

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: P650948

Luminaire Tested: **GALN-SA6C-840-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650948
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-SA6C-840-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 31637.6 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

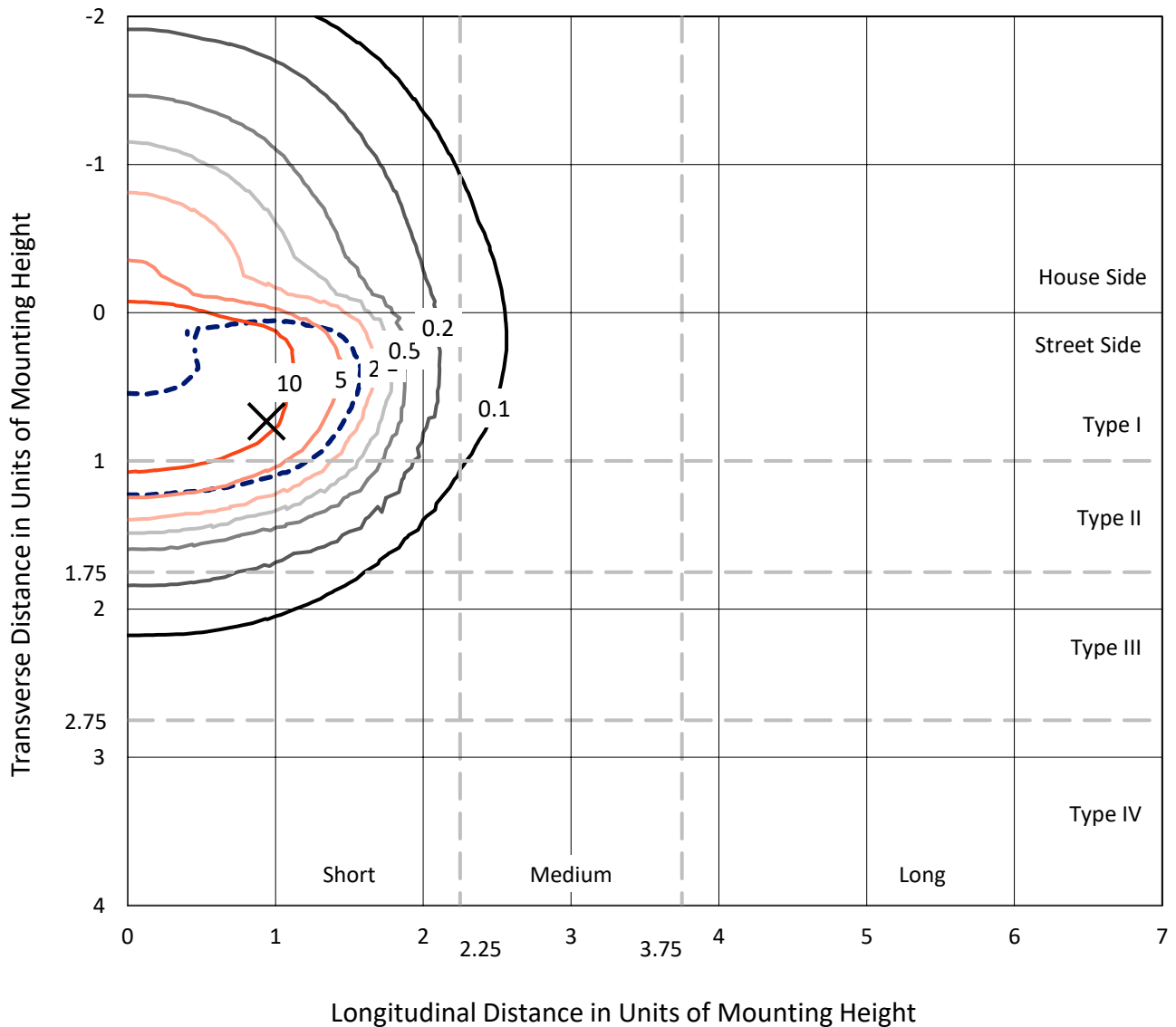
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

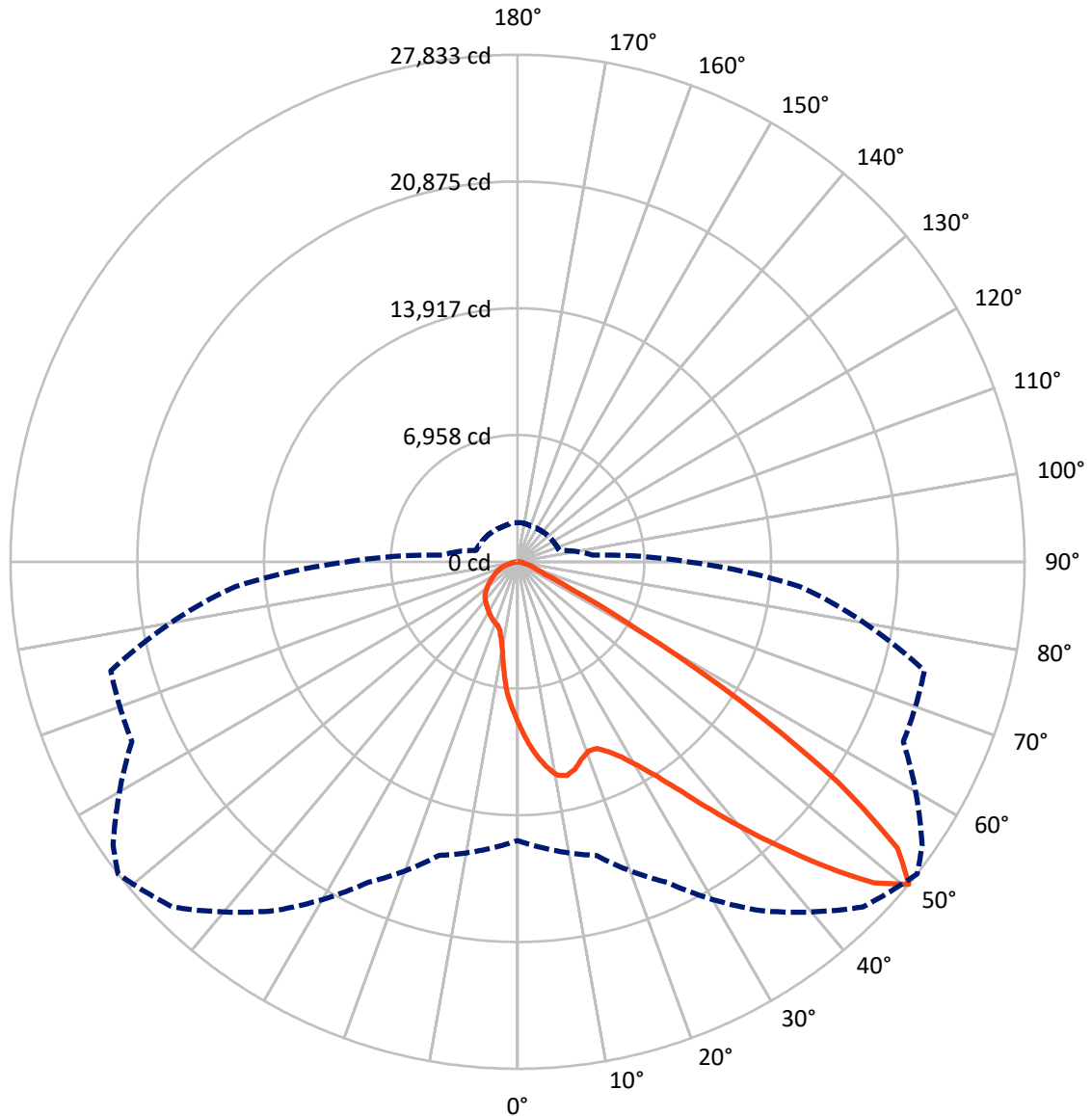
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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
House Side	Lumens	5947.1	0.0	5947.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	25690.5	0.0	25690.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	31637.6	0.0	31637.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.0	2.6
10°-20°	2203.1	7.0
20°-30°	3711.1	11.7
30°-40°	6227.4	19.7
40°-50°	9526.5	30.1
50°-60°	6945.6	22.0
60°-70°	1545.7	4.9
70°-80°	557.5	1.8
80°-90°	98.7	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°	31637.6	100.0
0°-180°	31637.6	100.0

Coefficient of Utilization



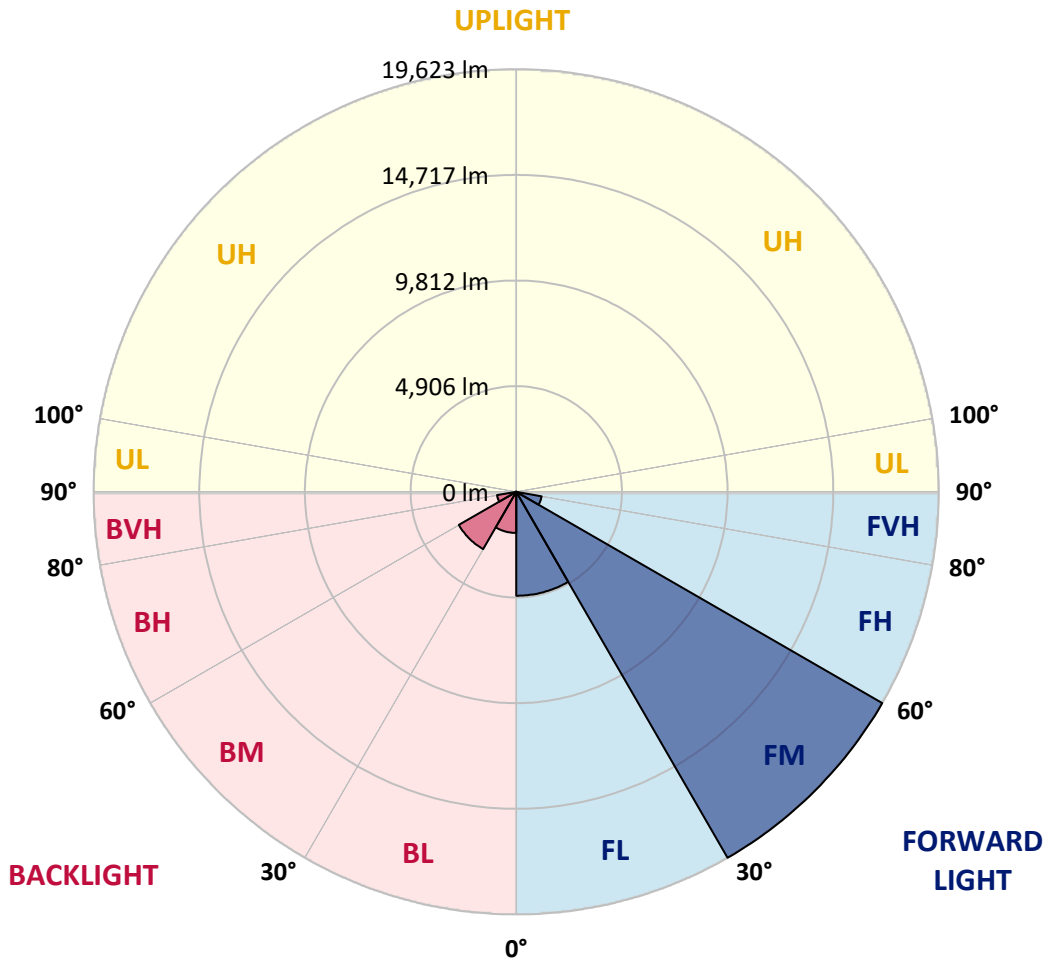
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4825.8	15.3			
FM (30°-60°)	19623.2	62.0			
FH (60°-80°)	1197.2	3.8			G1/1800
FVH (80°-90°)	44.2	0.1			G1/100
BL (0°-30°)	1910.3	6.0	B3/2500		
BM (30°-60°)	3076.3	9.7	B3/5000		
BH (60°-80°)	906.1	2.9	B2/1000		G2/1000
BVH (80°-90°)	54.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1
2.5°	10500.4	10298.3	10321.3	10176.4	10020.0	9974.3	9814.1	9661.6	9547.2	9303.2	9078.3
5°	11476.5	11415.5	11324.0	11209.6	11091.4	10801.6	10637.6	10447.1	10027.7	9650.1	9276.5
7.5°	11617.6	11606.1	11655.7	11655.7	11697.6	11587.0	11354.5	11221.0	10775.0	10161.0	9467.1
10°	10626.2	10660.5	10900.8	11213.4	11648.1	11949.3	11911.2	11876.9	11388.8	10550.0	9692.1
12.5°	9837.0	9760.7	9901.8	10168.7	10820.7	11548.9	12040.8	12044.6	11918.7	11171.5	9856.0
15°	9390.9	9444.3	9482.4	9608.3	10100.1	10942.7	11808.2	12063.6	12616.5	11609.9	10115.3
17.5°	9676.9	9497.7	9490.0	9520.5	9772.2	10405.1	11377.4	11815.8	12997.8	12174.2	10435.6
20°	10050.5	10046.7	9939.9	9901.8	9898.0	10462.3	11095.2	11690.0	13199.8	12906.3	10759.7
22.5°	10706.3	10706.3	10530.9	10447.1	10267.9	10729.1	11133.3	11537.5	13535.4	13409.6	10916.0
25°	11804.4	11625.2	11324.0	11118.1	11015.2	11179.1	11537.5	11899.7	13829.0	13943.4	11240.1
27.5°	12818.6	12536.5	12387.8	12033.2	11895.9	11800.6	12128.5	12494.5	14172.1	14774.5	11415.5
30°	13970.0	13920.5	13653.6	13196.0	12856.7	12681.4	12982.5	13344.7	14801.3	15624.8	11819.7
32.5°	16029.0	15579.0	15216.8	14656.4	14103.5	13729.8	14027.2	14267.5	15846.0	16513.2	12261.9
35°	18251.8	18106.9	17481.6	16471.2	15624.8	15289.3	15464.6	15643.9	17062.2	17870.5	13005.4
37.5°	20436.6	20238.2	19723.6	18873.3	17843.8	17161.4	17287.2	17496.9	18427.2	19700.7	13912.8
40°	22007.4	21763.4	21504.1	21378.3	20356.5	19422.3	19349.9	19403.3	20272.6	21416.4	14919.4
42.5°	22121.8	22423.0	22503.1	23010.2	22770.0	22003.6	21557.5	21569.0	22034.1	23113.1	15937.5
45°	21881.6	21603.3	22194.2	23578.3	24371.3	24729.8	23978.6	23883.3	23124.6	24096.8	16444.6
47.5°	19361.3	19437.6	20436.6	22625.1	24916.6	26517.9	26342.6	26026.1	23707.9	24062.5	16364.5
50°	15304.5	15765.9	16692.4	19418.5	23391.5	26800.1	27833.3	27101.3	23361.0	23116.9	15548.6
52.5°	10191.6	10382.2	10992.3	14511.5	18808.5	23955.7	26117.6	26285.4	23040.7	21877.8	14515.2
55°	4537.2	4522.0	5379.9	7579.8	11800.6	18228.9	21340.2	22362.0	21809.1	20615.8	13508.7
57.5°	1921.7	1986.4	2337.2	3275.2	5803.1	10999.9	14458.1	15354.1	16772.5	16928.7	10363.1
60°	1300.2	1307.8	1403.1	1639.5	2428.7	5166.3	7583.6	8658.9	9673.0	9604.4	5498.0
62.5°	1021.8	1048.5	1121.0	1216.3	1441.2	2344.9	3393.4	3992.0	4056.8	3412.4	2085.6
65°	873.1	876.9	949.4	1029.5	1128.6	1364.9	1635.7	1666.2	1685.3	1624.2	1532.7
67.5°	720.7	728.2	785.4	876.9	968.4	1044.7	1121.0	1159.1	1246.8	1418.3	1395.5
70°	571.9	583.3	632.9	709.2	793.1	838.8	934.1	968.4	1048.5	1181.9	1235.3
72.5°	434.6	438.5	480.4	533.8	610.1	655.8	735.9	774.0	827.4	941.8	991.3
75°	312.7	324.1	354.6	381.3	392.7	423.2	499.5	541.4	617.6	667.2	671.0
77.5°	163.9	171.6	179.2	179.2	217.3	274.5	324.1	347.0	400.3	438.5	419.4
80°	64.8	68.6	87.7	118.2	152.5	198.2	232.6	244.1	289.8	312.7	324.1
82.5°	38.1	42.0	57.2	83.8	110.6	141.0	167.8	179.2	209.7	236.4	244.1
85°	19.1	22.9	34.3	53.4	72.4	87.7	83.8	80.1	80.1	76.3	80.1
87.5°	7.7	7.7	11.4	11.4	11.4	15.2	19.1	19.1	19.1	22.9	22.9
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°	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1	8918.1
2.5°	8929.6	8777.0	8636.0	8376.7	8094.5	8014.5	7686.6	7568.4	7484.5	7385.4	7354.9
5°	8975.3	8773.2	8319.5	7797.2	7381.5	6847.8	6497.0	6119.5	5845.0	5776.4	5757.3
7.5°	9070.6	8723.7	7942.1	7152.8	6302.5	5578.1	5025.2	4727.8	4464.8	4449.6	4422.8
10°	9177.4	8574.9	7530.2	6291.1	5204.4	4533.4	4201.7	4072.0	4007.3	3992.0	3984.3
12.5°	9265.0	8544.5	7068.9	5452.3	4426.7	4022.5	3923.3	3911.9	3938.6	3946.2	3961.4
15°	9303.2	8422.4	6512.2	4701.2	3942.4	3793.8	3835.6	3881.4	3900.5	3950.0	3911.9
17.5°	9375.6	8266.1	5825.9	4106.4	3671.7	3698.4	3770.9	3824.2	3854.7	3889.0	3839.5
20°	9413.7	8125.1	5181.6	3751.8	3576.4	3626.0	3725.1	3767.0	3805.2	3820.4	3763.2
22.5°	9379.4	7835.3	4613.5	3465.8	3484.9	3549.7	3637.4	3683.2	3660.3	3599.3	3564.9
25°	9287.9	7427.3	4022.5	3282.8	3355.3	3469.6	3538.3	3503.9	3462.0	3427.7	3416.2
27.5°	9284.1	6927.8	3595.4	3115.1	3244.7	3401.0	3378.1	3347.6	3366.7	3340.0	3309.5
30°	9303.2	6443.6	3244.7	3019.7	3164.6	3240.9	3267.5	3237.1	3260.0	3210.3	3225.7
32.5°	9204.1	5970.8	3015.9	2909.2	3069.3	3065.4	3153.2	3176.0	3122.6	3019.7	3035.0
35°	9246.0	5589.5	2821.5	2859.6	2962.5	2962.5	3031.1	3004.5	2863.4	2802.4	2817.7
37.5°	9535.8	5215.9	2726.1	2790.9	2859.6	2890.1	2867.2	2752.8	2718.5	2718.5	2726.1
40°	9810.3	4895.6	2668.9	2775.7	2764.3	2783.4	2615.6	2627.0	2627.0	2630.8	2611.7
42.5°	10054.3	4678.3	2623.2	2684.2	2703.2	2604.2	2501.2	2489.8	2516.4	2512.7	2497.3
45°	10142.0	4499.1	2558.4	2581.3	2596.5	2432.6	2383.0	2360.1	2390.6	2402.1	2417.3
47.5°	9806.5	4350.4	2485.9	2440.2	2409.7	2302.9	2238.1	2196.2	2234.3	2299.1	2314.3
50°	9375.6	4156.0	2371.5	2283.8	2219.1	2173.3	2127.6	2085.6	2112.3	2158.0	2146.6
52.5°	8738.9	3850.9	2226.6	2135.1	2024.6	2036.1	1994.1	1971.2	1986.4	1986.4	1975.0
55°	7831.5	3164.6	1982.7	1917.8	1826.3	1856.8	1864.4	1834.0	1803.4	1830.1	1807.2
57.5°	5345.6	2234.3	1769.1	1769.1	1677.6	1719.6	1715.7	1643.3	1570.9	1578.5	1563.3
60°	3092.2	1780.6	1631.9	1616.7	1521.3	1555.6	1563.3	1513.7	1403.1	1410.7	1395.5
62.5°	1757.7	1521.3	1426.0	1403.1	1384.0	1414.6	1414.6	1349.7	1254.4	1262.0	1246.8
65°	1494.6	1410.7	1273.4	1269.7	1262.0	1269.7	1239.1	1170.5	1086.7	1052.3	1056.1
67.5°	1357.4	1304.0	1170.5	1136.2	1113.3	1109.5	1052.3	987.5	949.4	918.9	915.1
70°	1189.6	1147.6	1048.5	1002.7	979.8	926.5	869.3	827.4	774.0	758.8	774.0
72.5°	941.8	938.0	899.8	850.3	800.7	758.8	709.2	652.0	602.4	591.0	564.3
75°	652.0	659.6	667.2	659.6	617.6	564.3	507.1	461.4	400.3	366.0	358.4
77.5°	427.1	438.5	449.9	434.6	408.0	358.4	320.3	263.1	217.3	190.7	186.8
80°	312.7	327.9	335.6	324.1	293.6	255.5	213.5	167.8	133.5	110.6	110.6
82.5°	240.2	255.5	263.1	244.1	213.5	183.0	152.5	118.2	91.5	72.4	68.6
85°	83.8	80.1	95.3	99.2	118.2	110.6	91.5	68.6	53.4	38.1	34.3
87.5°	22.9	22.9	26.7	26.7	22.9	19.1	19.1	19.1	15.2	11.4	11.4
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)