

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: P651136

Luminaire Tested: **GALN-SA9C-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46202.9 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

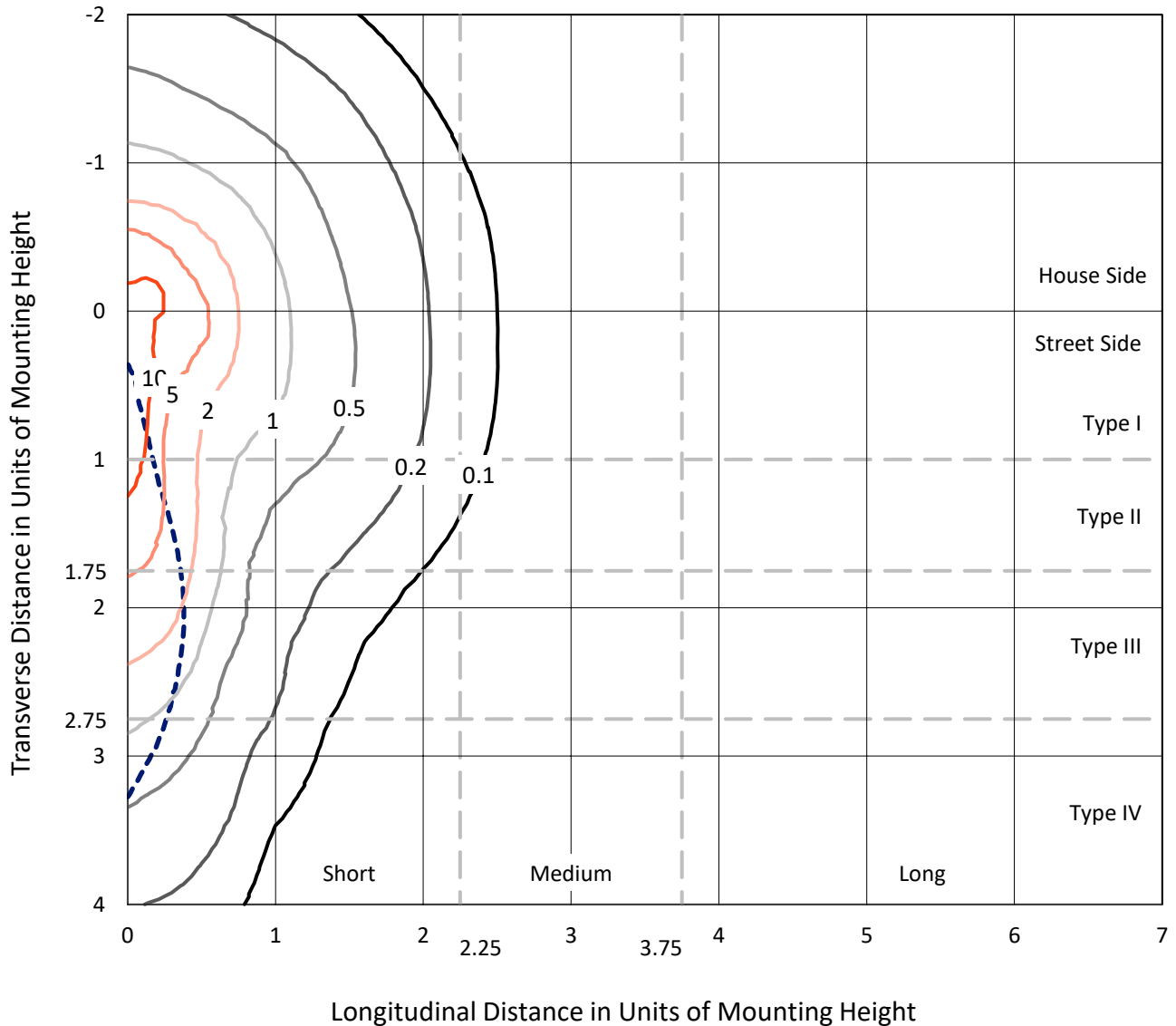
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

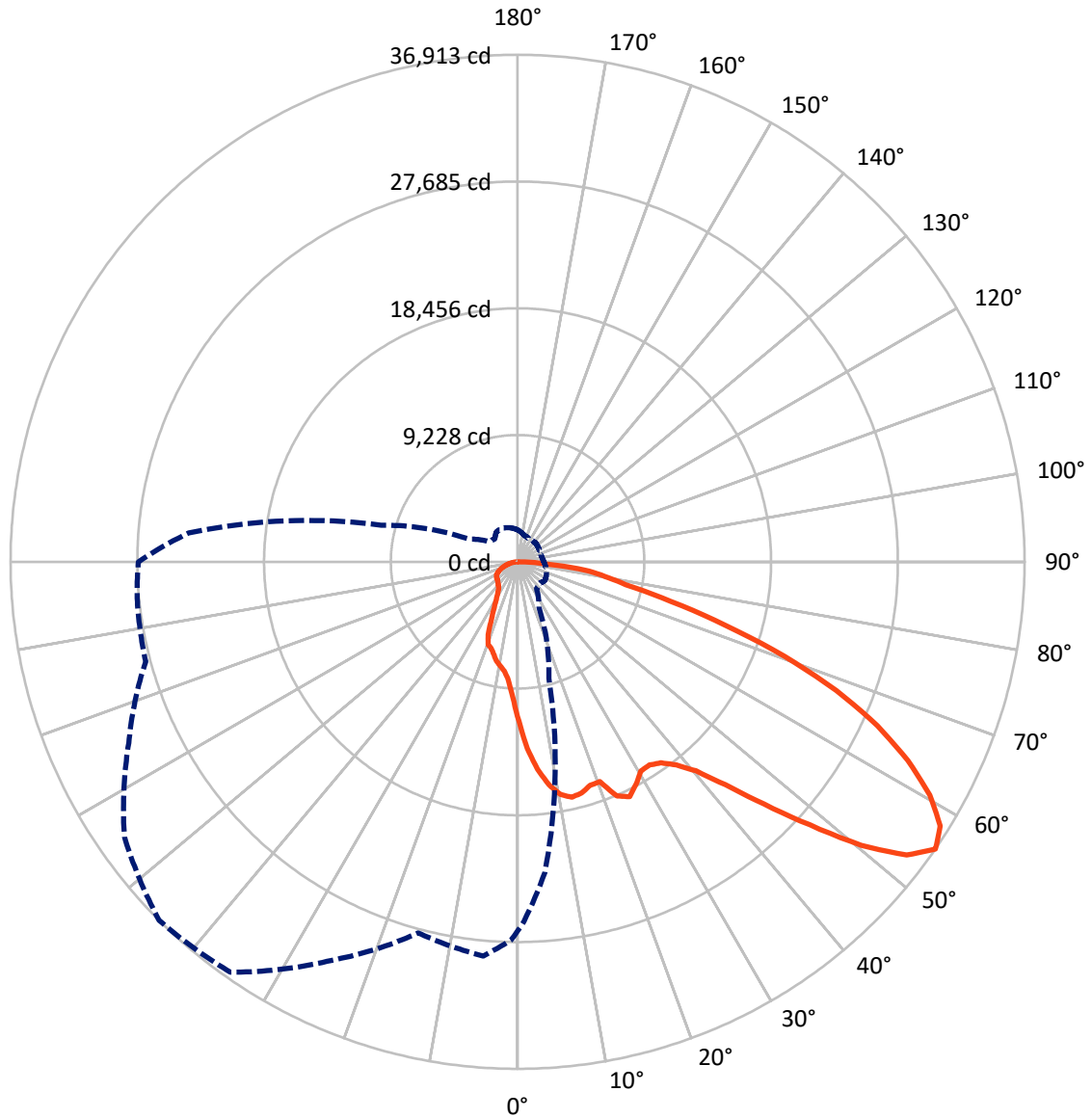
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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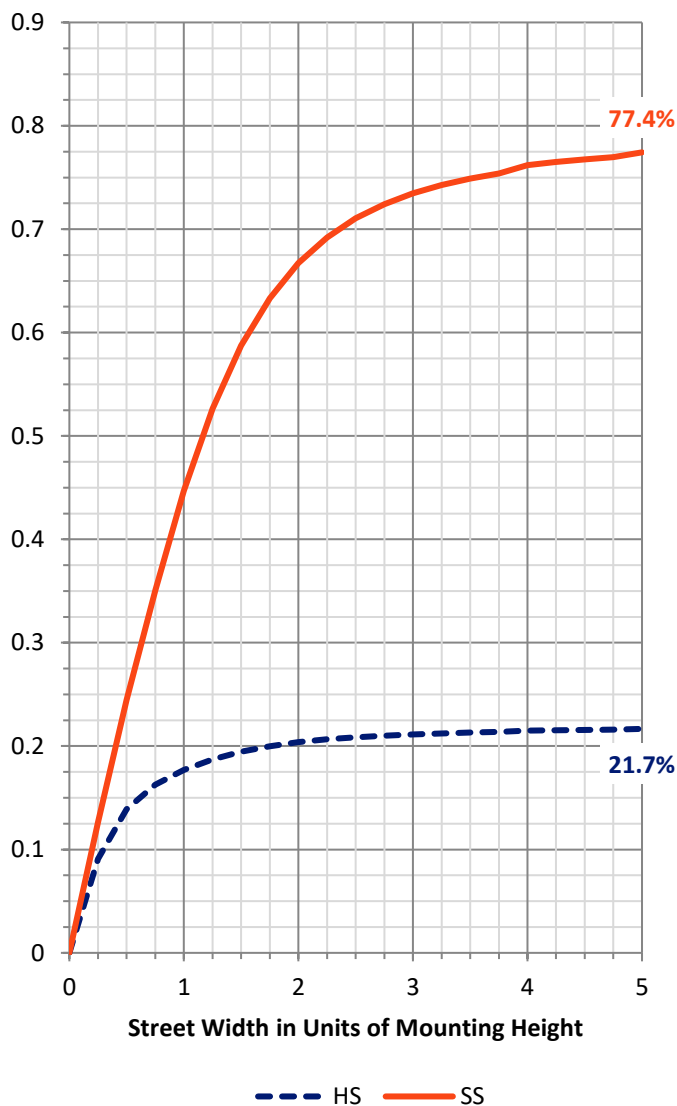
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10106.7	0.0	10106.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	36096.2	0.0	36096.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	46202.9	0.0	46202.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.7	2.1
10°-20°	2607.2	5.6
20°-30°	4504.0	9.7
30°-40°	5234.4	11.3
40°-50°	7303.0	15.8
50°-60°	9909.4	21.4
60°-70°	9427.6	20.4
70°-80°	5093.1	11.0
80°-90°	1141.4	2.5
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°	46202.9	100.0
0°-180°	46202.9	100.0

Coefficient of Utilization



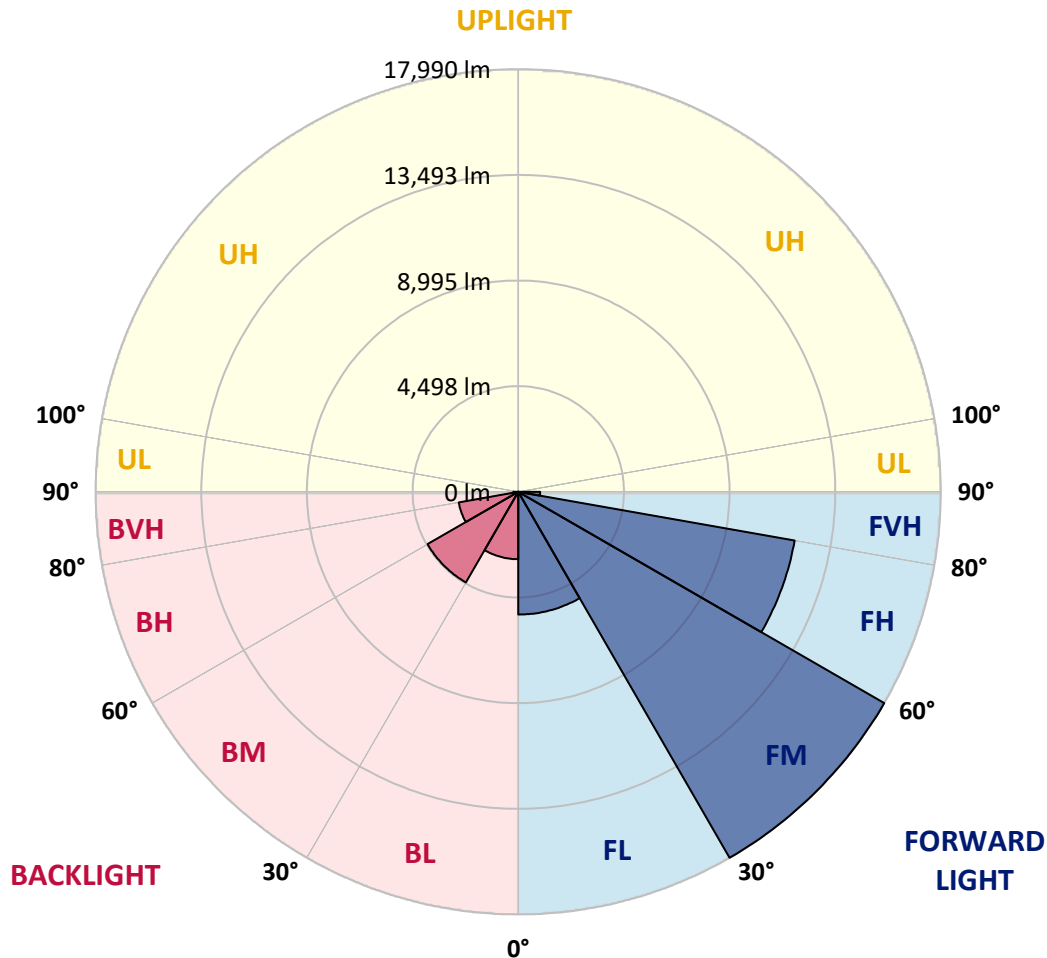
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5225.6	11.3			
FM (30°-60°)	17990.4	38.9			
FH (60°-80°)	11947.3	25.9			G4/12000
FVH (80°-90°)	932.8	2.0			G5
BL (0°-30°)	2868.3	6.2	B4/5000		
BM (30°-60°)	4456.4	9.6	B3/5000		
BH (60°-80°)	2573.4	5.6	B4/5000		G4/5000
BVH (80°-90°)	208.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1
2.5°	9872.9	10007.1	10296.6	10516.0	10784.3	11110.5	11494.5	11881.6	12299.2	12430.3	12613.1
5°	8169.0	8504.3	8644.6	9043.9	9440.1	10034.5	10668.5	11403.1	12207.8	12594.9	12966.8
7.5°	6980.2	7160.1	7306.4	7599.0	8074.5	8796.9	9592.4	10510.0	11650.0	12213.8	12759.5
10°	6340.1	6358.4	6538.3	6901.0	7315.5	7952.6	8705.4	9732.7	11003.8	11689.6	12329.7
12.5°	5916.4	5837.2	6032.2	6410.3	6879.6	7467.9	8159.9	9138.3	10537.4	11241.6	12015.8
15°	5544.5	5419.6	5565.9	5953.0	6416.3	7108.2	7852.0	8888.4	10354.6	11174.5	12034.0
17.5°	5553.7	5209.2	5261.0	5587.3	6047.5	6751.6	7653.9	8879.2	10631.9	11576.8	12594.9
20°	6239.5	5687.9	5453.1	5514.1	5959.1	6727.2	7745.4	9306.0	11543.3	12921.0	14009.2
22.5°	6913.2	6580.9	6203.0	6078.0	6321.8	7126.5	8327.5	10314.9	13524.5	15600.4	17566.4
25°	6678.5	6962.0	6867.4	6690.7	6745.5	7413.1	8723.8	11144.0	15063.9	17401.8	19249.0
27.5°	5343.4	5858.5	5962.2	5959.1	5980.4	6529.1	7845.9	10586.2	15255.9	17746.3	19511.1
30°	3755.3	3801.1	3855.9	3962.5	4060.1	4550.9	6139.0	9293.8	15170.5	17901.7	19669.6
32.5°	2709.8	2770.8	2847.0	2993.3	3224.9	3849.8	5370.8	8882.3	15621.7	18544.9	20133.0
35°	2478.2	2548.2	2621.4	2789.0	3008.5	3587.6	5066.0	8711.6	16362.4	19587.3	20965.1
37.5°	2405.0	2484.2	2548.2	2670.2	2847.0	3398.6	4788.7	8595.8	17121.4	20690.8	22080.7
40°	2353.2	2444.6	2496.4	2594.0	2715.9	3224.9	4541.7	8504.3	17855.9	21699.7	22976.9
42.5°	2307.5	2401.9	2469.0	2539.1	2639.6	3069.5	4322.2	8412.9	18493.1	22678.2	23869.9
45°	2252.5	2371.5	2456.8	2511.6	2600.0	2938.4	4154.6	8339.7	19218.5	23546.8	24772.2
47.5°	2206.9	2337.9	2444.6	2508.6	2542.2	2847.0	4020.5	8440.3	20090.2	24455.2	25610.5
50°	2209.9	2334.9	2469.0	2569.6	2481.2	2770.8	3938.2	8839.6	21224.1	25534.3	26271.9
52.5°	2307.5	2459.8	2566.6	2591.0	2395.8	2679.3	3895.5	9537.6	22565.4	26488.3	26939.4
55°	2417.2	2575.6	2691.5	2676.2	2350.1	2563.5	3886.3	10281.4	24034.5	27600.9	27808.2
57.5°	2377.5	2609.2	2786.0	2706.8	2353.2	2450.7	3846.7	10881.9	25263.0	28433.0	28667.8
58°	2365.3	2597.0	2798.2	2700.6	2344.0	2417.2	3837.6	10933.7	25433.7	28490.9	28789.6
60°	2246.5	2490.4	2789.0	2655.0	2292.2	2325.7	3737.0	11101.3	25387.9	28192.3	28862.8
62.5°	2030.1	2231.3	2578.8	2432.4	2133.7	2203.8	3511.4	10894.1	24150.4	26753.5	27792.9
65°	1786.2	1935.6	2167.3	2139.8	1908.1	2078.9	3203.6	10074.1	21672.2	24418.6	25512.9
67.5°	1603.3	1725.2	1871.6	1832.0	1716.1	1911.2	2871.3	8687.2	18892.4	21614.4	22992.1
70°	1417.4	1511.9	1585.0	1557.6	1521.0	1746.6	2575.6	7050.4	16228.3	18950.3	20285.3
72.5°	1228.4	1316.8	1377.7	1338.1	1316.8	1572.8	2334.9	5471.4	12817.4	15633.9	17350.0
75°	1027.2	1115.6	1158.3	1112.6	1100.4	1386.9	1978.2	4087.5	9616.8	12052.4	13533.7
77.5°	795.6	890.0	944.9	929.6	935.8	1140.0	1597.2	2798.2	6876.6	8214.7	9775.4
80°	557.8	661.4	698.0	682.8	725.4	868.8	1127.8	1777.0	4742.9	5331.2	6431.5
82.5°	344.5	441.9	448.1	463.3	493.8	643.2	850.4	1082.1	2978.1	3078.6	3877.3
85°	173.8	210.3	225.6	249.9	277.4	393.3	484.7	670.6	1917.3	1450.9	2167.3
87.5°	57.9	61.0	73.2	91.4	112.8	161.6	207.3	274.3	475.5	262.1	670.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1	11595.1
2.5°	12982.0	13241.1	13430.1	13603.8	13436.2	13420.9	13256.3	12991.2	12881.4	12881.4
5°	13747.1	14353.7	14844.4	15158.4	15024.3	14701.2	14167.7	13488.0	13122.2	13058.2
7.5°	13957.4	15155.3	16066.7	16389.8	16164.3	15451.0	14429.9	13283.8	12759.5	12643.7
10°	13829.4	15387.0	16725.1	17237.2	16923.3	15844.2	14451.2	13046.0	12399.8	12265.7
12.5°	13695.3	15417.5	16847.1	17587.7	17383.6	16161.2	14606.7	12890.6	12143.8	11951.7
15°	13792.8	15429.7	16697.7	17462.8	17593.8	16542.2	14862.7	13003.4	12092.0	11887.7
17.5°	14408.5	15661.4	16484.4	17103.1	17563.4	17060.4	15591.2	13542.9	12555.3	12302.3
20°	15694.8	16216.1	16606.2	17084.8	17825.5	18118.1	17081.7	15024.3	13856.8	13634.3
22.5°	19419.7	19325.2	18526.6	18517.4	19590.3	20763.9	20693.8	18035.8	16280.1	16097.2
25°	20815.8	20376.8	19221.6	18941.1	19413.6	21224.1	20962.0	18651.5	17029.9	16584.9
27.5°	20270.1	19181.9	18422.9	18358.9	18203.4	19913.5	20544.5	18901.5	17292.1	16859.3
30°	20236.6	18636.3	17551.2	17679.2	17828.5	19462.3	20776.1	19684.9	17962.7	17499.4
32.5°	20318.9	18712.5	17615.2	17639.6	18084.6	19529.4	21032.1	20538.3	18843.6	18380.2
35°	20651.1	19145.4	18023.6	17965.7	18660.7	19968.4	21468.0	21879.5	20047.6	19520.3
37.5°	21187.6	20008.0	18770.4	18755.2	19764.1	20760.8	22010.6	23232.9	21245.5	20678.6
40°	21977.1	21016.9	20099.4	20017.1	21263.8	22050.3	22714.7	24674.7	22638.5	21910.0
42.5°	22931.1	22227.0	21852.1	22178.3	23376.2	23498.1	23812.1	26006.7	23824.3	22976.9
45°	23815.1	23781.5	24302.8	25168.4	25866.5	25135.0	24958.1	26899.8	24744.7	23824.3
47.5°	24866.7	25775.1	27347.9	28616.0	29347.5	27040.0	25936.6	27482.0	25415.4	24568.0
50°	25933.6	28161.7	30673.4	32441.3	32596.7	29109.7	26610.2	28030.7	26025.0	25144.0
52.5°	27055.2	30066.8	33410.7	35465.1	35163.3	30911.1	27262.5	28402.5	26652.9	25878.7
55°	28030.7	31234.2	34940.8	36912.9	36471.0	32008.5	27966.6	28804.9	27549.1	26896.8
57.5°	28576.3	31331.8	34559.8	36282.0	35803.4	31795.1	28289.7	29103.6	28122.1	27610.0
58°	28655.6	31200.8	34221.5	35916.2	35428.5	31615.3	28286.7	29091.5	28158.7	27643.6
60°	28585.4	30350.3	32962.6	34471.4	33959.3	30487.4	28170.9	28862.8	27695.4	27259.5
62.5°	27936.2	28875.0	30789.3	31886.6	31740.3	28725.6	27695.4	28000.2	26284.1	25863.4
65°	27082.7	26863.2	28006.3	28783.6	28893.3	27405.8	27222.9	26134.7	24473.5	23879.1
67.5°	26046.4	24583.2	24580.2	25022.2	25205.0	25375.7	26238.4	24107.7	21864.3	21236.3
70°	24287.6	21068.7	20099.4	20620.6	20468.3	21910.0	24479.6	21260.7	18718.6	17984.0
72.5°	21062.6	16719.0	15167.5	15838.1	15454.0	17182.4	21419.3	17496.3	15478.4	14576.2
75°	17072.6	12506.5	10906.3	11522.0	11284.2	13033.8	17822.5	12707.7	11101.3	10756.9
77.5°	13256.3	9062.1	8132.5	8047.1	8223.9	9699.2	13073.4	8580.5	7318.6	7083.9
80°	8516.5	6486.5	6541.3	6431.5	6523.0	6114.6	7937.4	5474.5	4956.3	4767.3
82.5°	5605.5	4520.4	5389.1	4974.6	4724.7	4111.9	5206.2	3584.6	3042.1	2938.4
85°	3819.3	3328.6	3029.9	2316.6	2728.1	3167.0	3904.7	1929.5	1530.2	1386.9
87.5°	1725.2	1158.3	850.4	524.3	829.1	957.1	1896.0	225.6	173.8	179.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)