

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: P533257

Luminaire Tested: **GALN-SA8C-830-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533257
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-SA8C-830-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA 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: 26612 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

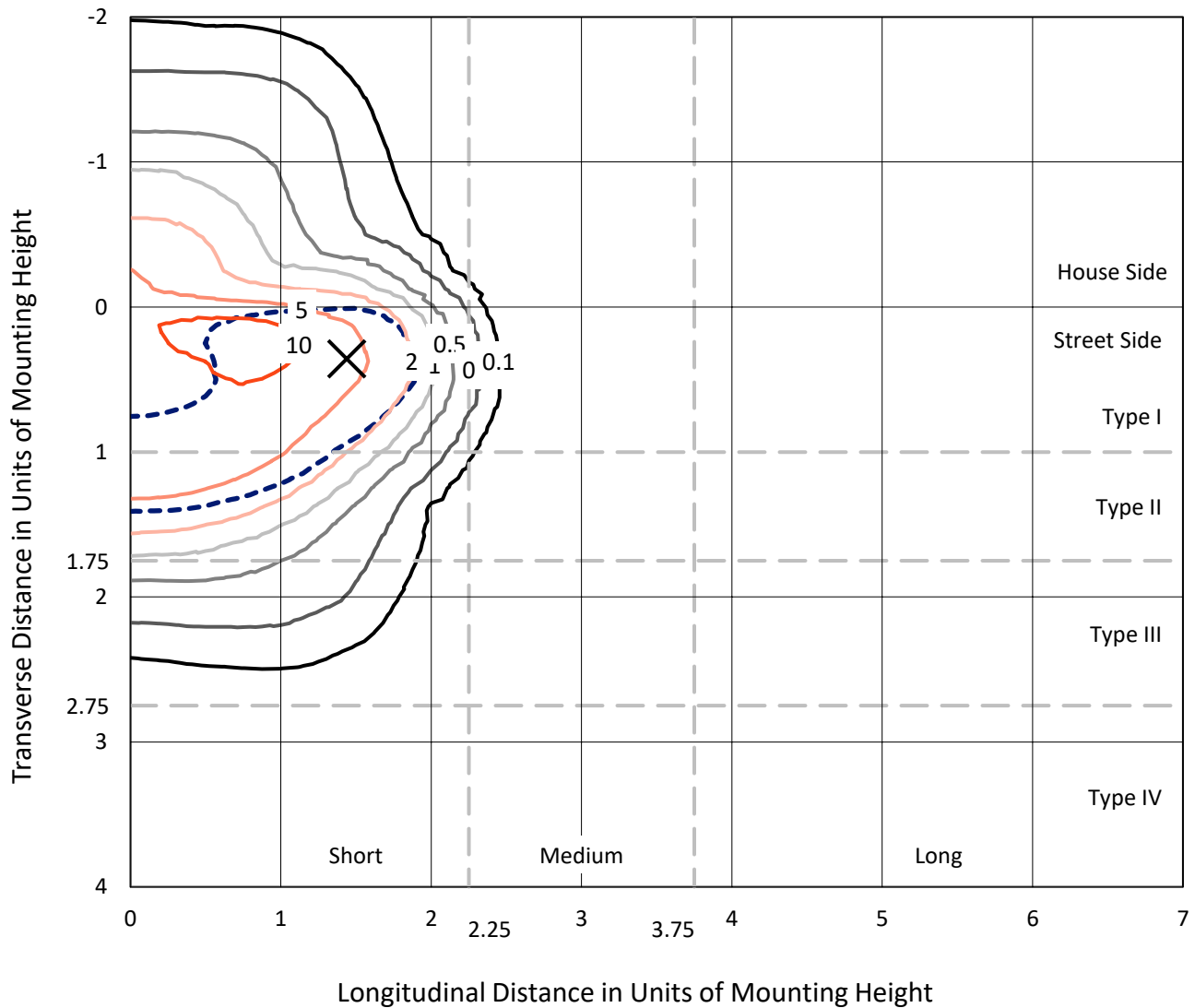
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

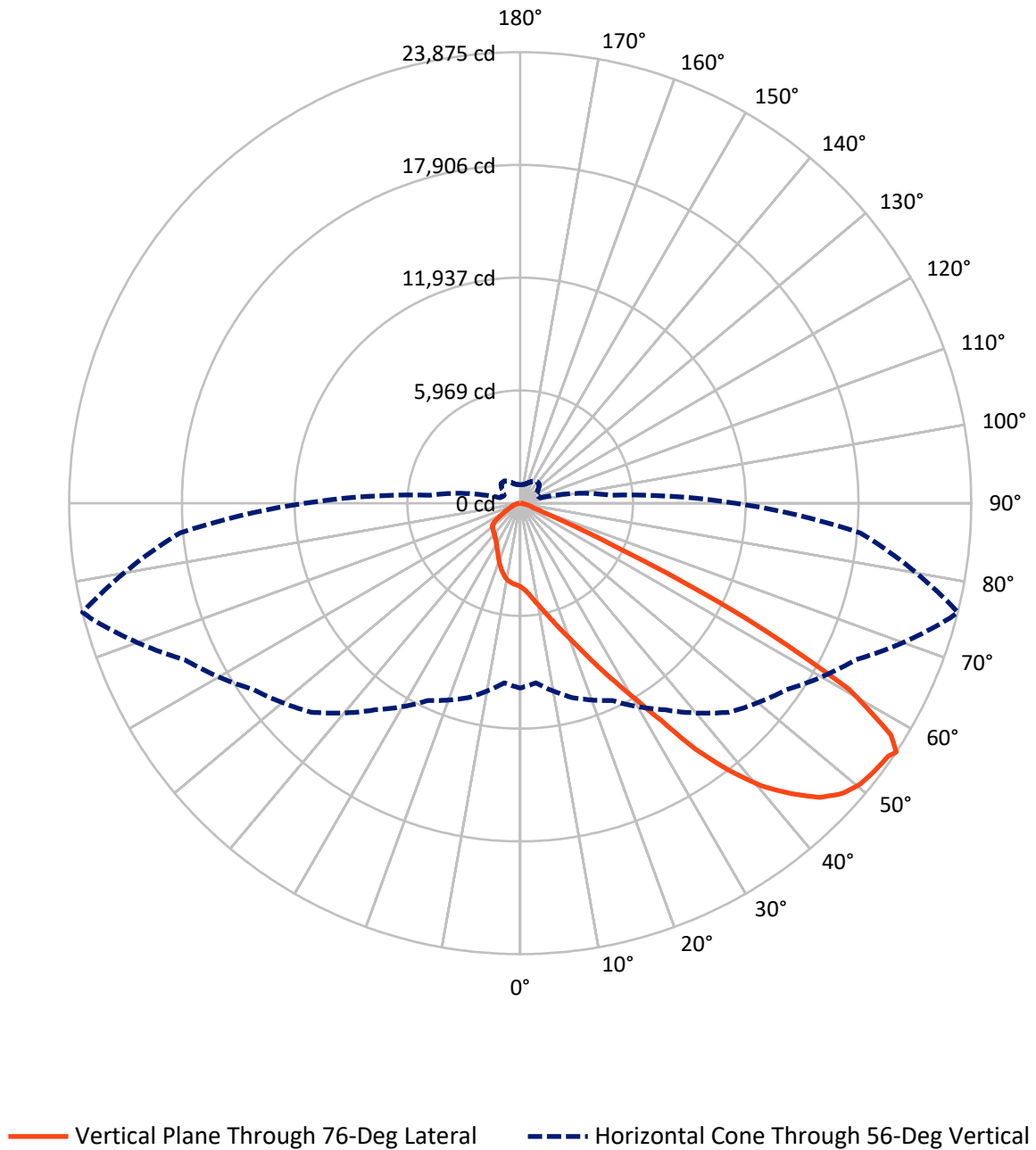
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4180.6	0.0	4180.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	22431.4	0.0	22431.4
	% Fixture	84.3	0.0	84.3
Total	Lumens	26612.0	0.0	26612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.2	1.7
10°-20°	1433.5	5.4
20°-30°	2599.4	9.8
30°-40°	4482.8	16.8
40°-50°	7282.4	27.4
50°-60°	7675.9	28.8
60°-70°	2345.3	8.8
70°-80°	300.7	1.1
80°-90°	45.7	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°	26612.0	100.0
0°-180°	26612.0	100.0

Coefficient of Utilization



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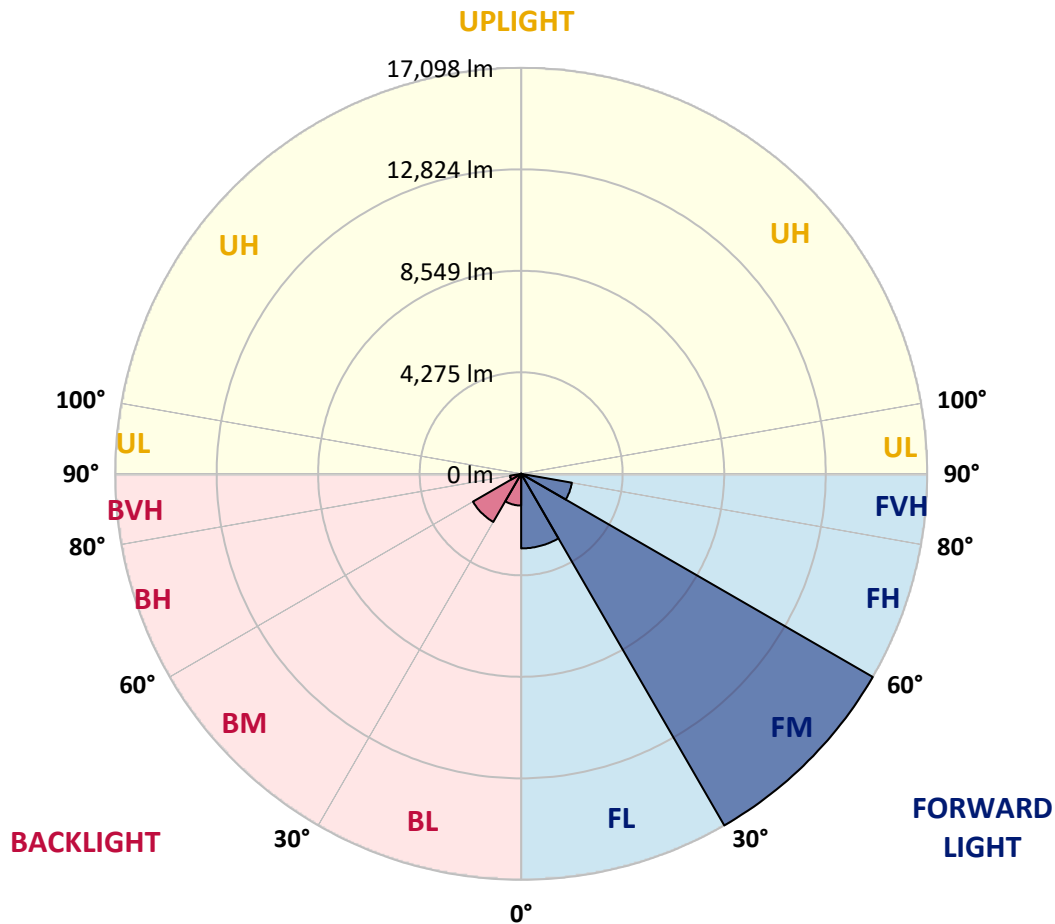
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3141.8	11.8			
FM	(30°-60°)	17098.2	64.2			
FH	(60°-80°)	2169.0	8.2			G2/5000
FVH	(80°-90°)	22.4	0.1			G1/100
BL	(0°-30°)	1337.4	5.0	B3/2500		
BM	(30°-60°)	2343.0	8.8	B2/2500		
BH	(60°-80°)	476.9	1.8	B1/500		G1/500
BVH	(80°-90°)	23.3	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6
2.5°	5101.7	4983.9	4988.8	4979.0	4964.3	4910.3	4748.5	4723.9	4616.0	4586.6	4488.5
5°	5714.8	5611.8	5670.7	5582.4	5499.0	5449.9	5185.0	5062.4	4890.7	4826.9	4689.6
7.5°	6097.5	6048.4	6028.8	6033.7	5955.2	5832.6	5714.8	5445.0	5214.5	5165.4	4876.0
10°	6283.9	6254.4	6283.9	6269.1	6303.5	6318.2	6112.2	5950.3	5611.8	5528.4	5077.1
12.5°	6328.0	6386.9	6411.4	6475.2	6558.6	6700.8	6686.1	6465.4	6014.1	5960.1	5386.2
15°	6435.9	6485.0	6460.5	6563.5	6720.4	6960.8	7088.4	7054.0	6568.4	6470.3	5744.3
17.5°	6534.0	6445.7	6529.1	6735.2	6892.1	7260.0	7569.1	7711.3	7171.7	7058.9	6072.9
20°	6666.5	6642.0	6627.2	6730.3	7009.9	7500.4	8113.6	8373.6	7848.7	7731.0	6543.8
22.5°	7068.7	7073.6	7063.8	6911.8	7112.9	7667.2	8589.4	9232.0	8658.1	8560.0	7078.5
25°	7598.5	7534.7	7485.7	7363.1	7338.5	7819.3	9070.1	10281.8	9629.4	9560.7	7657.4
27.5°	8157.7	8157.7	8010.6	7897.7	7740.8	8197.0	9511.6	11302.1	10801.8	10708.6	8162.6
30°	8766.0	8800.3	8780.7	8540.4	8442.3	8609.0	9962.9	12607.0	12145.9	12028.1	8996.6
32.5°	9663.7	9590.1	9673.5	9472.4	9183.0	9330.1	10674.2	13774.5	13892.2	13725.4	10090.5
35°	10850.8	10806.7	10752.7	10424.0	10080.7	10198.4	11679.8	15211.8	16084.9	16001.5	11194.2
37.5°	11915.3	11890.8	11846.6	11621.0	11223.6	11365.9	12822.8	16707.9	18223.7	17949.0	12754.1
40°	13033.7	13166.2	13023.9	12822.8	12459.8	12773.8	14166.9	17595.8	20024.0	19690.4	13946.2
42.5°	14549.5	14446.5	14510.3	14142.4	13946.2	14289.5	15515.9	18483.7	21422.0	21024.7	15211.8
45°	16163.4	16168.3	15996.6	15878.9	15368.7	15741.5	16344.9	18974.2	22535.6	22226.5	16168.3
47.5°	17198.5	17193.5	17380.0	17566.4	17041.5	16673.6	16909.0	19440.2	23109.5	22967.2	16516.6
50°	17036.6	17085.6	17326.0	18022.6	18297.3	17801.8	17438.8	19302.9	23369.5	23354.8	16815.8
52.5°	14819.3	14981.2	15383.4	16389.1	17772.4	18385.6	17993.1	19558.0	23497.0	23521.6	17262.2
55°	11282.5	11370.8	12136.0	13357.5	14888.0	16987.5	17772.4	19759.1	23595.1	23639.3	17801.8
56°	9786.3	9550.9	10654.6	11522.9	13352.6	15648.3	17213.2	19602.1	23536.3	23874.7	18071.6
57.5°	7387.6	7230.6	8123.4	9207.5	10968.6	13391.8	15476.6	18861.4	23138.9	23134.0	17684.1
60°	4493.4	4336.4	5023.2	5660.9	6646.9	8246.0	10458.4	15020.4	19562.9	19974.9	14319.0
62.5°	2673.5	2771.6	3448.5	3836.0	4154.9	4321.7	5410.7	8927.9	13053.4	13347.7	8883.7
65°	1780.7	1815.0	2325.2	2962.9	3105.1	2472.3	2202.5	3615.3	5660.9	5479.4	3664.4
67.5°	1098.8	1177.3	1559.9	2227.1	2467.4	1805.2	1044.9	1349.0	1559.9	1559.9	1059.6
70°	667.1	706.4	1040.0	1515.8	1692.4	1162.6	760.3	760.3	750.5	735.8	632.8
72.5°	318.9	343.4	529.8	780.0	794.7	613.2	588.7	642.6	627.9	623.0	524.9
75°	137.4	147.2	186.4	245.3	279.6	260.0	358.1	461.1	475.8	461.1	377.7
77.5°	44.1	49.1	68.7	88.3	93.2	112.8	152.1	191.3	220.7	206.0	186.4
80°	4.9	9.8	19.6	44.1	68.7	88.3	112.8	127.5	142.3	142.3	132.4
82.5°	4.9	4.9	19.6	39.2	63.8	83.4	107.9	122.6	142.3	147.2	137.4
85°	0.0	4.9	14.7	34.3	54.0	54.0	49.1	49.1	34.3	34.3	34.3
87.5°	0.0	0.0	4.9	4.9	4.9	9.8	9.8	9.8	9.8	9.8	9.8
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°	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6	4429.6
2.5°	4468.9	4459.0	4326.6	4243.2	4199.1	4110.8	4056.8	4017.6	3988.1	3953.8	3958.7
5°	4527.7	4493.4	4272.6	4120.6	3939.1	3841.0	3757.6	3688.9	3644.7	3634.9	3615.3
7.5°	4694.5	4513.0	4179.4	3904.7	3674.2	3576.1	3502.5	3458.3	3478.0	3433.8	3468.1
10°	4822.0	4552.2	4066.6	3669.3	3438.7	3365.1	3325.9	3360.2	3409.3	3389.7	3365.1
12.5°	4979.0	4591.5	3885.1	3443.6	3227.8	3173.8	3242.5	3306.3	3404.4	3443.6	3394.6
15°	5155.6	4635.6	3654.5	3183.6	3046.3	3090.4	3208.2	3321.0	3419.1	3468.1	3497.6
17.5°	5371.5	4620.9	3428.9	2977.6	2874.6	3002.1	3144.4	3247.4	3394.6	3468.1	3448.5
20°	5572.6	4571.9	3178.7	2771.6	2776.5	2894.2	3011.9	3178.7	3257.2	3355.3	3321.0
22.5°	5763.9	4483.6	2918.7	2629.3	2629.3	2810.8	2869.7	2977.6	3046.3	3095.3	3090.4
25°	6033.7	4316.8	2702.9	2492.0	2550.8	2668.6	2717.6	2751.9	2722.5	2761.8	2766.7
27.5°	6225.0	4145.1	2526.3	2369.3	2477.2	2565.5	2550.8	2531.2	2462.5	2408.6	2442.9
30°	6431.0	3944.0	2374.2	2285.9	2344.8	2423.3	2364.4	2305.6	2197.6	2109.3	2114.2
32.5°	6725.4	3850.8	2241.8	2187.8	2266.3	2276.1	2212.4	2124.1	2016.1	1932.7	1927.8
35°	7274.8	3791.9	2129.0	2124.1	2138.8	2143.7	2079.9	1972.0	1927.8	1859.2	1883.7
37.5°	7824.2	3762.5	2050.5	2030.8	2025.9	2030.8	1957.3	1854.3	1937.6	1932.7	1942.6
40°	8525.6	3894.9	1937.6	1913.1	1918.0	1918.0	1824.8	1795.4	1942.6	1957.3	1962.2
42.5°	9236.9	4061.7	1864.1	1785.6	1805.2	1805.2	1756.1	1721.8	1824.8	1726.7	1712.0
45°	9855.0	4307.0	1785.6	1658.0	1707.1	1731.6	1716.9	1658.0	1594.3	1427.5	1427.5
47.5°	10056.1	4522.8	1692.4	1535.4	1574.6	1682.6	1638.4	1515.8	1403.0	1265.6	1255.8
50°	10409.3	4758.3	1618.8	1393.1	1476.5	1609.0	1564.8	1442.2	1314.7	1216.5	1221.5
52.5°	10772.3	5028.1	1481.4	1226.4	1329.4	1550.1	1550.1	1412.8	1216.5	1147.9	1138.1
55°	11316.8	5018.3	1236.2	1005.6	1187.1	1461.8	1486.3	1265.6	1089.0	1035.0	1035.0
56°	11395.3	4792.6	1113.5	941.8	1123.3	1437.3	1442.2	1226.4	1040.0	981.1	981.1
57.5°	10806.7	4326.6	976.2	863.4	1044.9	1393.1	1398.0	1192.0	1000.7	917.3	907.5
60°	8314.7	2928.5	814.3	770.2	946.7	1255.8	1280.3	1084.1	878.1	814.3	809.4
62.5°	4694.5	1623.7	716.2	696.6	814.3	1069.4	1143.0	946.7	745.6	711.3	721.1
65°	2143.7	892.8	603.4	564.1	657.3	824.1	922.2	780.0	613.2	573.9	573.9
67.5°	784.9	608.3	515.1	446.4	461.1	534.7	598.5	505.3	407.2	348.3	363.0
70°	559.2	510.2	451.3	387.5	358.1	348.3	343.4	284.5	201.1	157.0	166.8
72.5°	451.3	421.9	377.7	328.7	279.6	235.5	201.1	147.2	93.2	63.8	58.9
75°	323.8	309.0	274.7	235.5	196.2	166.8	137.4	93.2	49.1	24.5	24.5
77.5°	166.8	166.8	161.9	147.2	122.6	98.1	78.5	54.0	29.4	9.8	9.8
80°	127.5	137.4	142.3	127.5	112.8	88.3	63.8	39.2	19.6	4.9	4.9
82.5°	122.6	142.3	152.1	132.4	112.8	83.4	63.8	39.2	19.6	4.9	4.9
85°	29.4	29.4	44.1	49.1	63.8	68.7	54.0	34.3	14.7	4.9	4.9
87.5°	9.8	9.8	9.8	9.8	9.8	9.8	4.9	4.9	4.9	4.9	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)