

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: P648680

Luminaire Tested: **GALN-SA9B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40301.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

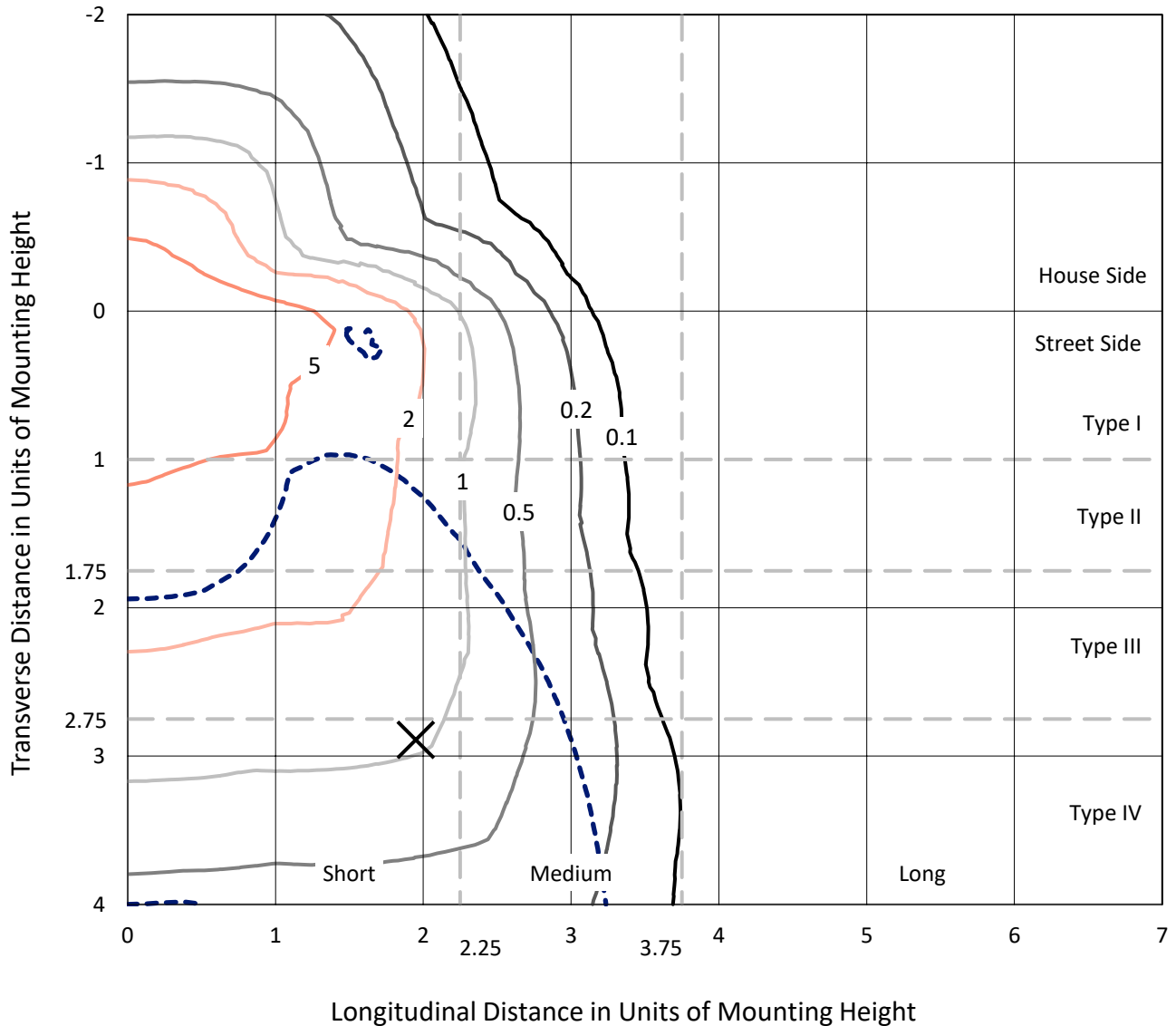
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

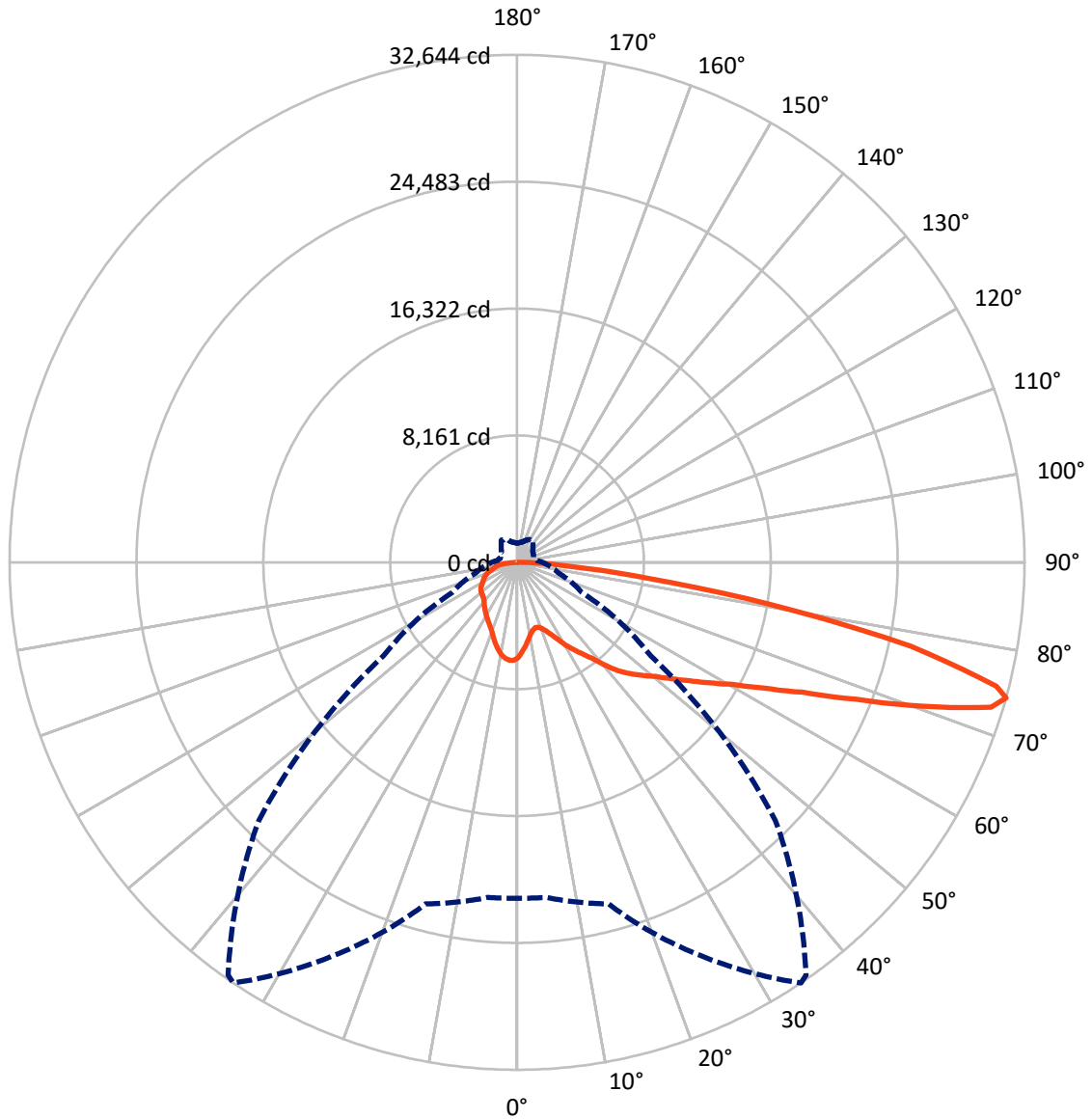
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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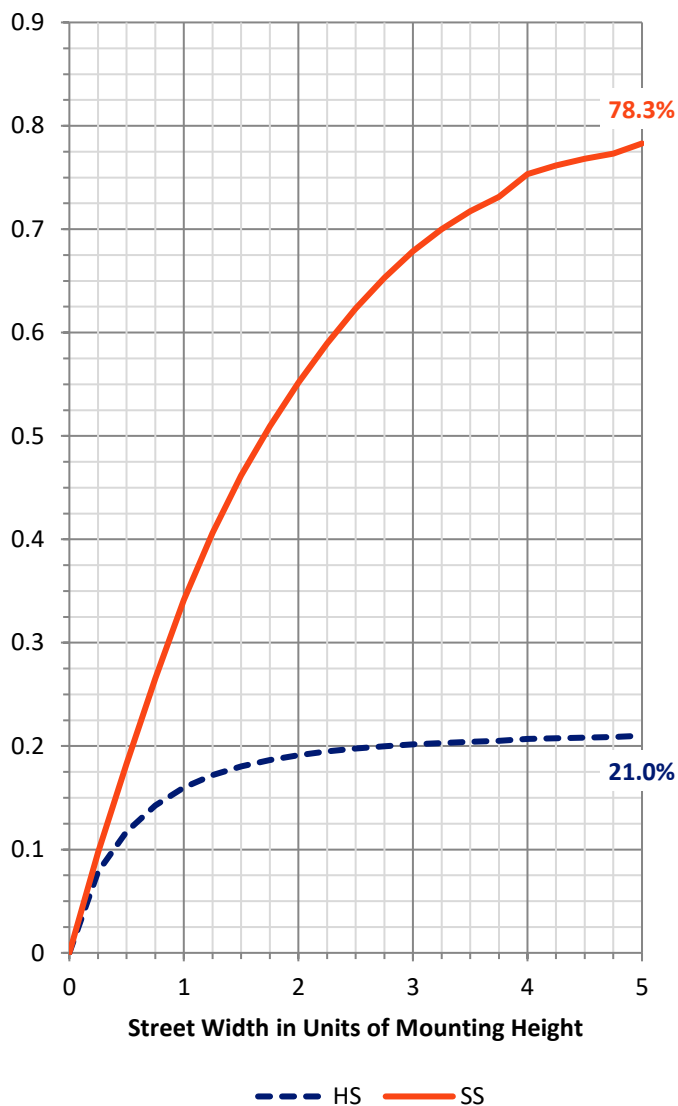
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8576.5	0.0	8576.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	31725.3	0.0	31725.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	40301.8	0.0	40301.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.6	1.4
10°-20°	1531.9	3.8
20°-30°	2525.7	6.3
30°-40°	3783.3	9.4
40°-50°	5499.9	13.6
50°-60°	7682.0	19.1
60°-70°	9617.4	23.9
70°-80°	7952.8	19.7
80°-90°	1149.1	2.9
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°	40301.8	100.0
0°-180°	40301.8	100.0

Coefficient of Utilization

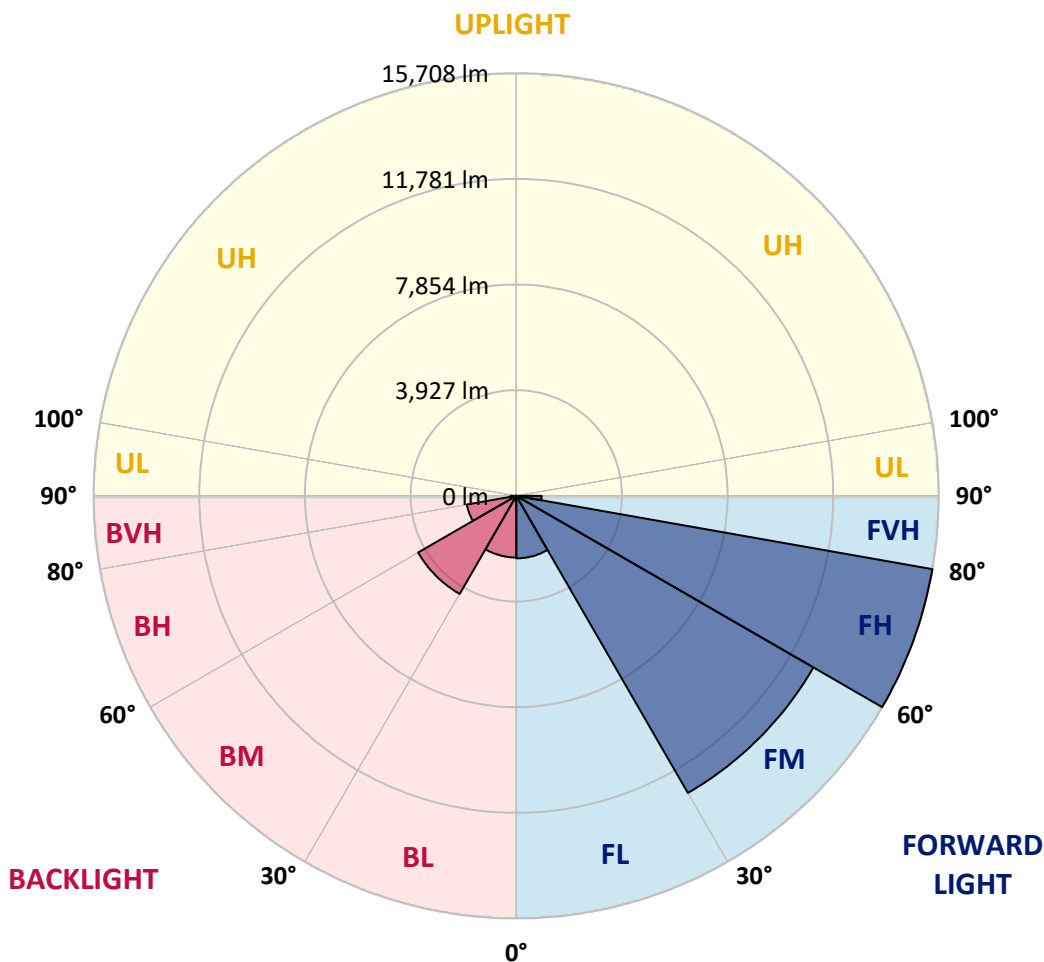


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.2	5.8			
FM (30°-60°)	12753.2	31.6			
FH (60°-80°)	15707.5	39.0			G5
FVH (80°-90°)	941.4	2.3			G5
BL (0°-30°)	2294.1	5.7	B3/2500		
BM (30°-60°)	4212.0	10.5	B3/5000		
BH (60°-80°)	1862.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	207.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3
2.5°	5686.7	5715.7	5731.3	5787.2	5800.5	5818.4	5865.3	5927.8	6008.2	6079.6	6142.1
5°	5213.3	5258.0	5284.8	5333.9	5429.9	5438.8	5563.8	5706.7	5869.8	6021.6	6146.6
7.5°	4764.6	4813.6	4836.0	4925.3	5052.5	5072.7	5255.7	5481.2	5753.6	5983.6	6175.6
10°	4427.4	4452.0	4501.1	4568.1	4719.9	4733.3	4972.2	5273.6	5626.4	5965.8	6224.8
12.5°	4244.3	4257.7	4268.9	4340.3	4490.0	4510.0	4760.1	5101.7	5525.9	5979.1	6305.1
15°	4271.1	4275.6	4226.5	4239.9	4360.4	4389.5	4637.3	4987.8	5463.4	6012.7	6425.7
17.5°	4496.6	4481.0	4360.4	4297.9	4382.8	4396.2	4612.7	4943.2	5434.3	6075.1	6550.7
20°	4851.6	4829.3	4621.7	4483.2	4532.3	4543.5	4693.1	4976.7	5463.4	6177.9	6744.9
22.5°	5293.7	5284.8	4969.9	4802.5	4800.3	4800.3	4878.4	5097.3	5550.5	6318.5	6948.1
25°	5912.1	5865.3	5454.5	5237.9	5177.6	5173.1	5164.2	5295.9	5662.1	6468.1	7189.3
27.5°	6546.3	6465.9	6099.7	5767.0	5637.5	5621.9	5563.8	5577.2	5805.0	6637.8	7463.9
30°	7115.6	7064.2	6720.4	6352.0	6197.9	6162.2	6001.5	5927.8	6043.9	6943.6	7901.5
32.5°	7550.9	7519.7	7251.8	6916.9	6689.2	6682.4	6448.0	6387.7	6416.8	7314.3	8401.6
35°	7903.7	7914.9	7778.7	7488.5	7227.2	7189.3	7033.0	6957.0	6872.2	7850.1	9031.2
37.5°	8386.0	8410.5	8401.6	8151.6	7832.3	7841.2	7805.5	7680.4	7454.9	8448.5	9730.0
40°	8917.4	8935.2	8933.0	8836.9	8669.5	8678.5	8665.1	8522.2	8185.0	9209.8	10507.0
42.5°	9651.9	9567.1	9346.0	9442.0	9540.3	9582.7	9674.2	9538.0	9075.9	10022.6	11237.1
45°	10473.6	10312.8	9812.6	9857.3	10221.3	10301.6	10806.2	10618.7	10042.6	10955.8	12096.7
47.5°	10991.5	10833.0	10411.0	10402.1	10884.3	10962.5	11855.6	11786.3	10922.3	11962.8	13146.1
50°	11453.7	11431.3	10955.8	11069.7	11540.8	11656.8	12998.7	12934.0	11799.7	13150.6	14289.2
52.5°	12139.1	11958.3	11578.7	11813.1	12436.1	12587.9	14132.9	13943.1	12605.8	14199.9	15398.9
55°	12447.2	12404.8	12382.5	12585.6	13440.7	13550.2	15235.8	14800.5	13293.4	15088.5	16242.8
57.5°	13271.1	13192.9	13414.0	13552.4	14624.1	14791.6	16388.0	15695.8	13896.2	15794.0	16653.6
60°	14338.3	14295.9	14499.0	14749.1	15945.9	16200.3	17700.7	16459.4	14380.7	16149.1	16428.1
62.5°	15932.5	15928.0	15890.0	16425.9	17819.0	18053.5	19207.8	17202.8	14456.7	15883.3	15262.6
65°	18218.8	18138.4	17807.9	18392.9	20150.0	20424.6	20777.4	17618.1	13998.9	14519.2	12851.4
67.5°	20610.0	20605.5	20337.6	21096.7	23496.8	23780.3	22739.9	17526.6	12728.5	11761.8	9127.2
70°	22592.6	22496.5	22838.2	24861.0	27772.4	28100.6	24456.8	16448.2	10138.6	7767.5	5423.2
72.5°	23068.1	23072.6	23782.6	27763.5	31878.3	31929.6	25075.3	13331.4	6785.2	4284.5	2712.7
74°	21603.5	21641.4	22742.2	27908.6	32644.1	32411.9	23494.5	10478.0	4588.1	2797.6	1955.9
75°	19719.1	19480.2	21072.1	26941.9	31849.3	31599.2	21643.7	8408.3	3500.9	2234.9	1712.5
77.5°	10542.8	10786.1	13242.1	20105.3	25874.6	25586.6	14675.5	4032.2	1891.1	1556.2	1232.4
80°	3753.2	4139.4	5818.4	10520.4	16588.9	16678.2	7003.9	1848.7	1330.7	1147.6	870.8
82.5°	1531.6	1574.1	2498.4	4668.6	8423.9	8504.3	2860.1	1098.5	951.1	790.4	520.2
85°	598.4	616.2	1105.2	2098.8	3594.6	3829.0	989.1	580.5	585.0	453.2	265.7
87.5°	200.9	227.7	453.2	698.8	1221.2	1196.7	288.0	171.9	209.8	196.5	82.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3	6153.3
2.5°	6173.4	6215.8	6244.8	6276.1	6305.1	6314.0	6307.4	6327.4	6329.7	6331.9	6334.2
5°	6209.1	6267.1	6323.0	6354.2	6367.6	6356.5	6318.5	6298.4	6280.5	6267.1	6271.6
7.5°	6258.2	6340.8	6392.2	6405.6	6369.9	6318.5	6224.8	6151.1	6104.2	6072.9	6070.7
10°	6334.2	6414.5	6456.9	6419.0	6320.8	6195.7	6048.4	5909.9	5805.0	5773.8	5771.5
12.5°	6430.2	6521.7	6519.4	6407.8	6235.9	6012.7	5773.8	5613.0	5470.1	5398.6	5427.7
15°	6555.2	6624.4	6559.7	6358.7	6086.3	5780.4	5485.7	5266.9	5106.2	5030.2	5034.7
17.5°	6700.3	6760.6	6588.6	6271.6	5876.4	5483.5	5141.9	4934.2	4807.0	4751.2	4746.7
20°	6881.2	6899.0	6588.6	6119.8	5606.3	5137.4	4811.5	4666.3	4594.9	4565.8	4574.8
22.5°	7075.4	7039.6	6552.9	5905.5	5251.3	4775.8	4556.9	4492.1	4456.4	4452.0	4456.4
25°	7294.2	7193.7	6479.2	5615.2	4880.7	4463.2	4335.9	4347.1	4353.7	4353.7	4369.4
27.5°	7562.1	7361.1	6356.5	5249.1	4447.5	4172.9	4137.1	4215.3	4251.1	4257.7	4268.9
30°	7914.9	7544.3	6153.3	4791.3	4079.1	3911.6	3974.2	4079.1	4119.3	4143.9	4139.4
32.5°	8334.6	7745.2	5878.7	4333.7	3782.2	3728.6	3804.5	3911.6	3956.3	3969.7	3951.9
35°	8828.0	7972.9	5516.9	3905.0	3523.2	3554.4	3643.8	3677.2	3717.4	3717.4	3726.4
37.5°	9359.4	8156.0	5074.9	3512.0	3322.3	3436.1	3500.9	3469.6	3451.7	3429.4	3440.6
40°	9899.7	8292.2	4501.1	3123.5	3121.3	3313.3	3331.2	3241.9	3170.4	3148.1	3136.9
42.5°	10370.8	8377.1	3983.1	2822.1	2931.6	3192.8	3206.2	3063.3	2949.4	2882.4	2860.1
45°	10926.8	8475.3	3476.3	2572.1	2755.1	3096.8	3130.2	2938.2	2770.8	2630.1	2594.4
47.5°	11688.2	8698.6	3076.6	2377.8	2627.9	3036.5	3083.4	2835.5	2614.5	2431.4	2402.4
50°	12547.7	9004.4	2766.3	2246.1	2529.6	2982.8	3040.9	2730.6	2469.3	2266.2	2243.8
52.5°	13335.8	9169.6	2498.4	2127.7	2433.6	2884.7	2985.1	2654.7	2326.4	2100.9	2080.9
55°	13766.8	8901.7	2234.9	2011.7	2301.9	2757.3	2907.0	2549.8	2188.0	2013.9	1984.8
57.5°	13824.8	8348.0	1996.0	1886.6	2163.5	2601.0	2761.8	2422.4	2098.8	1953.6	1929.1
60°	13376.1	7521.9	1810.7	1783.9	2022.8	2424.7	2598.9	2310.9	2007.2	1886.6	1862.1
62.5°	12259.7	6624.4	1681.2	1690.1	1879.9	2239.4	2478.3	2203.7	1920.1	1813.0	1790.6
65°	10339.6	5467.8	1556.2	1594.1	1752.7	2094.3	2368.9	2114.3	1833.0	1757.1	1737.0
67.5°	7182.5	3947.4	1453.5	1493.7	1632.1	1946.9	2241.7	2018.3	1734.8	1694.6	1663.3
70°	3976.4	2429.2	1332.9	1379.8	1507.0	1781.7	2098.8	1873.2	1591.9	1574.1	1529.4
72.5°	2089.8	1547.3	1196.7	1248.1	1337.4	1569.6	1879.9	1714.7	1451.2	1375.3	1317.3
74°	1632.1	1268.1	1105.2	1158.8	1219.1	1444.6	1750.4	1600.8	1350.8	1261.5	1216.8
75°	1422.2	1129.7	1027.1	1096.3	1149.8	1359.7	1649.9	1520.4	1294.9	1210.1	1170.0
77.5°	1004.7	846.2	839.5	922.1	951.1	1192.3	1487.0	1384.3	1154.3	1065.0	1027.1
80°	705.6	634.1	665.3	716.7	756.8	1053.8	1379.8	1196.7	946.6	841.7	828.3
82.5°	459.9	415.3	475.6	522.4	535.8	777.0	1114.1	908.7	689.9	560.4	520.2
85°	212.1	207.7	272.4	265.7	263.5	379.5	660.9	531.3	397.5	296.9	279.1
87.5°	53.6	51.4	66.9	55.8	66.9	58.0	60.3	15.7	2.3	0.0	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)