

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: P650935

Luminaire Tested: **GALN-SA5C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650935
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-SA5C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 29544.3 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

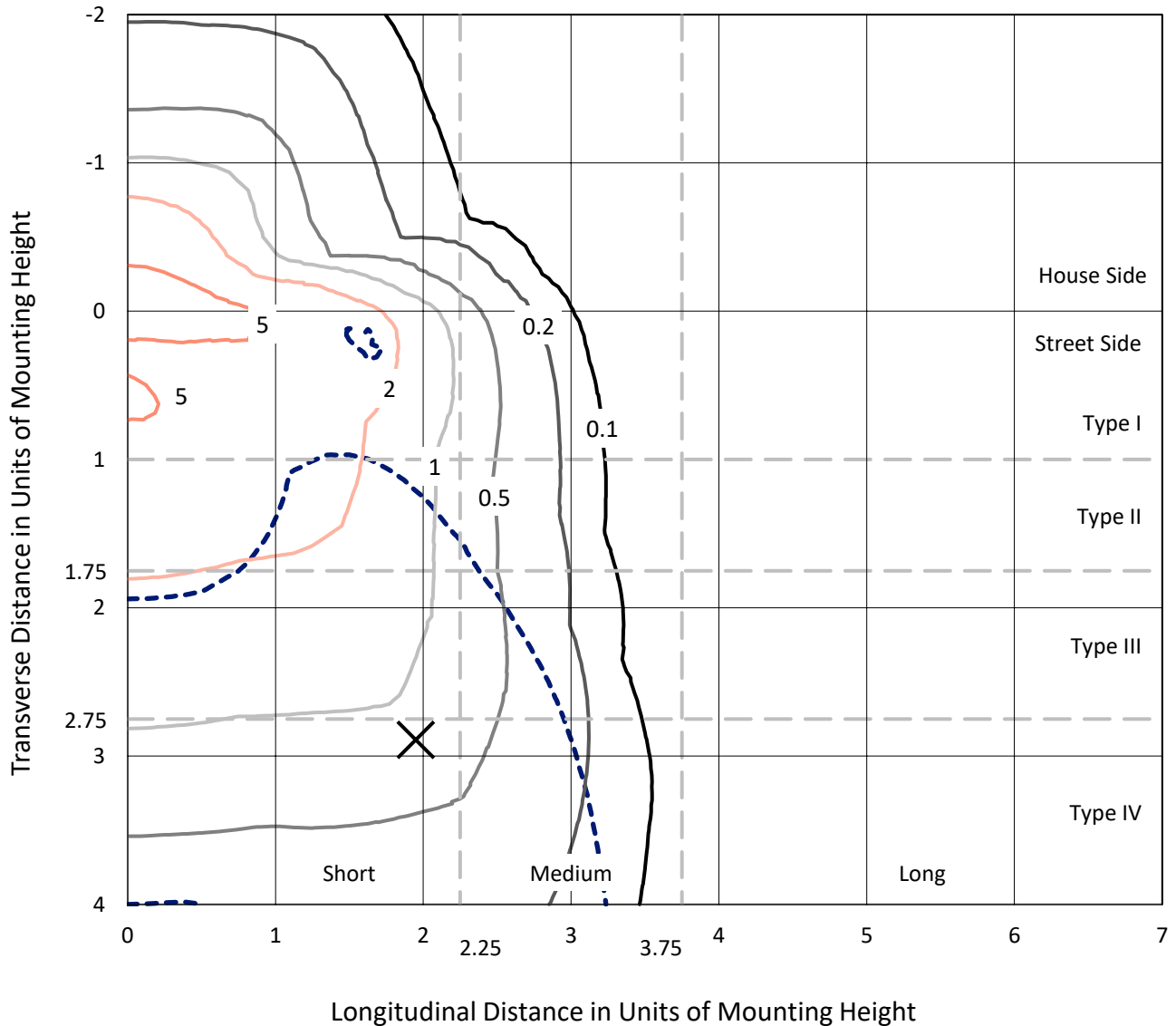
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

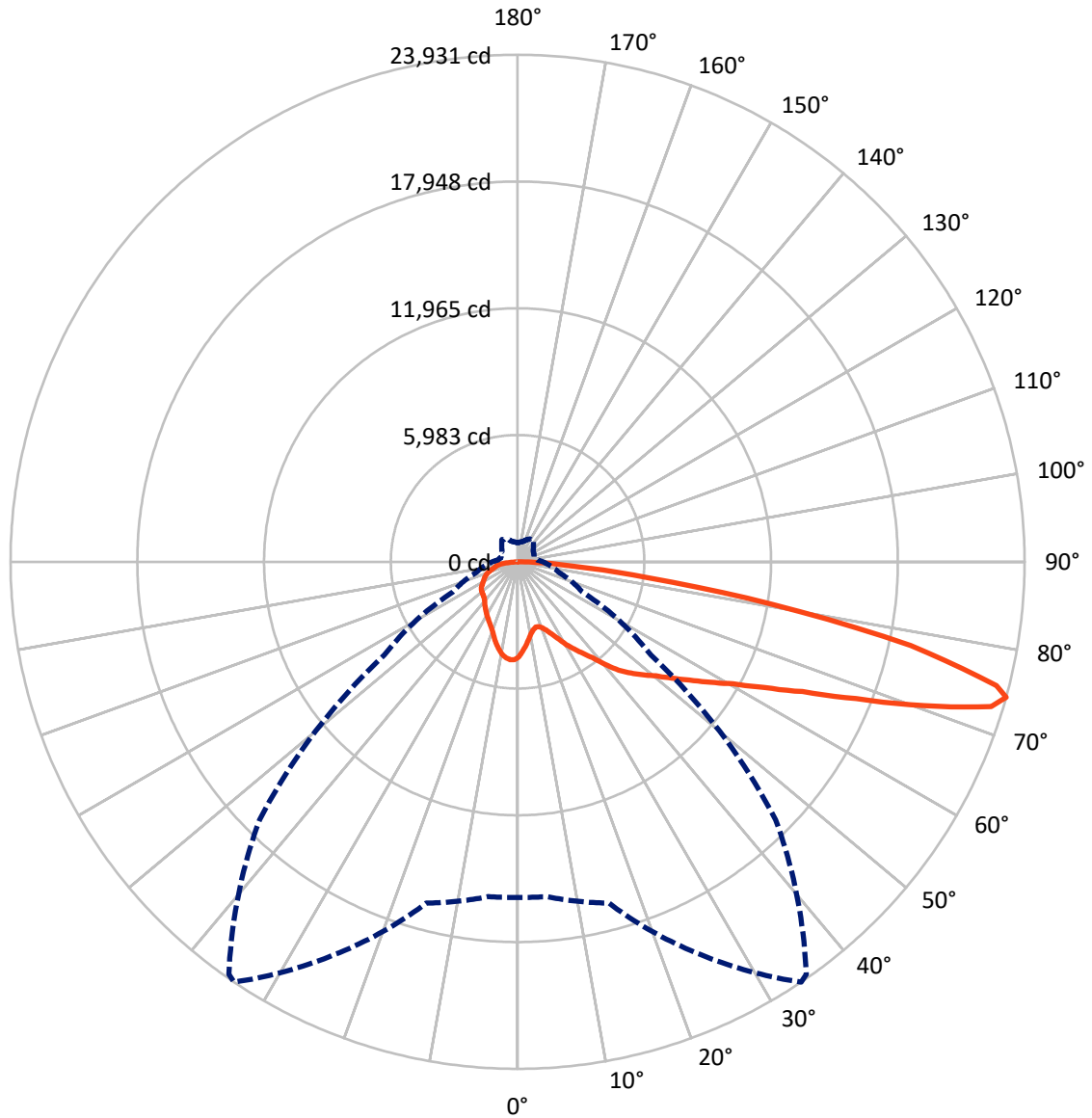
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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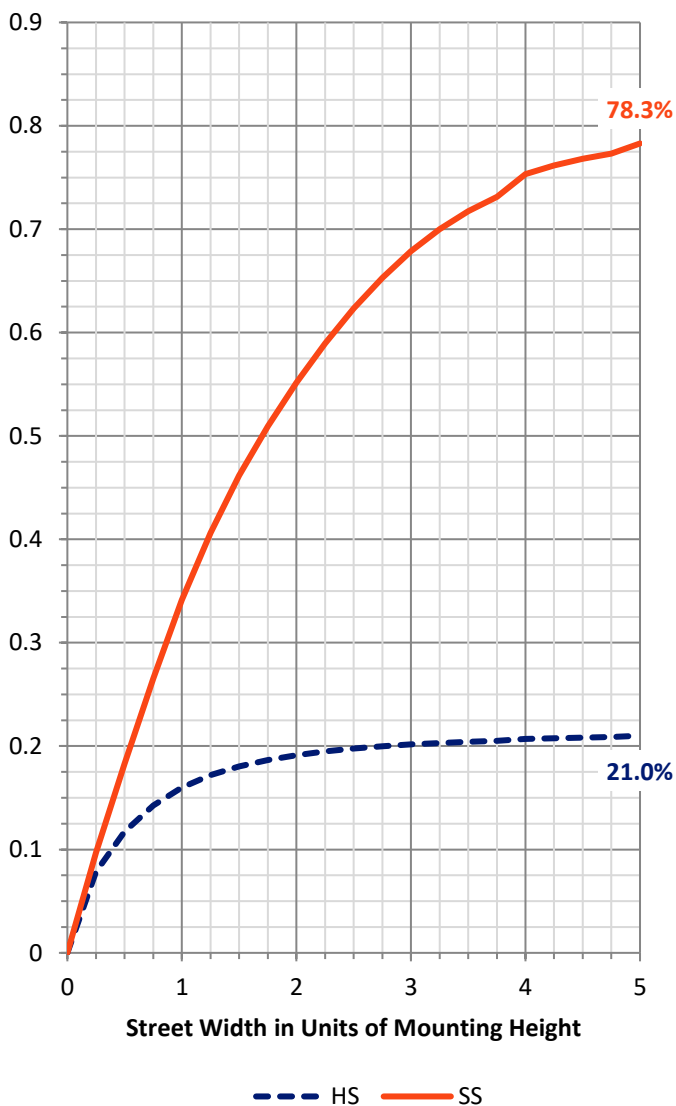
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6287.3	0.0	6287.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	23257.1	0.0	23257.1
	% Fixture	78.7	0.0	78.7
Total	Lumens	29544.3	0.0	29544.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.2	1.4
10°-20°	1123.0	3.8
20°-30°	1851.6	6.3
30°-40°	2773.4	9.4
40°-50°	4031.8	13.6
50°-60°	5631.5	19.1
60°-70°	7050.3	23.9
70°-80°	5830.1	19.7
80°-90°	842.4	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°	29544.3	100.0
0°-180°	29544.3	100.0

Coefficient of Utilization



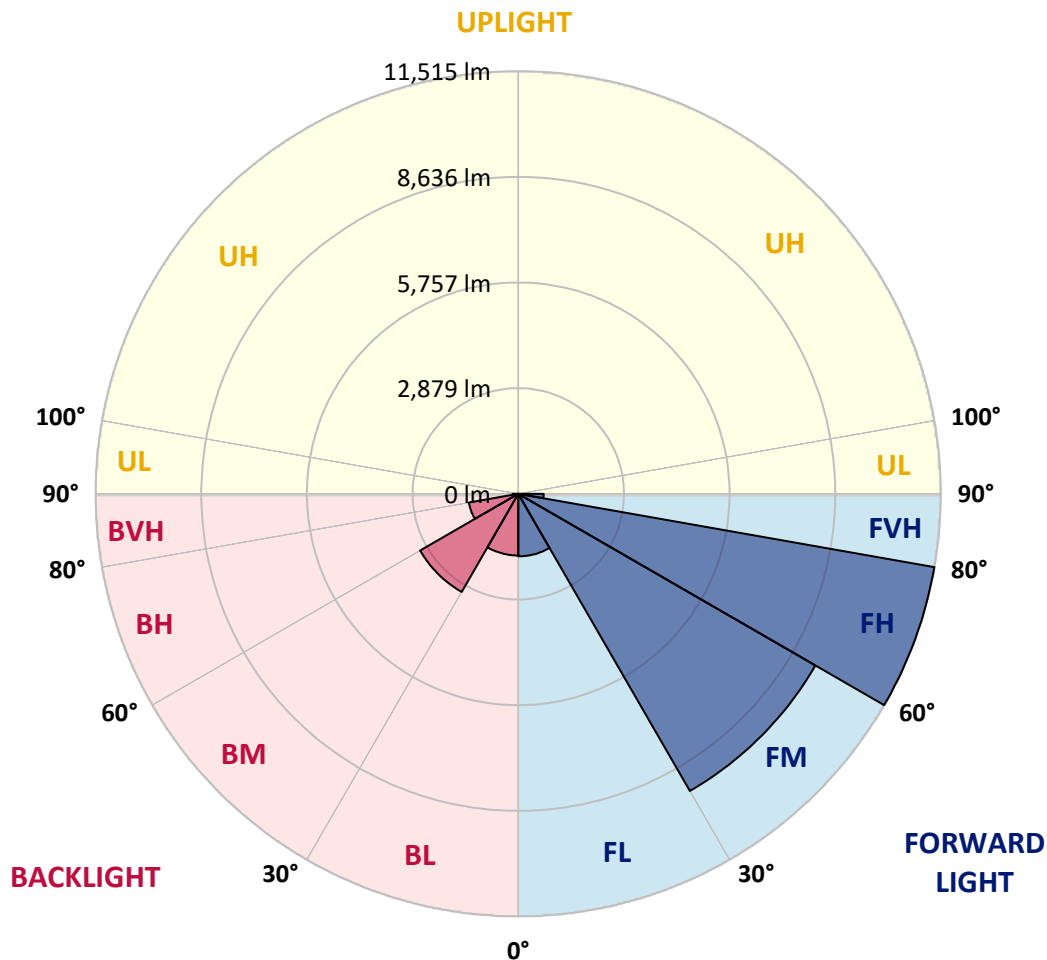
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.1	5.8			
FM (30°-60°)	9349.0	31.6			
FH (60°-80°)	11514.8	39.0			G4/12000
FVH (80°-90°)	690.1	2.3			G4/750
BL (0°-30°)	1681.7	5.7	B3/2500		
BM (30°-60°)	3087.7	10.5	B3/5000		
BH (60°-80°)	1365.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	152.3	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9
2.5°	4168.8	4190.0	4201.5	4242.4	4252.3	4265.3	4299.7	4345.5	4404.5	4456.8	4502.6
5°	3821.8	3854.5	3874.2	3910.1	3980.5	3987.1	4078.8	4183.5	4303.0	4414.2	4505.9
7.5°	3492.8	3528.8	3545.2	3610.7	3703.9	3718.6	3852.9	4018.2	4217.9	4386.4	4527.2
10°	3245.7	3263.7	3299.7	3348.8	3460.0	3469.9	3645.0	3866.0	4124.6	4373.4	4563.2
12.5°	3111.4	3121.3	3129.4	3181.8	3291.5	3306.2	3489.5	3739.9	4050.9	4383.2	4622.1
15°	3131.0	3134.3	3098.3	3108.2	3196.6	3217.8	3399.5	3656.5	4005.1	4407.7	4710.5
17.5°	3296.4	3284.9	3196.6	3150.7	3212.9	3222.7	3381.5	3623.7	3983.8	4453.5	4802.2
20°	3556.6	3540.3	3388.1	3286.5	3322.5	3330.8	3440.4	3648.3	4005.1	4528.9	4944.6
22.5°	3880.7	3874.2	3643.4	3520.6	3519.0	3519.0	3576.3	3736.6	4068.9	4632.0	5093.5
25°	4334.1	4299.7	3998.5	3839.8	3795.6	3792.3	3785.8	3882.3	4150.8	4741.6	5270.3
27.5°	4798.9	4740.0	4471.5	4227.7	4132.8	4121.3	4078.8	4088.5	4255.5	4866.0	5471.6
30°	5216.3	5178.6	4926.6	4656.5	4543.6	4517.3	4399.5	4345.5	4430.6	5090.2	5792.4
32.5°	5535.5	5512.5	5316.1	5070.6	4903.6	4898.7	4726.9	4682.7	4704.0	5362.0	6159.1
35°	5794.1	5802.2	5702.4	5489.6	5298.1	5270.3	5155.7	5100.1	5037.8	5754.7	6620.6
37.5°	6147.5	6165.5	6159.1	5975.7	5741.7	5748.2	5722.0	5630.3	5465.1	6193.4	7132.9
40°	6537.1	6550.2	6548.5	6478.2	6355.4	6362.0	6352.2	6247.4	6000.3	6751.5	7702.5
42.5°	7075.6	7013.4	6851.4	6921.8	6993.8	7024.9	7092.0	6992.2	6653.3	7347.3	8237.7
45°	7677.9	7560.1	7193.4	7226.2	7493.0	7551.8	7921.8	7784.3	7362.0	8031.5	8867.8
47.5°	8057.6	7941.4	7632.1	7625.5	7979.1	8036.3	8691.1	8640.3	8006.9	8769.6	9637.1
50°	8396.5	8380.1	8031.5	8114.9	8460.3	8545.4	9529.0	9481.6	8650.1	9640.4	10475.1
52.5°	8898.9	8766.3	8488.1	8659.9	9116.6	9227.9	10360.5	10221.4	9241.0	10409.6	11288.6
55°	9124.8	9093.6	9077.3	9226.3	9853.2	9933.3	11169.1	10849.9	9745.1	11061.0	11907.2
57.5°	9728.8	9671.4	9833.5	9935.0	10720.6	10843.3	12013.6	11506.2	10187.0	11578.2	12208.4
60°	10511.1	10480.0	10629.0	10812.2	11689.6	11876.1	12976.0	12066.0	10542.2	11838.5	12043.1
62.5°	11679.7	11676.4	11648.6	12041.4	13062.7	13234.6	14080.8	12611.0	10597.9	11643.7	11188.7
65°	13355.8	13296.8	13054.6	13483.4	14771.5	14972.8	15231.4	12915.5	10262.3	10643.7	9421.1
67.5°	15108.6	15105.4	14909.0	15465.5	17224.9	17432.8	16670.1	12848.4	9331.0	8622.3	6691.0
70°	16562.1	16491.8	16742.1	18225.1	20359.3	20599.9	17928.8	12057.8	7432.4	5694.2	3975.7
72.5°	16910.7	16914.0	17434.4	20352.8	23369.3	23406.9	18382.2	9772.9	4974.0	3140.9	1988.6
74°	15837.0	15864.9	16671.7	20459.2	23930.7	23760.4	17223.3	7681.2	3363.5	2050.9	1433.7
75°	14455.6	14280.5	15447.5	19750.5	23348.0	23164.7	15866.5	6163.9	2566.4	1638.4	1255.4
77.5°	7728.6	7907.1	9707.5	14738.8	18968.1	18757.0	10758.2	2955.9	1386.3	1140.8	903.5
80°	2751.3	3034.5	4265.3	7712.3	12160.9	12226.4	5134.4	1355.2	975.5	841.3	638.3
82.5°	1122.8	1153.9	1831.5	3422.4	6175.4	6234.3	2096.6	805.3	697.3	579.4	381.4
85°	438.7	451.7	810.2	1538.5	2635.1	2807.0	725.1	425.5	428.8	332.3	194.8
87.5°	147.3	166.9	332.3	512.3	895.3	877.2	211.2	126.1	153.8	144.1	60.6
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°	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9	4510.9
2.5°	4525.6	4556.6	4577.9	4600.9	4622.1	4628.7	4623.7	4638.5	4640.1	4641.8	4643.4
5°	4551.7	4594.3	4635.3	4658.1	4668.0	4659.8	4632.0	4617.3	4604.1	4594.3	4597.6
7.5°	4587.7	4648.3	4686.0	4695.8	4669.6	4632.0	4563.2	4509.2	4474.8	4451.9	4450.2
10°	4643.4	4702.4	4733.4	4705.6	4633.6	4541.9	4433.9	4332.4	4255.5	4232.6	4231.0
12.5°	4713.8	4780.9	4779.2	4697.4	4571.4	4407.7	4232.6	4114.8	4010.0	3957.6	3978.9
15°	4805.5	4856.2	4808.8	4661.4	4461.8	4237.5	4021.5	3861.0	3743.2	3687.5	3690.8
17.5°	4911.9	4956.0	4830.0	4597.6	4307.9	4019.8	3769.4	3617.1	3523.9	3483.0	3479.7
20°	5044.4	5057.5	4830.0	4486.3	4109.8	3766.1	3527.2	3420.8	3368.4	3347.1	3353.7
22.5°	5186.8	5160.6	4803.8	4329.1	3849.6	3501.0	3340.5	3293.1	3266.9	3263.7	3266.9
25°	5347.2	5273.6	4749.8	4116.4	3577.9	3271.8	3178.6	3186.7	3191.6	3191.6	3203.1
27.5°	5543.6	5396.3	4659.8	3848.0	3260.4	3059.1	3032.9	3090.2	3116.3	3121.3	3129.4
30°	5802.2	5530.5	4510.9	3512.4	2990.3	2867.6	2913.4	2990.3	3019.8	3037.8	3034.5
32.5°	6109.9	5677.8	4309.5	3176.9	2772.6	2733.3	2789.0	2867.6	2900.3	2910.1	2897.0
35°	6471.7	5844.8	4044.4	2862.7	2582.8	2605.7	2671.2	2695.7	2725.2	2725.2	2731.7
37.5°	6861.2	5979.0	3720.3	2574.6	2435.5	2519.0	2566.4	2543.5	2530.4	2514.0	2522.2
40°	7257.2	6078.8	3299.7	2289.8	2288.2	2428.9	2442.0	2376.5	2324.2	2307.8	2299.6
42.5°	7602.6	6141.0	2920.0	2068.9	2149.0	2340.5	2350.3	2245.6	2162.1	2113.0	2096.6
45°	8010.2	6213.1	2548.4	1885.5	2019.7	2270.1	2294.7	2154.0	2031.2	1928.1	1901.9
47.5°	8568.3	6376.7	2255.4	1743.1	1926.4	2226.0	2260.4	2078.6	1916.6	1782.4	1761.1
50°	9198.4	6600.9	2027.9	1646.6	1854.4	2186.7	2229.2	2001.7	1810.3	1661.3	1644.9
52.5°	9776.2	6722.0	1831.5	1559.8	1784.0	2114.7	2188.3	1946.1	1705.5	1540.1	1525.4
55°	10092.1	6525.7	1638.4	1474.7	1687.5	2021.3	2131.0	1869.1	1604.0	1476.3	1455.0
57.5°	10134.6	6119.7	1463.3	1383.0	1586.0	1906.8	2024.6	1775.9	1538.5	1432.1	1414.1
60°	9805.6	5514.2	1327.4	1307.8	1482.9	1777.5	1905.1	1694.0	1471.4	1383.0	1365.0
62.5°	8987.3	4856.2	1232.5	1239.0	1378.1	1641.6	1816.8	1615.5	1407.6	1329.0	1312.6
65°	7579.7	4008.4	1140.8	1168.7	1284.8	1535.2	1736.6	1550.0	1343.7	1288.1	1273.4
67.5°	5265.3	2893.7	1065.5	1095.0	1196.5	1427.3	1643.3	1479.6	1271.8	1242.2	1219.4
70°	2915.0	1780.7	977.2	1011.5	1104.8	1306.1	1538.5	1373.2	1167.0	1153.9	1121.1
72.5°	1532.0	1134.3	877.2	914.9	980.4	1150.7	1378.1	1257.0	1063.9	1008.2	965.6
74°	1196.5	929.6	810.2	849.5	893.6	1059.0	1283.2	1173.5	990.2	924.8	892.0
75°	1042.6	828.2	752.9	803.7	842.9	996.8	1209.5	1114.6	949.3	887.1	857.7
77.5°	736.5	620.3	615.4	676.0	697.3	874.1	1090.1	1014.8	846.2	780.7	752.9
80°	517.2	464.8	487.8	525.4	554.9	772.5	1011.5	877.2	694.0	617.0	607.2
82.5°	337.2	304.4	348.6	383.0	392.8	569.6	816.7	666.2	505.8	410.8	381.4
85°	155.5	152.2	199.7	194.8	193.1	278.2	484.5	389.6	291.3	217.7	204.6
87.5°	39.3	37.7	49.1	41.0	49.1	42.6	44.2	11.4	1.6	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)