

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: P647977

Luminaire Tested: **GALN-SA6A-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15840.1 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

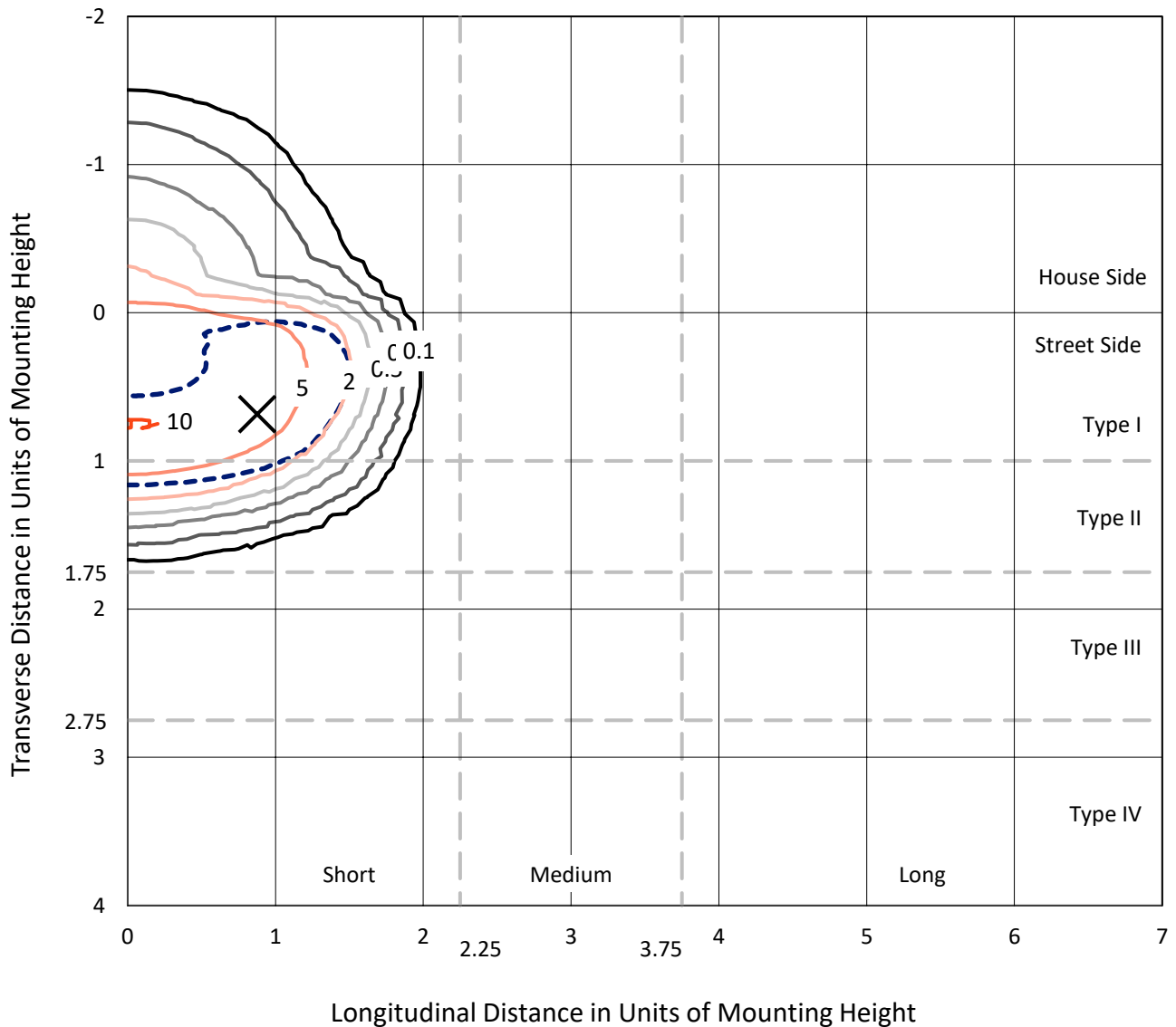
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

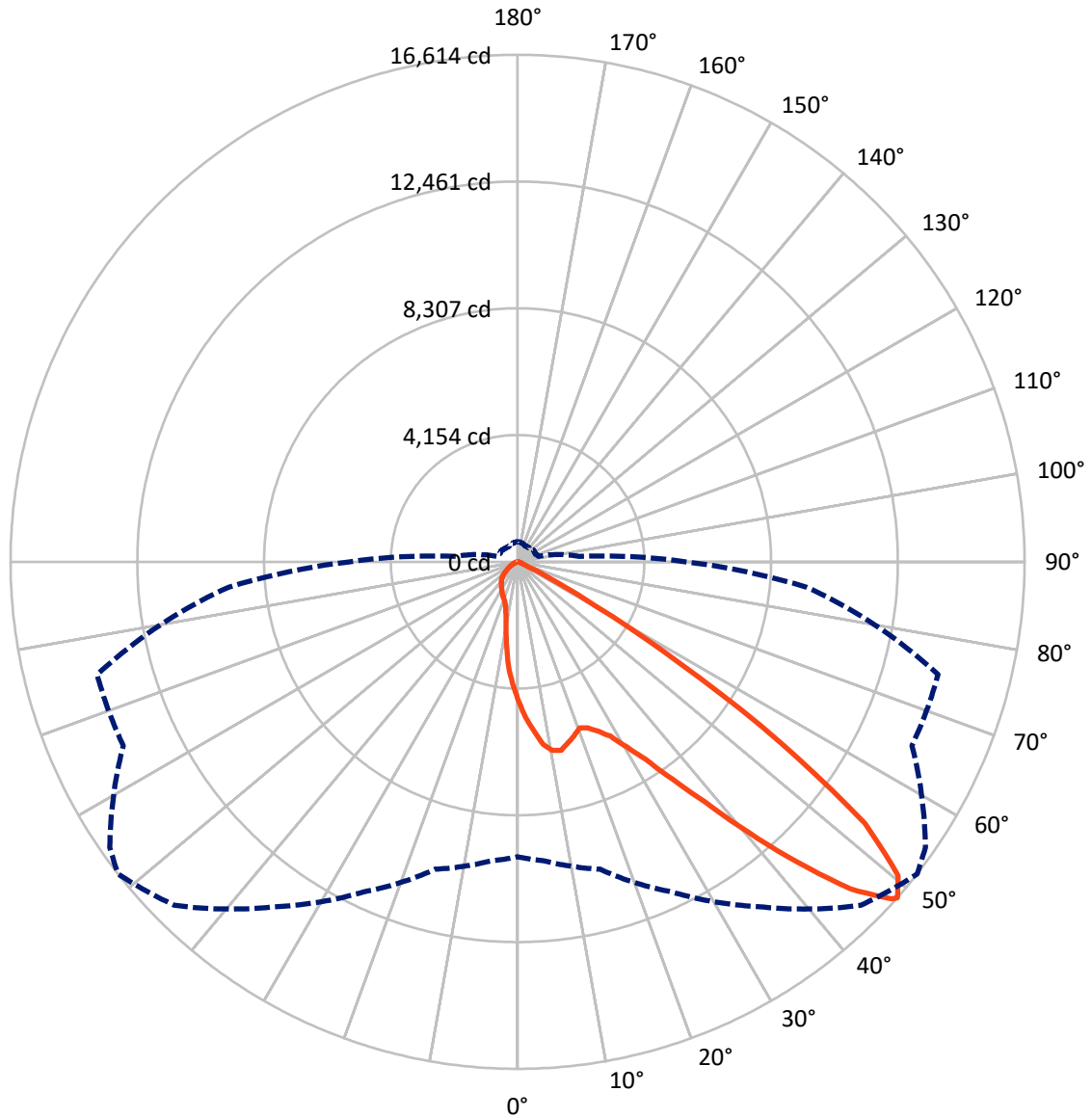
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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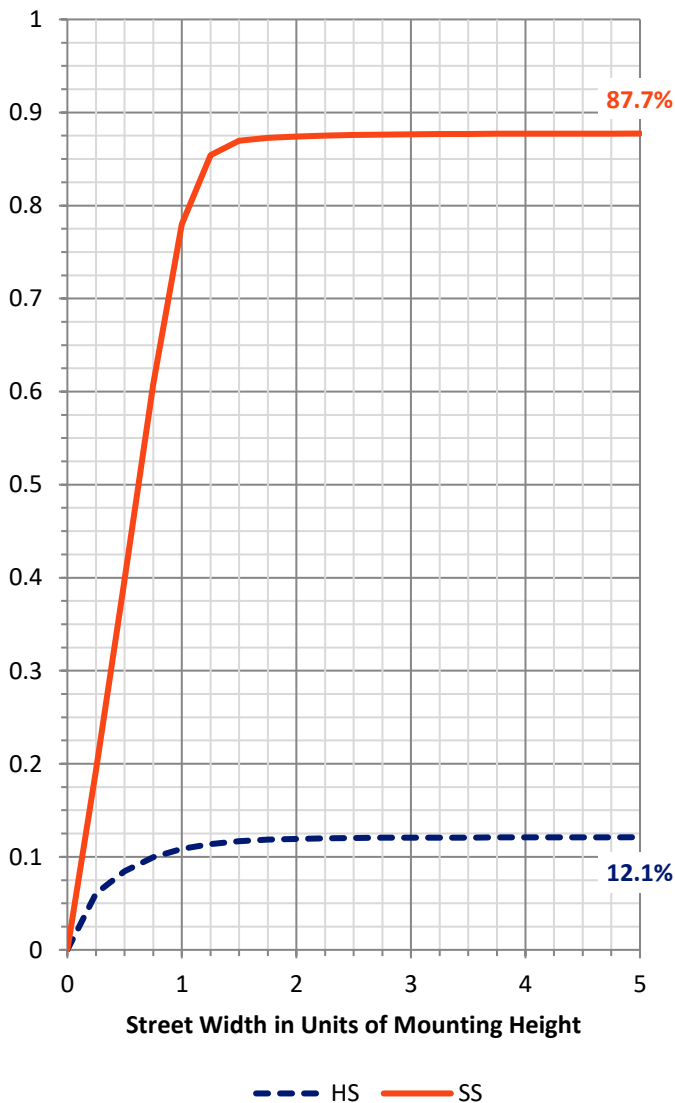
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1928.6	0.0	1928.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13911.4	0.0	13911.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	15840.1	0.0	15840.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	2.6
10°-20°	1094.2	6.9
20°-30°	1868.2	11.8
30°-40°	3440.3	21.7
40°-50°	5342.8	33.7
50°-60°	3215.4	20.3
60°-70°	371.9	2.3
70°-80°	72.0	0.5
80°-90°	16.6	0.1
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°	15840.1	100.0
0°-180°	15840.1	100.0

Coefficient of Utilization



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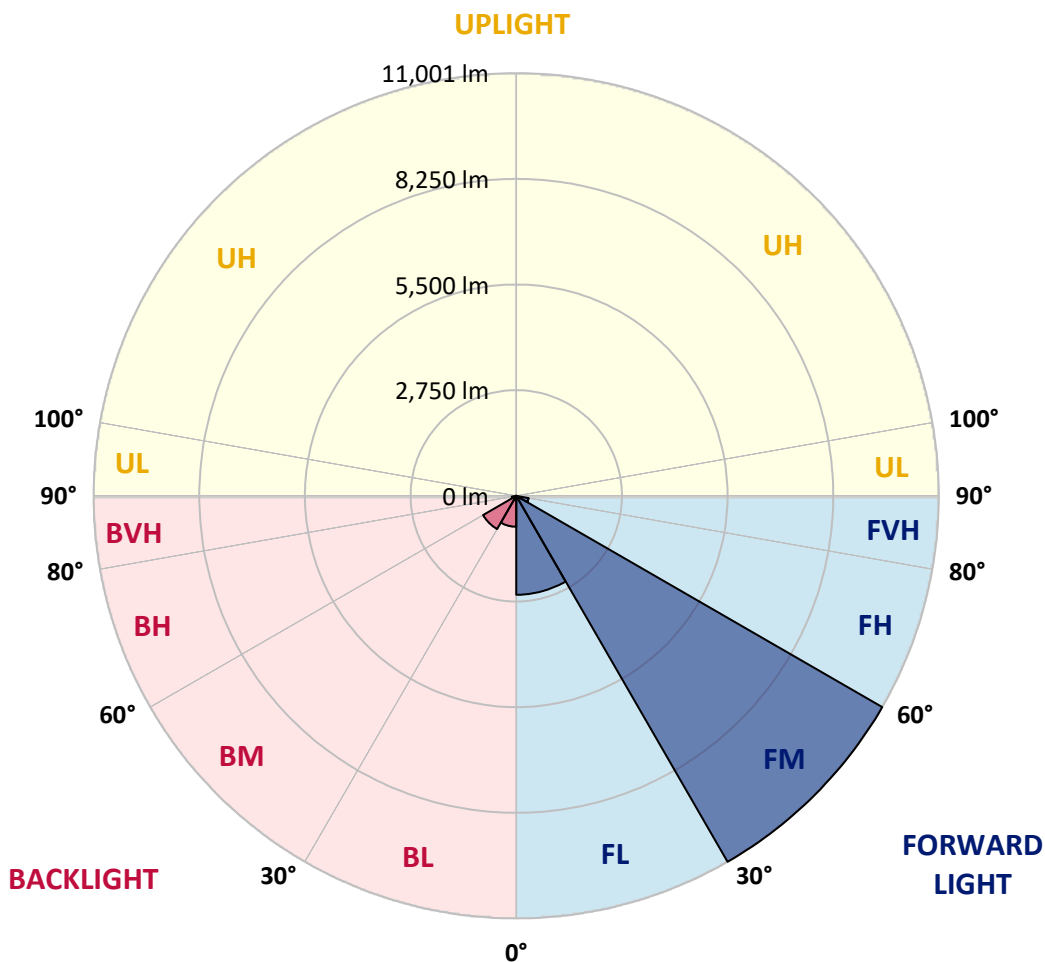
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2575.4	16.3			
FM (30°-60°)	11000.6	69.4			
FH (60°-80°)	327.5	2.1			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	805.7	5.1	B2/1000		
BM (30°-60°)	997.9	6.3	B1/1000		
BH (60°-80°)	116.4	0.7	B1/500		G1/500
BVH (80°-90°)	8.7	0.1			G0/10
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°	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4
2.5°	5544.2	5417.2	5428.7	5345.6	5297.1	5218.6	5112.4	5091.6	4976.1	4819.1	4659.8
5°	6043.0	6013.0	6052.2	5932.1	5936.7	5807.4	5558.0	5562.7	5297.1	5040.8	4793.7
7.5°	6075.3	6006.0	6045.2	6151.5	6213.8	6190.7	6049.8	5927.5	5675.8	5299.4	4939.2
10°	5440.3	5571.9	5613.5	5789.0	6038.3	6301.6	6285.4	6292.3	6082.2	5590.4	5063.9
12.5°	5059.3	4971.5	5112.4	5218.6	5595.0	6105.3	6338.5	6389.3	6405.5	5872.1	5188.5
15°	4886.1	4886.1	4909.2	4939.2	5211.6	5682.7	6158.4	6306.2	6654.9	6241.5	5384.8
17.5°	4994.6	4990.0	5022.3	4960.0	5061.5	5424.1	5992.1	6160.7	6934.2	6604.1	5539.6
20°	5324.8	5341.0	5320.2	5140.1	5147.1	5419.5	5807.4	6072.9	7123.7	6918.1	5745.1
22.5°	5784.3	5793.6	5675.8	5479.5	5421.8	5555.7	5913.6	6116.9	7276.0	7294.5	5807.4
25°	6315.4	6278.5	6255.4	5978.3	5802.8	5918.2	6153.8	6271.5	7370.7	7617.7	5985.3
27.5°	7052.0	6978.2	6837.3	6590.2	6460.9	6297.0	6465.5	6659.5	7640.8	8070.4	6179.2
30°	8139.6	8075.0	7800.2	7481.6	7142.1	6980.4	7033.5	7139.8	8128.1	8594.5	6435.5
32.5°	9776.8	9640.5	9243.4	8636.1	8174.3	7728.6	7714.7	7827.9	8564.5	9319.6	6740.3
35°	11580.2	11538.7	10954.4	10328.6	9435.1	8746.9	8758.5	8818.5	9400.4	10270.9	7139.8
37.5°	12778.6	13007.3	12635.5	11963.5	11213.0	10229.3	9980.0	10000.8	10548.0	11397.8	7860.2
40°	13704.6	13510.7	13554.5	13397.4	12884.9	12215.2	11663.3	11554.8	11875.8	12644.7	8576.0
42.5°	13300.5	13309.7	13579.9	13951.7	14078.7	14030.2	13466.7	13261.3	13011.9	13665.3	9257.3
45°	12159.8	12397.6	12748.6	13732.3	14595.9	15406.4	15295.6	14953.8	13796.9	14473.5	9649.8
47.5°	10340.2	10331.0	10905.9	12185.2	14104.1	16002.2	16505.6	16265.4	14353.5	14383.5	9569.0
48°	9668.2	9834.5	10428.0	11933.5	13792.3	15914.4	16614.1	16311.6	14258.7	14263.4	9499.7
50°	7146.7	7116.7	7855.6	9702.9	12319.1	14953.8	16156.9	16392.4	14256.5	13656.1	9014.8
52.5°	3775.4	3904.7	4442.7	6100.7	8710.0	12238.3	14251.9	14619.0	13753.1	12663.1	8317.4
55°	1604.8	1450.1	1863.5	2754.8	4899.9	8176.6	10455.6	11273.1	11628.7	11206.1	7276.0
57.5°	572.7	625.8	720.4	1036.8	2059.8	4475.1	6234.6	6869.7	8056.5	8222.8	4957.6
60°	367.1	374.0	404.1	475.7	773.5	1724.9	2957.9	3463.7	4001.7	4131.0	2313.8
62.5°	284.0	286.3	300.2	311.7	367.1	669.6	1110.7	1316.2	1367.0	1175.4	607.3
65°	237.9	240.1	244.8	244.8	260.9	314.1	387.9	427.2	415.6	411.0	344.1
67.5°	182.4	187.1	196.3	196.3	205.5	191.7	214.8	228.6	258.6	314.1	293.2
70°	143.1	145.5	152.4	157.0	157.0	138.5	154.7	168.6	189.3	233.3	230.9
72.5°	110.9	115.5	120.1	120.1	113.1	94.7	110.9	122.4	136.2	161.6	157.0
75°	85.4	85.4	87.8	71.6	55.4	48.5	66.9	80.8	101.6	106.3	87.8
77.5°	23.1	25.4	23.1	20.7	23.1	34.6	43.8	50.8	64.7	64.7	57.7
80°	0.0	2.3	6.9	13.9	23.1	32.3	39.2	43.8	50.8	55.4	53.1
82.5°	0.0	2.3	6.9	13.9	20.7	25.4	34.6	37.0	41.6	48.5	48.5
85°	0.0	2.3	4.6	9.2	13.9	16.1	16.1	13.9	13.9	11.5	9.2
87.5°	0.0	0.0	2.3	4.6	4.6	6.9	6.9	6.9	6.9	6.9	6.9
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°	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4	4574.4
2.5°	4597.5	4525.9	4417.4	4246.4	4082.5	3976.3	3874.7	3761.5	3699.2	3694.6	3660.0
5°	4652.9	4491.2	4232.6	3939.4	3625.3	3355.2	3082.7	2904.9	2745.5	2657.8	2641.6
7.5°	4682.9	4472.7	4054.8	3563.0	3027.2	2586.2	2281.4	2057.4	1969.6	1905.0	1902.7
10°	4745.2	4440.4	3789.3	3064.2	2401.5	1955.9	1745.7	1644.1	1595.6	1577.1	1549.4
12.5°	4791.4	4380.4	3516.8	2551.6	1898.1	1621.0	1528.7	1505.6	1507.8	1517.1	1505.6
15°	4856.1	4327.2	3149.6	2094.4	1593.3	1459.4	1459.4	1464.0	1496.3	1500.9	1498.6
17.5°	4851.5	4223.3	2771.0	1724.9	1408.5	1390.1	1397.0	1440.9	1461.7	1468.6	1452.5
20°	4906.9	4126.4	2380.7	1473.2	1304.6	1332.4	1378.5	1390.1	1415.5	1420.1	1401.6
22.5°	4890.7	3883.9	2018.2	1274.6	1226.2	1279.3	1325.5	1339.3	1332.4	1318.5	1316.2
25°	4860.7	3676.1	1685.6	1143.0	1168.4	1226.2	1270.0	1244.6	1230.7	1233.1	1235.3
27.5°	4807.5	3412.9	1410.9	1050.6	1089.9	1175.4	1173.0	1163.8	1177.6	1166.1	1177.6
30°	4798.3	3149.6	1184.6	967.6	1032.2	1094.6	1099.2	1115.3	1131.4	1110.7	1131.4
32.5°	4812.2	2861.0	1022.9	916.7	997.5	999.8	1050.6	1066.8	1055.2	1009.1	1013.7
35°	4918.4	2639.3	905.1	889.0	942.1	944.5	992.9	972.2	921.4	893.6	909.8
37.5°	5142.4	2454.6	849.8	863.6	868.2	898.3	900.5	859.0	863.6	861.3	870.5
40°	5428.7	2313.8	810.5	840.6	835.9	856.7	773.5	796.6	817.5	824.3	829.0
42.5°	5625.0	2212.1	785.1	803.6	794.4	757.4	711.2	734.3	750.4	775.9	780.5
45°	5712.8	2131.3	755.0	738.9	738.9	672.0	653.5	658.1	695.1	722.8	718.2
47.5°	5569.6	2052.8	702.0	653.5	669.6	614.2	593.4	593.4	632.7	667.4	660.4
48°	5514.2	2020.5	704.3	635.0	646.5	605.0	584.2	579.6	623.4	655.8	655.8
50°	5239.4	1900.4	644.3	584.2	561.1	556.5	542.6	547.2	575.0	605.0	605.0
52.5°	4703.6	1641.8	545.0	501.0	459.5	487.3	494.2	484.9	498.8	526.5	524.1
55°	3925.5	1260.8	436.4	415.6	383.3	413.3	427.2	415.6	401.8	422.6	422.6
57.5°	2514.6	678.9	348.7	353.3	321.0	351.0	362.5	334.8	309.4	325.6	323.3
60°	1133.8	406.4	286.3	279.4	258.6	293.2	311.7	279.4	244.8	256.3	267.9
62.5°	424.9	288.6	217.0	212.4	207.8	240.1	249.4	224.0	189.3	196.3	198.6
65°	311.7	254.0	173.2	157.0	166.2	189.3	184.7	159.3	136.2	136.2	140.9
67.5°	265.5	221.7	140.9	122.4	122.4	124.7	115.5	101.6	94.7	99.3	103.9
70°	207.8	175.5	110.9	94.7	85.4	76.2	66.9	64.7	57.7	64.7	62.3
72.5°	133.9	117.8	85.4	71.6	64.7	53.1	43.8	41.6	34.6	32.3	32.3
75°	71.6	71.6	66.9	57.7	50.8	41.6	34.6	27.7	18.5	13.9	13.9
77.5°	50.8	55.4	60.1	55.4	46.2	34.6	27.7	18.5	9.2	4.6	4.6
80°	48.5	55.4	60.1	53.1	46.2	34.6	25.4	13.9	6.9	2.3	2.3
82.5°	43.8	50.8	55.4	48.5	41.6	30.0	23.1	13.9	6.9	2.3	2.3
85°	9.2	11.5	13.9	13.9	16.1	20.7	16.1	11.5	4.6	2.3	2.3
87.5°	6.9	6.9	6.9	6.9	6.9	6.9	4.6	4.6	2.3	2.3	2.3
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)