

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: P652129

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29244.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

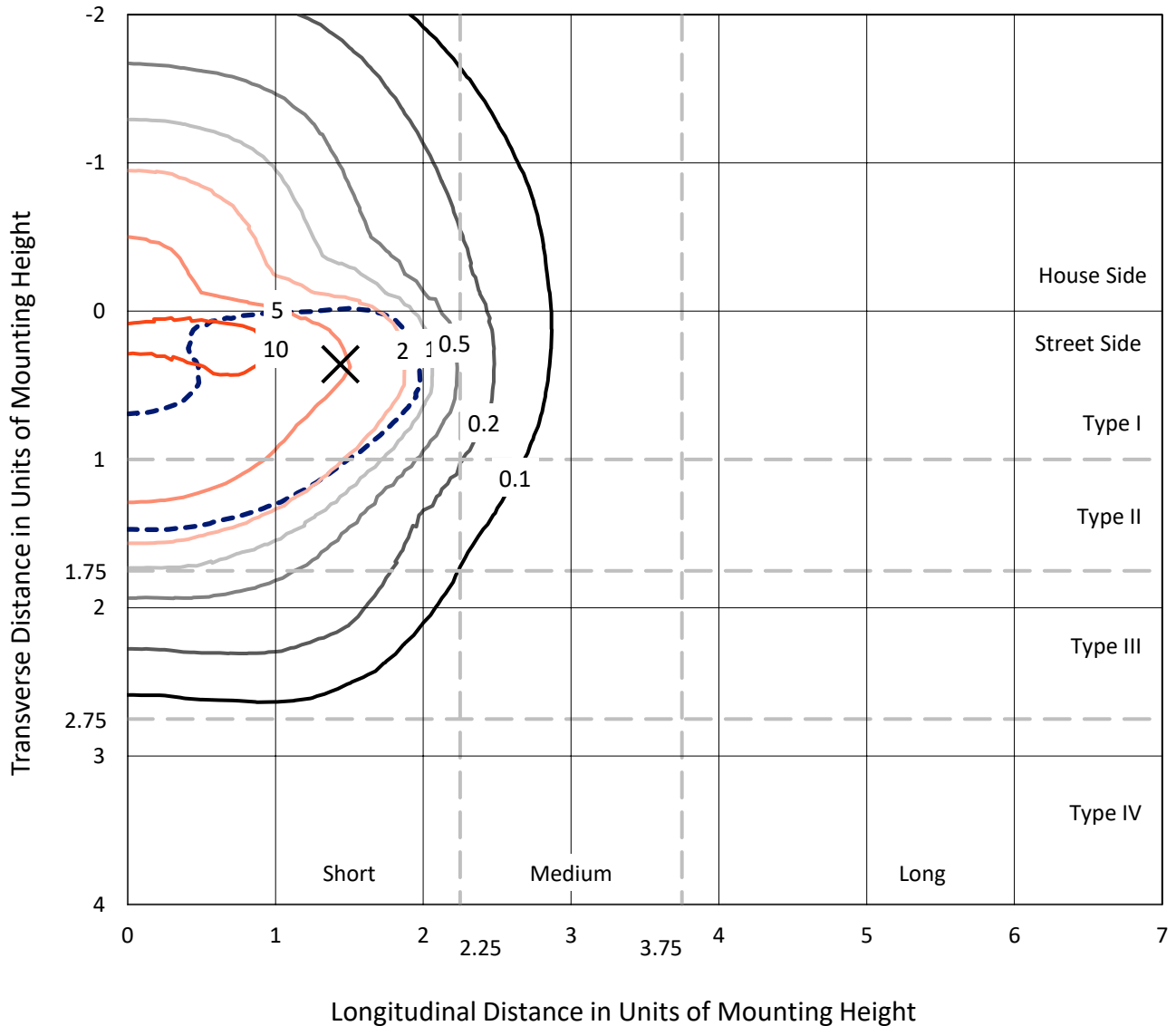
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

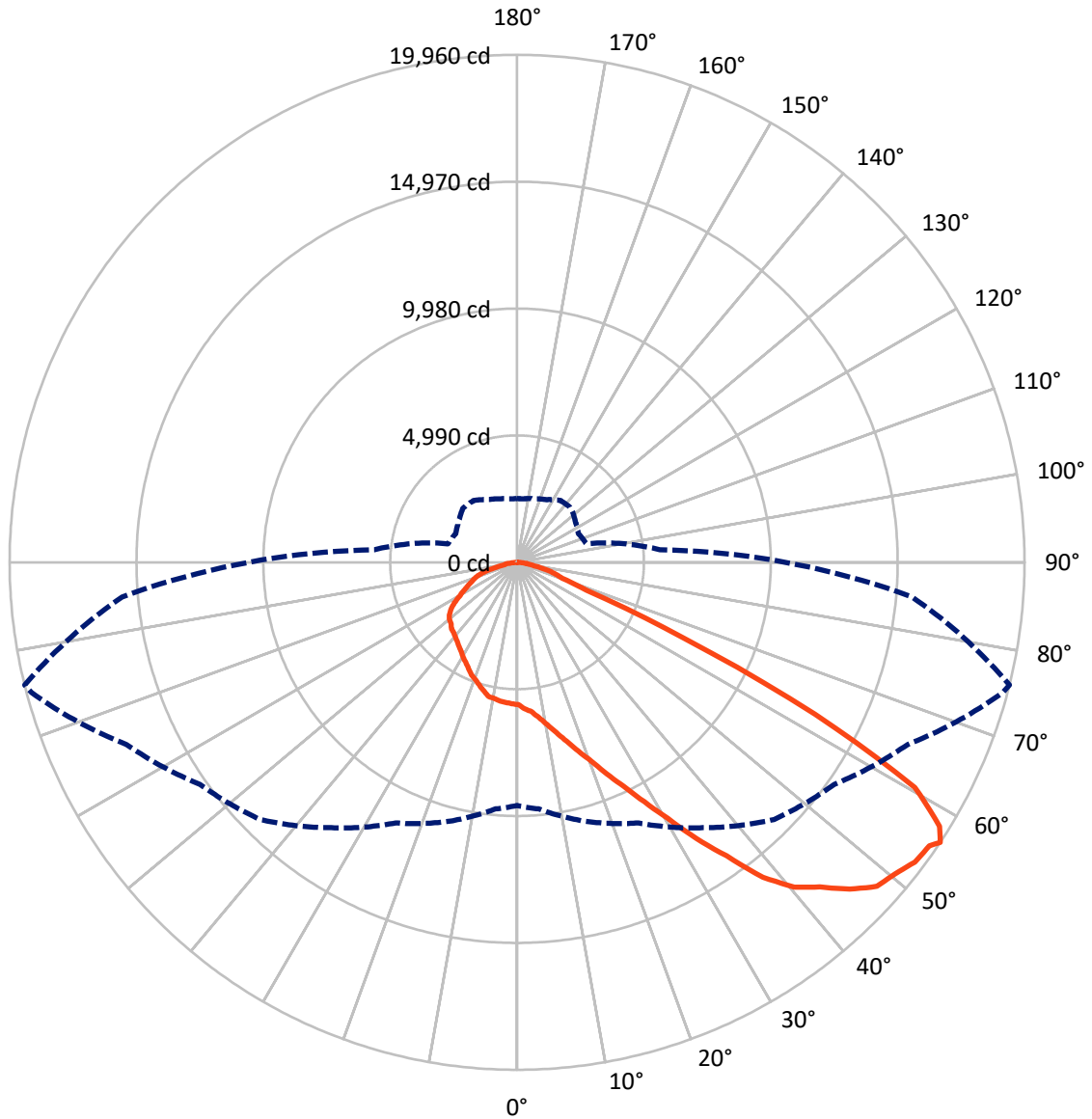
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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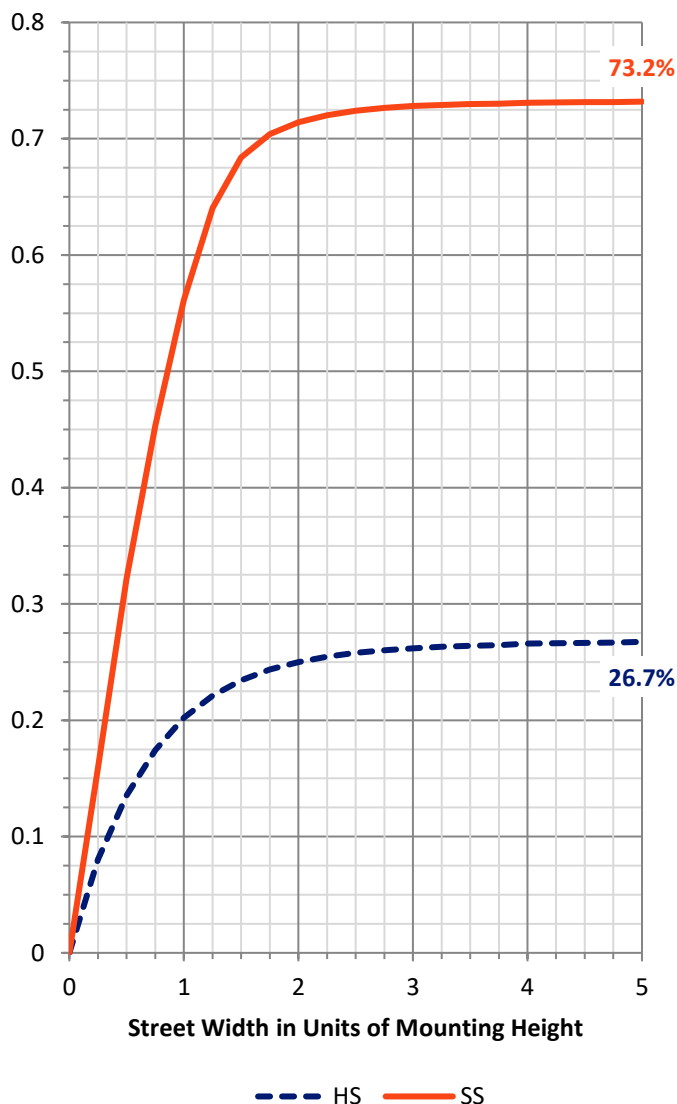
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7863.1	0.0	7863.1
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	21381.8	0.0	21381.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	29244.9	0.0	29244.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	554.9	1.9
10°-20°	1743.2	6.0
20°-30°	3048.6	10.4
30°-40°	4773.2	16.3
40°-50°	6943.7	23.7
50°-60°	7631.5	26.1
60°-70°	3406.4	11.6
70°-80°	983.9	3.4
80°-90°	159.6	0.5
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°	29244.9	100.0
0°-180°	29244.9	100.0

Coefficient of Utilization



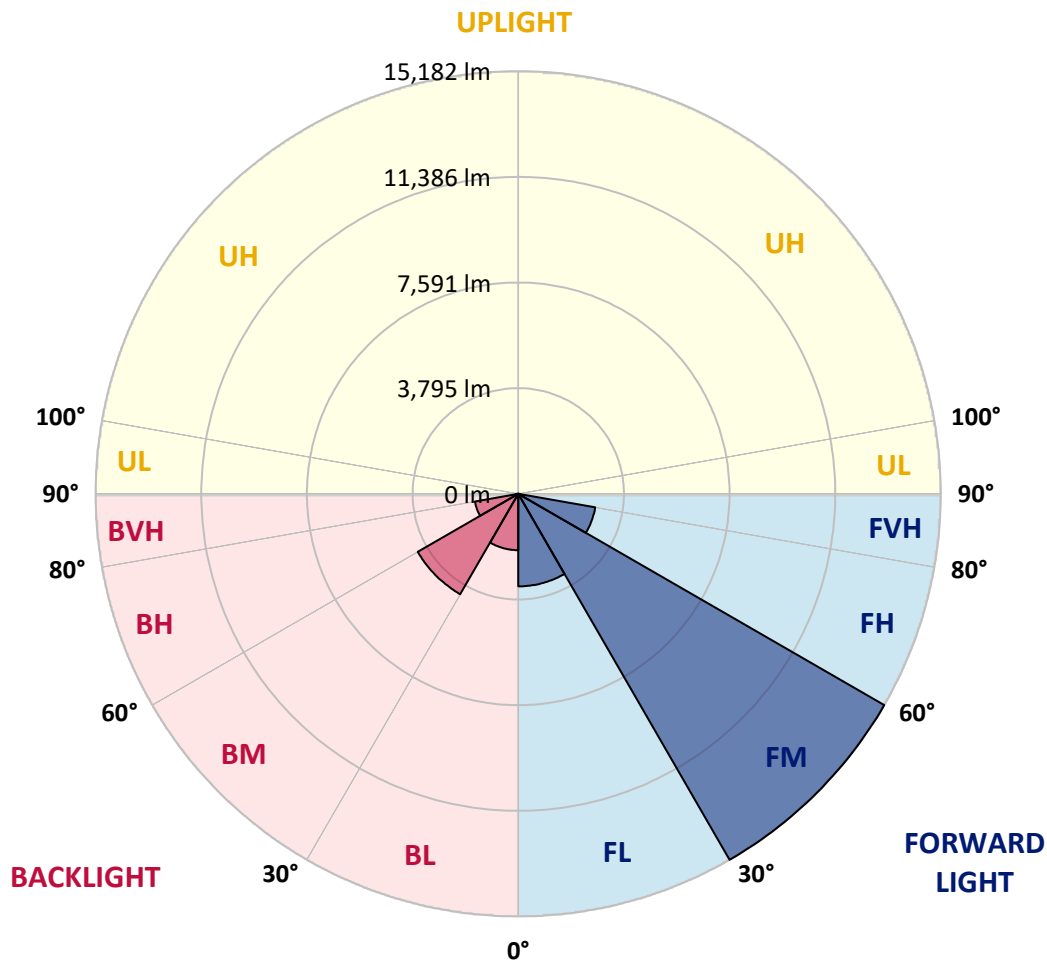
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3323.4	11.4			
FM (30°-60°)	15181.6	51.9			
FH (60°-80°)	2808.2	9.6			G2/5000
FVH (80°-90°)	68.7	0.2			G1/100
BL (0°-30°)	2023.3	6.9	B3/2500		
BM (30°-60°)	4166.8	14.2	B3/5000		
BH (60°-80°)	1582.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	90.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7
2.5°	6164.3	6065.7	6058.1	6031.7	6046.8	5978.5	5906.5	5811.7	5713.2	5773.8	5629.7
5°	6596.5	6463.8	6516.9	6425.9	6437.3	6346.3	6198.4	6088.5	5967.1	5895.2	5792.8
7.5°	6748.1	6759.5	6797.4	6782.2	6706.5	6706.5	6607.8	6414.5	6202.2	6160.5	5989.9
10°	6952.9	6956.7	6915.0	6926.3	7032.4	6983.2	6895.9	6812.6	6539.6	6490.3	6187.1
12.5°	7024.9	6956.7	7024.9	7085.5	7210.6	7278.9	7259.9	7199.3	6907.4	6873.2	6429.7
15°	7036.2	6994.5	7051.4	7187.9	7297.9	7586.0	7730.1	7688.3	7301.6	7305.4	6702.6
17.5°	6983.2	7040.0	7062.8	7180.3	7434.4	7703.5	8120.5	8177.4	7858.9	7809.6	7047.7
20°	7055.2	7013.5	7043.8	7150.0	7487.4	7908.2	8454.2	8829.4	8382.1	8347.9	7404.0
22.5°	7331.9	7275.1	7267.5	7335.8	7578.4	8014.4	8806.7	9481.5	9019.0	9038.0	7847.5
25°	7548.1	7578.4	7551.8	7548.1	7699.7	8173.6	9273.0	10258.7	9883.3	9773.4	8370.7
27.5°	7919.6	7991.6	7938.5	8010.5	7976.5	8412.4	9606.6	11119.3	10815.9	10668.1	8844.6
30°	8435.1	8473.1	8423.8	8423.8	8321.4	8746.1	9909.9	12017.7	11892.7	11691.8	9401.9
32.5°	9113.7	9170.6	9072.0	9015.2	9000.0	9242.7	10455.8	12904.9	13117.2	12946.5	10141.1
35°	10012.3	9978.1	9860.6	9807.6	9602.8	10004.7	11267.1	13924.7	14481.9	14178.7	11035.9
37.5°	10804.6	10751.5	10743.9	10448.2	10497.5	10827.4	11957.1	14698.1	15805.0	15717.9	11979.8
40°	11543.8	11593.1	11672.7	11506.0	11430.1	11794.1	12760.8	15289.5	16832.4	16798.3	12707.7
42.5°	12336.2	12290.7	12431.0	12290.7	12177.0	12692.5	13632.8	15698.9	17734.7	17454.2	13469.7
45°	13484.9	13340.9	13390.1	13401.5	13318.1	13507.6	13992.9	15994.6	18367.8	18337.5	14027.0
47.5°	14444.0	14447.8	14364.4	14299.9	14046.0	14235.5	14394.7	16180.3	19095.7	19046.4	14243.1
50°	14800.4	14751.1	14993.8	15134.0	15149.2	14762.5	14709.4	16282.7	19478.6	19262.5	14459.2
52.5°	13519.0	13564.5	13947.4	14781.4	15262.9	15304.6	15077.1	16495.0	19634.1	19588.6	14633.6
55°	10880.4	11100.3	11729.6	12692.5	13833.7	15088.5	15475.2	16714.9	19717.4	19679.6	15407.0
56°	9564.9	9735.5	10554.4	11308.8	12741.8	14303.7	15225.0	16949.9	19781.9	19960.0	15588.9
57.5°	7699.7	7896.8	8484.4	9341.2	11032.1	12810.1	14535.0	16661.8	19531.6	19599.9	15721.7
60°	4814.6	4833.6	5538.7	6103.6	7294.1	9030.4	11092.7	14497.1	18075.9	17977.3	14121.8
62.5°	3158.0	3161.7	3802.5	4265.0	4807.1	5205.2	6528.3	9614.2	13337.0	13162.7	10054.0
65°	2217.8	2267.1	2763.7	3381.7	3601.5	3393.0	3351.3	5068.7	7449.5	7199.3	5402.3
67.5°	1622.6	1626.4	2066.2	2729.5	3048.0	2581.7	2096.4	2475.6	2949.5	2941.9	2502.1
70°	1072.9	1118.4	1455.8	2039.6	2403.6	2073.7	1713.5	1770.5	1876.6	1876.6	1861.4
72.5°	625.5	667.2	890.9	1292.8	1349.6	1296.6	1357.2	1516.4	1584.7	1580.9	1561.9
75°	356.3	375.3	424.6	538.3	671.0	792.3	997.1	1148.7	1216.9	1258.6	1209.4
77.5°	208.5	219.9	250.2	307.0	348.8	428.4	542.1	648.2	739.2	727.9	735.5
80°	109.9	109.9	140.3	182.0	242.6	303.3	360.1	420.8	470.1	481.5	492.8
82.5°	64.4	68.2	91.0	132.7	174.4	216.1	276.8	318.5	364.0	367.8	375.3
85°	34.1	37.9	56.9	87.2	117.5	132.7	136.5	128.9	140.3	132.7	151.6
87.5°	11.4	11.4	18.9	15.1	15.1	18.9	22.7	22.7	30.4	30.4	30.4
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°	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7	5595.7
2.5°	5626.0	5626.0	5561.5	5440.2	5421.3	5372.0	5326.5	5322.7	5288.5	5258.3	5243.0
5°	5732.1	5614.6	5519.8	5409.9	5281.0	5220.3	5152.1	5076.3	5045.9	5076.3	5072.5
7.5°	5853.4	5754.9	5470.5	5265.8	5118.0	5057.3	4981.5	4901.9	4909.4	4909.4	4856.4
10°	5970.9	5838.3	5383.3	5121.8	4905.6	4860.1	4818.5	4848.8	4886.7	4894.3	4860.1
12.5°	6168.1	5868.6	5341.6	4977.7	4841.2	4742.7	4769.2	4852.6	4932.2	4909.4	4936.0
15°	6315.9	5895.2	5152.1	4829.9	4659.2	4704.7	4799.5	4856.4	4989.1	4973.9	5000.4
17.5°	6460.0	5910.3	4966.4	4632.7	4560.7	4685.8	4757.8	4920.9	4962.6	5053.5	5087.6
20°	6755.8	5940.7	4776.8	4511.4	4488.7	4632.7	4757.8	4833.6	4924.6	5004.2	5004.2
22.5°	6907.4	5925.4	4651.7	4352.2	4424.2	4515.2	4628.9	4757.8	4757.8	4833.6	4837.4
25°	7096.9	5864.8	4454.5	4276.3	4329.4	4416.6	4545.5	4500.0	4549.3	4549.3	4609.9
27.5°	7313.0	5735.9	4283.9	4139.9	4246.0	4340.8	4359.7	4329.4	4272.5	4265.0	4242.3
30°	7487.4	5576.7	4158.8	4094.4	4181.5	4234.6	4174.0	4109.5	4011.0	4003.4	3950.3
32.5°	7726.3	5379.5	4003.4	3980.6	4079.2	4083.0	4064.0	3965.5	3821.4	3760.8	3700.1
35°	8128.1	5265.8	3885.8	3920.0	3950.3	3938.9	3904.8	3798.6	3654.6	3628.1	3605.3
37.5°	8423.8	5182.4	3764.6	3806.3	3832.8	3847.9	3745.6	3628.1	3631.9	3578.8	3563.7
40°	8757.4	5129.3	3666.0	3684.9	3688.7	3738.0	3612.9	3556.0	3582.6	3548.4	3571.2
42.5°	9185.8	5144.5	3563.7	3548.4	3620.5	3601.5	3540.9	3465.1	3480.2	3377.9	3393.0
45°	9413.2	5246.8	3502.9	3434.7	3514.4	3510.6	3430.9	3358.9	3268.0	3070.7	3078.4
47.5°	9564.9	5273.4	3358.9	3313.4	3396.8	3446.1	3355.1	3188.3	3059.4	2919.1	2885.1
50°	9720.4	5322.7	3290.7	3195.9	3230.0	3347.5	3233.8	3074.6	2949.5	2824.3	2843.3
52.5°	9856.9	5417.5	3158.0	3017.7	3078.4	3207.2	3146.6	2953.3	2816.8	2714.4	2684.1
55°	10463.4	5629.7	2934.3	2752.3	2896.4	3059.4	3025.2	2790.3	2642.4	2589.3	2581.7
56°	10558.2	5637.3	2816.8	2661.3	2794.1	3010.1	2968.4	2718.2	2585.5	2502.1	2505.9
57.5°	10573.3	5546.4	2650.0	2577.9	2691.7	2938.1	2885.1	2661.3	2479.4	2403.6	2380.8
60°	9303.3	4329.4	2441.4	2395.9	2528.6	2718.2	2699.3	2505.9	2301.2	2214.0	2255.7
62.5°	6342.5	3173.2	2278.4	2270.9	2339.1	2524.9	2475.6	2301.2	2130.6	2073.7	2047.2
65°	3692.5	2407.4	2119.2	2088.9	2145.7	2244.3	2278.4	2096.4	1918.3	1880.4	1869.0
67.5°	2179.9	1990.3	1914.5	1865.3	1846.2	1906.9	1933.5	1827.3	1649.1	1596.0	1641.5
70°	1823.5	1770.5	1774.3	1690.8	1645.3	1603.6	1580.9	1486.1	1338.3	1270.0	1251.1
72.5°	1573.3	1550.6	1535.4	1459.6	1417.8	1323.1	1224.5	1129.7	1019.8	962.9	966.7
75°	1201.8	1194.2	1201.8	1163.9	1091.9	1016.0	925.0	803.7	720.3	648.2	663.5
77.5°	716.5	739.2	750.7	735.5	705.2	636.9	580.0	500.4	420.8	364.0	356.3
80°	492.8	511.8	530.8	511.8	481.5	432.2	371.6	310.8	254.0	223.7	216.1
82.5°	375.3	394.3	405.6	386.7	348.8	295.7	254.0	212.3	166.8	136.5	128.9
85°	136.5	155.4	151.6	182.0	197.1	189.6	163.0	125.1	94.8	68.2	64.4
87.5°	37.9	34.1	37.9	37.9	37.9	34.1	30.4	30.4	30.4	18.9	15.1
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)