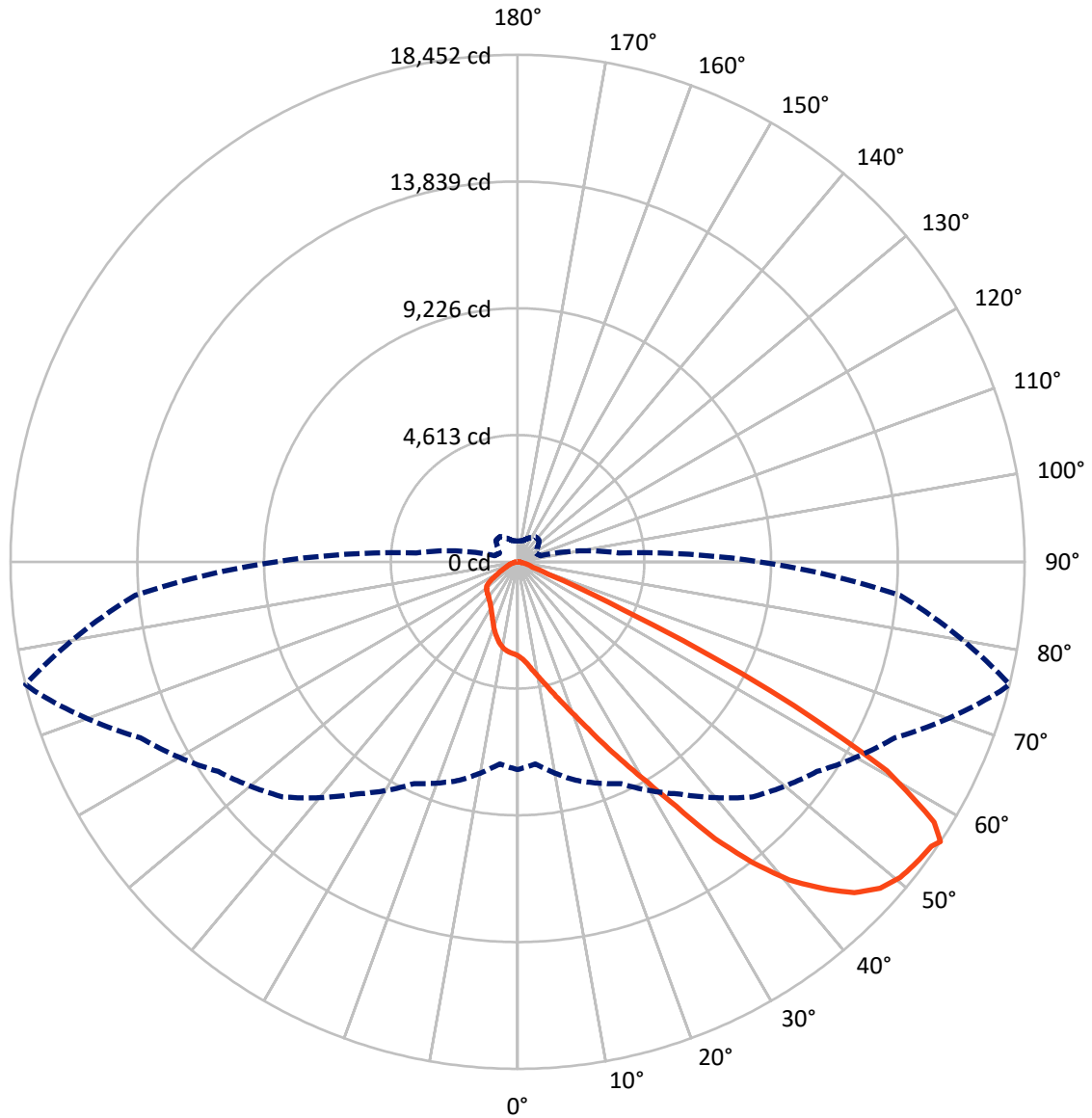
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3231.0	0.0	3231.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	17336.4	0.0	17336.4
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	20567.5	0.0	20567.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.9	1.7
10°-20°	1107.9	5.4
20°-30°	2009.0	9.8
30°-40°	3464.6	16.8
40°-50°	5628.3	27.4
50°-60°	5932.5	28.8
60°-70°	1812.6	8.8
70°-80°	232.4	1.1
80°-90°	35.3	0.2
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°	20567.5	100.0
0°-180°	20567.5	100.0

**Coefficient of Utilization**

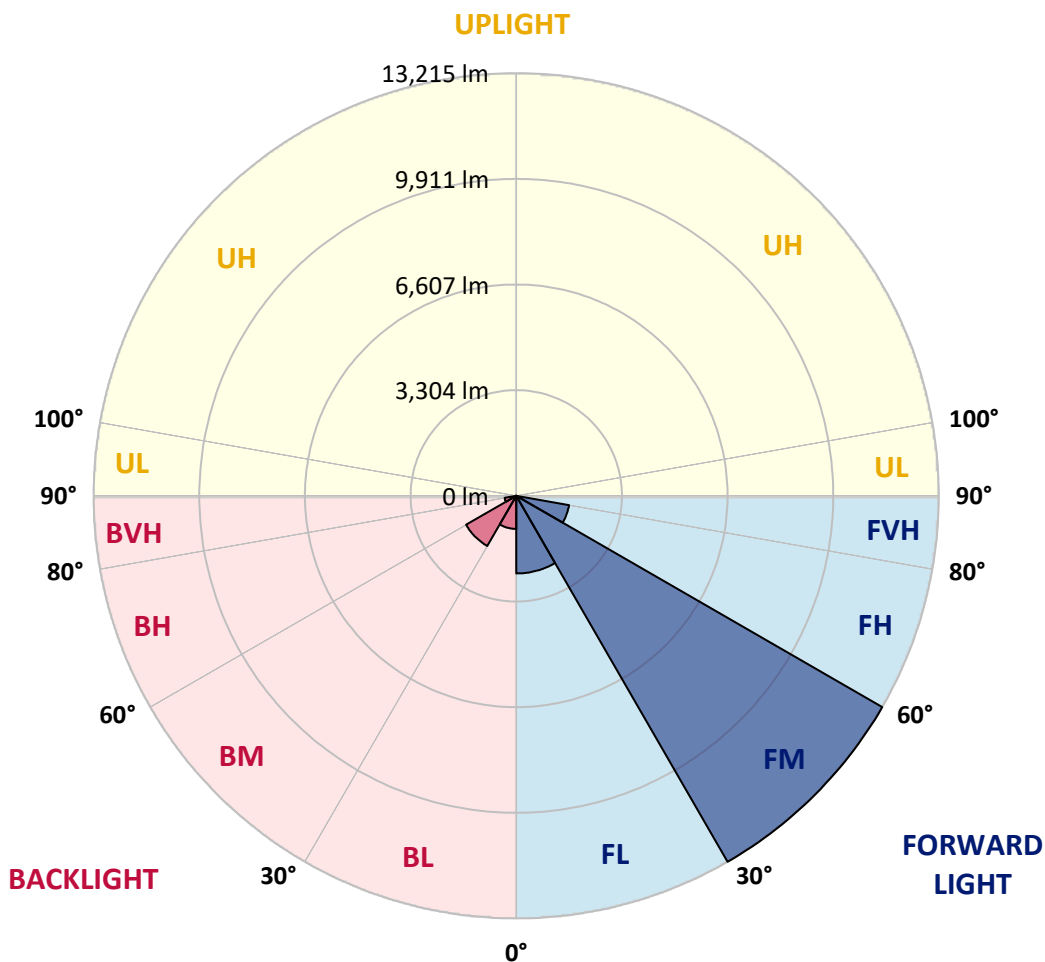


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.2	11.8			
FM (30°-60°)	13214.6	64.2			
FH (60°-80°)	1676.4	8.2			G1/1800
FVH (80°-90°)	17.3	0.1			G1/100
BL (0°-30°)	1033.6	5.0	B3/2500		
BM (30°-60°)	1810.8	8.8	B2/2500		
BH (60°-80°)	368.6	1.8	B1/500		G1/500
BVH (80°-90°)	18.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5
2.5°	3942.9	3851.9	3855.7	3848.1	3836.7	3795.0	3670.0	3650.9	3567.5	3544.8	3469.0
5°	4416.8	4337.2	4382.7	4314.4	4250.0	4212.1	4007.4	3912.6	3779.9	3730.6	3624.5
7.5°	4712.5	4674.6	4659.5	4663.3	4602.5	4507.8	4416.8	4208.3	4030.1	3992.1	3768.5
10°	4856.6	4833.8	4856.6	4845.2	4871.7	4883.1	4723.9	4598.8	4337.2	4272.7	3923.9
12.5°	4890.7	4936.2	4955.2	5004.5	5068.9	5178.8	5167.4	4996.9	4648.0	4606.3	4162.8
15°	4974.1	5012.0	4993.1	5072.7	5194.0	5379.8	5478.4	5451.8	5076.4	5000.7	4439.6
17.5°	5050.0	4981.7	5046.2	5205.4	5326.7	5611.1	5849.9	5959.8	5542.8	5455.6	4693.5
20°	5152.3	5133.4	5121.9	5201.6	5417.7	5796.8	6270.7	6471.7	6066.0	5975.0	5057.5
22.5°	5463.2	5467.0	5459.4	5341.9	5497.3	5925.7	6638.4	7135.1	6691.5	6615.7	5470.8
25°	5872.6	5823.3	5785.4	5690.6	5671.7	6043.3	7010.0	7946.4	7442.2	7389.1	5918.1
27.5°	6304.8	6304.8	6191.1	6103.9	5982.5	6335.2	7351.2	8735.0	8348.4	8276.3	6308.6
30°	6774.9	6801.5	6786.3	6600.6	6524.7	6653.7	7700.0	9743.5	9387.1	9296.2	6953.1
32.5°	7468.8	7411.9	7476.3	7320.9	7097.2	7210.9	8249.7	10645.8	10736.8	10607.9	7798.6
35°	8386.2	8352.1	8310.4	8056.4	7791.0	7882.0	9027.0	11756.7	12431.5	12367.0	8651.6
37.5°	9208.9	9189.9	9155.9	8981.5	8674.3	8784.3	9910.3	12913.0	14084.5	13872.1	9857.2
40°	10073.3	10175.7	10065.8	9910.3	9629.8	9872.4	10949.1	13599.2	15475.8	15218.1	10778.5
42.5°	11244.8	11165.2	11214.5	10930.1	10778.5	11043.8	11991.7	14285.4	16556.3	16249.3	11756.7
45°	12492.1	12495.9	12363.2	12272.2	11877.9	12166.1	12632.4	14664.5	17416.9	17178.1	12495.9
47.5°	13292.1	13288.3	13432.4	13576.4	13170.7	12886.4	13068.4	15024.7	17860.6	17750.6	12765.1
50°	13166.9	13204.9	13390.7	13929.0	14141.3	13758.4	13477.9	14918.5	18061.5	18050.1	12996.4
52.5°	11453.3	11578.5	11889.3	12666.6	13735.6	14209.5	13906.3	15115.7	18160.0	18179.0	13341.4
55°	8719.8	8788.1	9379.5	10323.5	11506.4	13129.1	13735.6	15271.1	18235.9	18270.0	13758.4
56°	7563.5	7381.5	8234.6	8905.6	10319.7	12094.1	13303.4	15149.8	18190.4	18452.0	13966.9
57.5°	5709.6	5588.3	6278.3	7116.1	8477.2	10350.1	11961.4	14577.3	17883.3	17879.5	13667.4
60°	3472.7	3351.5	3882.2	4375.1	5137.2	6373.1	8082.9	11608.7	15119.5	15437.9	11066.6
62.5°	2066.3	2142.0	2665.2	2964.8	3211.2	3340.1	4181.7	6900.1	10088.5	10316.0	6865.9
65°	1376.2	1402.8	1797.0	2289.9	2399.9	1910.8	1702.3	2794.1	4375.1	4234.9	2832.1
67.5°	849.2	909.9	1205.6	1721.2	1907.0	1395.1	807.5	1042.6	1205.6	1205.6	818.9
70°	515.6	546.0	803.7	1171.5	1308.0	898.5	587.6	587.6	580.0	568.7	489.0
72.5°	246.4	265.4	409.5	602.8	614.2	473.9	455.0	496.7	485.3	481.5	405.7
75°	106.1	113.7	144.1	189.6	216.1	200.9	276.8	356.4	367.8	356.4	291.9
77.5°	34.1	37.9	53.1	68.2	72.1	87.2	117.5	147.8	170.6	159.2	144.1
80°	3.8	7.6	15.1	34.1	53.1	68.2	87.2	98.6	109.9	109.9	102.3
82.5°	3.8	3.8	15.1	30.4	49.3	64.4	83.4	94.8	109.9	113.7	106.1
85°	0.0	3.8	11.4	26.6	41.7	41.7	37.9	37.9	26.6	26.6	26.6
87.5°	0.0	0.0	3.8	3.8	3.8	7.6	7.6	7.6	7.6	7.6	7.6
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°	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5	3423.5
2.5°	3453.8	3446.2	3343.9	3279.4	3245.3	3177.0	3135.3	3105.1	3082.3	3055.8	3059.6
5°	3499.3	3472.7	3302.2	3184.6	3044.3	2968.6	2904.1	2851.0	2816.9	2809.3	2794.1
7.5°	3628.2	3488.0	3230.1	3017.8	2839.6	2763.8	2706.9	2672.9	2688.0	2653.9	2680.4
10°	3726.8	3518.2	3142.9	2835.9	2657.6	2600.8	2570.4	2597.0	2634.9	2619.7	2600.8
12.5°	3848.1	3548.6	3002.6	2661.4	2494.7	2452.9	2506.0	2555.3	2631.2	2661.4	2623.5
15°	3984.6	3582.7	2824.5	2460.5	2354.4	2388.4	2479.4	2566.6	2642.5	2680.4	2703.1
17.5°	4151.4	3571.4	2650.1	2301.3	2221.7	2320.2	2430.2	2509.8	2623.5	2680.4	2665.2
20°	4306.8	3533.5	2456.7	2142.0	2145.8	2236.8	2327.8	2456.7	2517.4	2593.2	2566.6
22.5°	4454.7	3465.2	2255.8	2032.1	2032.1	2172.4	2217.9	2301.3	2354.4	2392.3	2388.4
25°	4663.3	3336.3	2089.0	1926.0	1971.5	2062.5	2100.3	2126.9	2104.1	2134.5	2138.2
27.5°	4811.1	3203.6	1952.5	1831.2	1914.5	1982.8	1971.5	1956.3	1903.2	1861.5	1888.0
30°	4970.3	3048.1	1835.0	1766.7	1812.2	1872.9	1827.4	1781.9	1698.5	1630.2	1634.1
32.5°	5197.8	2976.1	1732.6	1690.9	1751.6	1759.1	1709.8	1641.6	1558.2	1493.8	1490.0
35°	5622.4	2930.6	1645.4	1641.6	1653.0	1656.8	1607.5	1524.1	1490.0	1436.8	1455.9
37.5°	6047.0	2907.8	1584.8	1569.6	1565.8	1569.6	1512.7	1433.1	1497.6	1493.8	1501.4
40°	6589.2	3010.3	1497.6	1478.6	1482.3	1482.3	1410.4	1387.6	1501.4	1512.7	1516.5
42.5°	7138.9	3139.1	1440.6	1380.0	1395.1	1395.1	1357.3	1330.7	1410.4	1334.5	1323.1
45°	7616.6	3328.7	1380.0	1281.4	1319.4	1338.3	1326.9	1281.4	1232.1	1103.2	1103.2
47.5°	7772.0	3495.5	1308.0	1186.7	1217.0	1300.4	1266.3	1171.5	1084.3	978.2	970.6
50°	8045.0	3677.5	1251.1	1076.7	1141.2	1243.5	1209.4	1114.7	1016.0	940.2	944.0
52.5°	8325.6	3886.0	1144.9	947.8	1027.4	1198.0	1198.0	1091.9	940.2	887.2	879.6
55°	8746.4	3878.4	955.4	777.2	917.4	1129.8	1148.7	978.2	841.7	800.0	800.0
56°	8807.0	3704.0	860.6	727.9	868.2	1110.8	1114.7	947.8	803.7	758.2	758.2
57.5°	8352.1	3343.9	754.5	667.2	807.5	1076.7	1080.5	921.2	773.4	709.0	701.4
60°	6426.2	2263.4	629.3	595.3	731.7	970.6	989.5	837.9	678.6	629.3	625.5
62.5°	3628.2	1254.9	553.5	538.3	629.3	826.5	883.4	731.7	576.3	549.8	557.3
65°	1656.8	690.0	466.3	436.0	508.0	636.9	712.7	602.8	473.9	443.5	443.5
67.5°	606.6	470.1	398.0	345.0	356.4	413.3	462.6	390.5	314.7	269.2	280.6
70°	432.2	394.3	348.8	299.5	276.8	269.2	265.4	219.9	155.4	121.4	128.9
72.5°	348.8	326.1	291.9	254.0	216.1	182.0	155.4	113.7	72.1	49.3	45.5
75°	250.2	238.8	212.3	182.0	151.6	128.9	106.1	72.1	37.9	18.9	18.9
77.5°	128.9	128.9	125.1	113.7	94.8	75.9	60.6	41.7	22.7	7.6	7.6
80°	98.6	106.1	109.9	98.6	87.2	68.2	49.3	30.4	15.1	3.8	3.8
82.5°	94.8	109.9	117.5	102.3	87.2	64.4	49.3	30.4	15.1	3.8	3.8
85°	22.7	22.7	34.1	37.9	49.3	53.1	41.7	26.6	11.4	3.8	3.8
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8	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)