

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: P652073

Luminaire Tested: **GALN-SA8A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652073
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18319.5 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

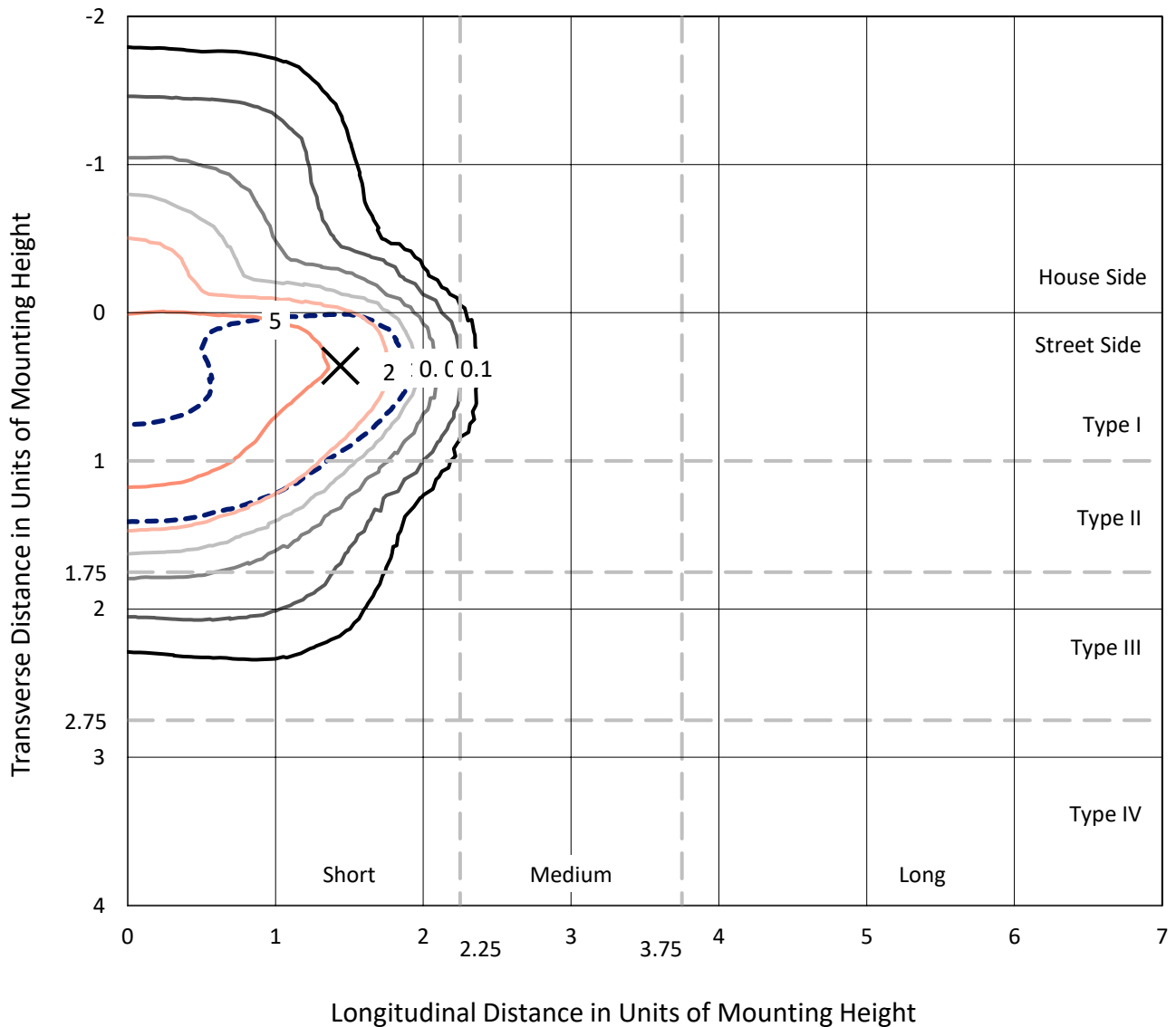
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

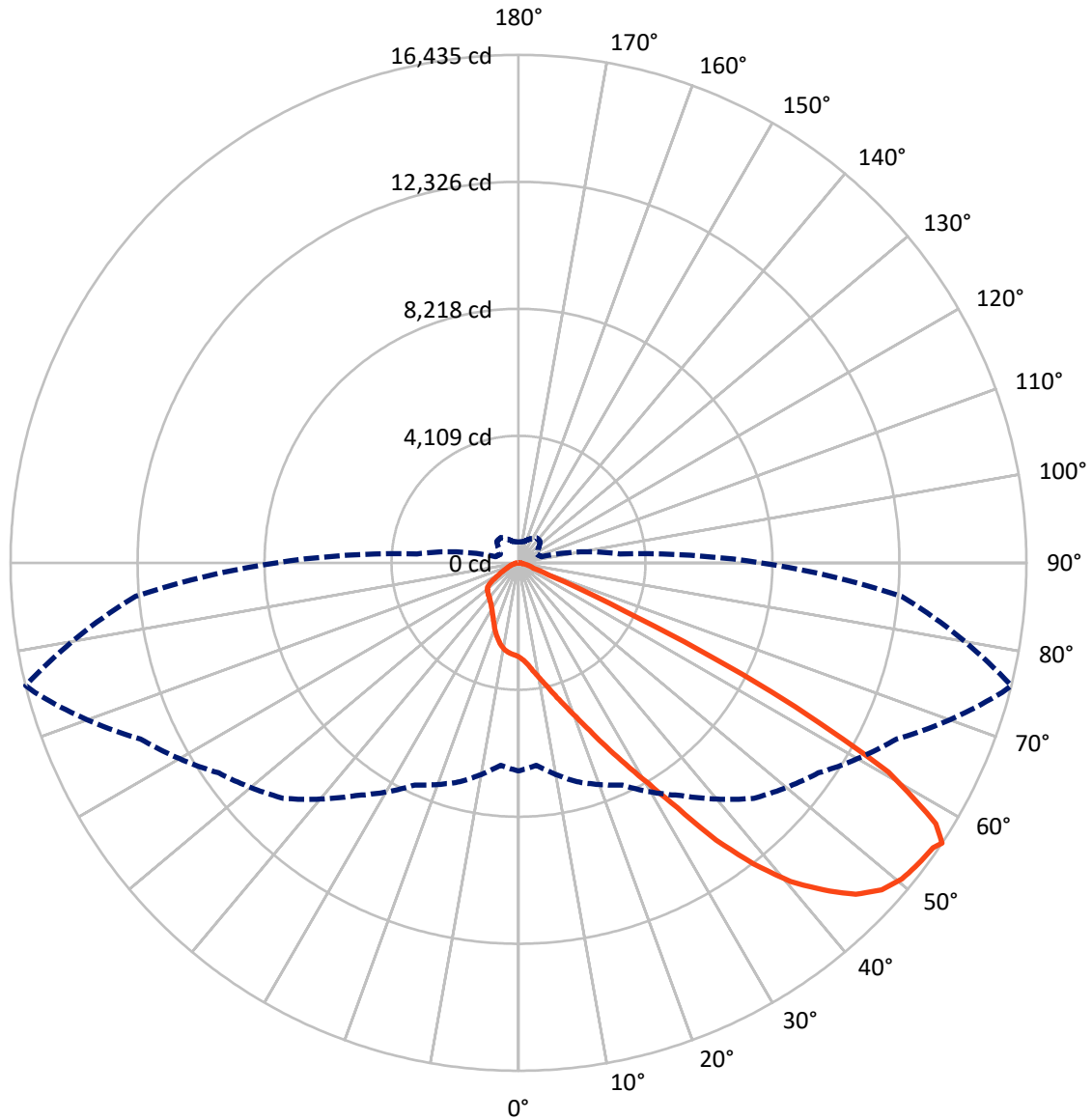
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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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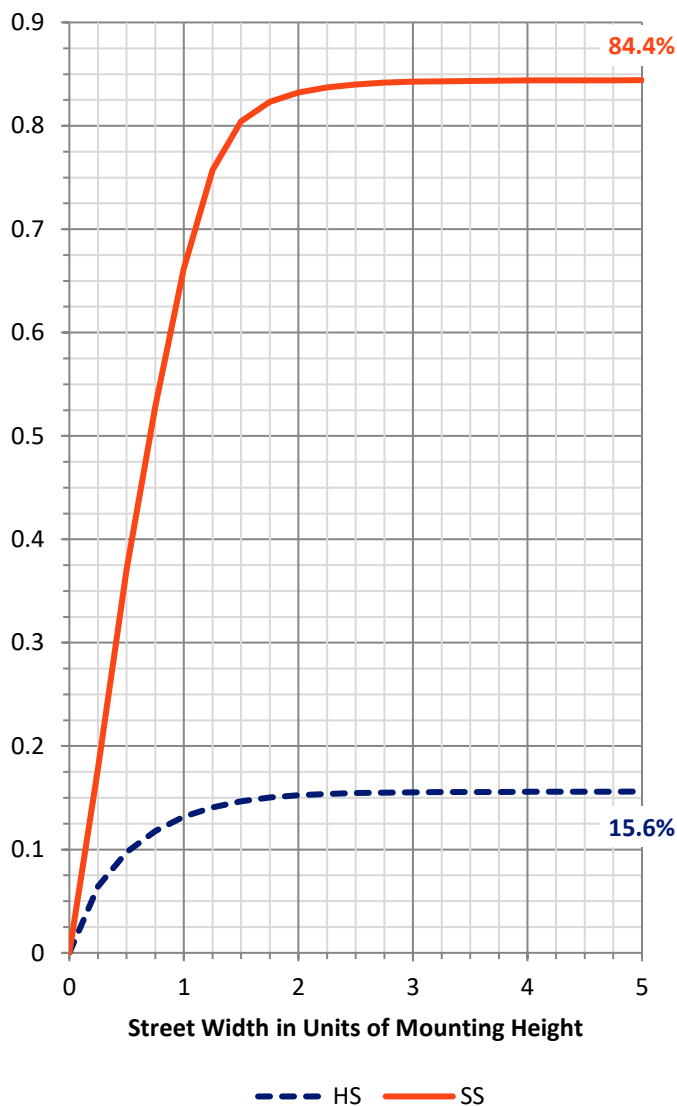
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2877.9	0.0	2877.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15441.6	0.0	15441.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	18319.5	0.0	18319.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.2	1.7
10°-20°	986.8	5.4
20°-30°	1789.4	9.8
30°-40°	3085.9	16.8
40°-50°	5013.2	27.4
50°-60°	5284.1	28.8
60°-70°	1614.5	8.8
70°-80°	207.0	1.1
80°-90°	31.5	0.2
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°	18319.5	100.0
0°-180°	18319.5	100.0

Coefficient of Utilization



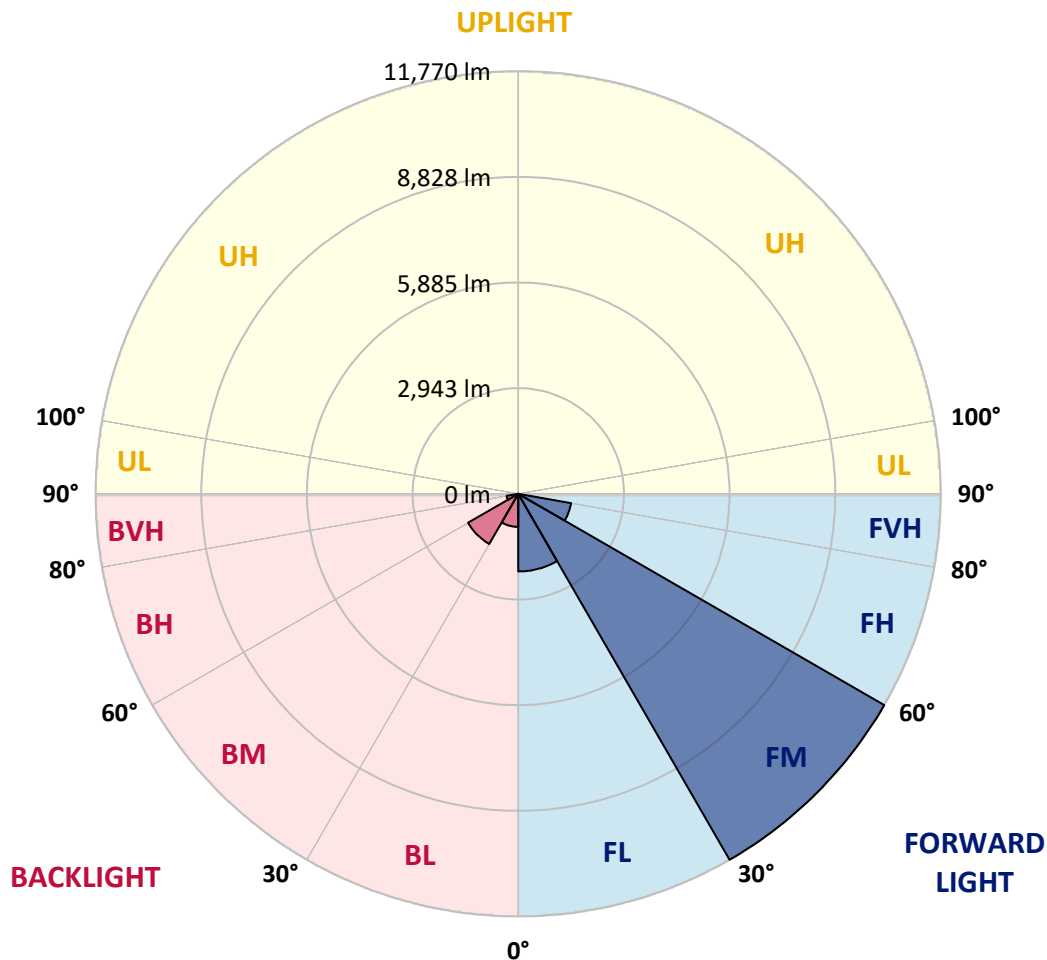
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2162.8	11.8			
FM (30°-60°)	11770.3	64.2			
FH (60°-80°)	1493.2	8.2			G1/1800
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	920.6	5.0	B2/1000		
BM (30°-60°)	1612.9	8.8	B2/2500		
BH (60°-80°)	328.3	1.8	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
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°	55°	65°	75°	76°	85°
0°	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3
2.5°	3511.9	3430.9	3434.3	3427.5	3417.4	3380.2	3268.8	3251.9	3177.6	3157.4	3089.8
5°	3934.0	3863.1	3903.7	3842.9	3785.4	3751.7	3569.4	3484.9	3366.8	3322.9	3228.3
7.5°	4197.4	4163.7	4150.2	4153.5	4099.5	4015.1	3934.0	3748.3	3589.6	3555.8	3356.6
10°	4325.8	4305.5	4325.8	4315.6	4339.3	4349.4	4207.6	4096.2	3863.1	3805.7	3495.0
12.5°	4356.1	4396.7	4413.6	4457.5	4514.9	4612.8	4602.6	4450.7	4140.1	4102.9	3707.8
15°	4430.5	4464.2	4447.3	4518.3	4626.3	4791.8	4879.6	4855.9	4521.6	4454.1	3954.3
17.5°	4498.0	4437.2	4494.6	4636.4	4744.5	4997.7	5210.5	5308.4	4937.0	4859.3	4180.5
20°	4589.2	4572.3	4562.2	4633.1	4825.6	5163.2	5585.3	5764.3	5403.0	5321.9	4504.7
22.5°	4866.0	4869.5	4862.7	4758.0	4896.5	5278.0	5912.9	6355.3	5960.2	5892.6	4872.8
25°	5230.8	5186.9	5153.1	5068.7	5051.8	5382.7	6243.8	7077.9	6628.8	6581.5	5271.3
27.5°	5615.7	5615.7	5514.4	5436.7	5328.7	5642.8	6547.8	7780.3	7435.9	7371.7	5619.1
30°	6034.4	6058.1	6044.6	5879.1	5811.6	5926.4	6858.4	8678.5	8361.1	8280.1	6193.2
32.5°	6652.4	6601.8	6659.2	6520.7	6321.5	6422.8	7348.1	9482.3	9563.3	9448.5	6946.2
35°	7469.6	7439.2	7402.1	7175.8	6939.4	7020.5	8040.3	10471.6	11072.8	11015.3	7706.0
37.5°	8202.4	8185.5	8155.1	7999.8	7726.3	7824.2	8827.1	11501.6	12545.0	12356.0	8779.9
40°	8972.3	9063.5	8965.6	8827.1	8577.3	8793.3	9752.4	12112.8	13784.3	13554.7	9600.4
42.5°	10015.8	9944.8	9988.7	9735.5	9600.4	9836.8	10681.0	12724.0	14746.8	14473.3	10471.6
45°	11126.8	11130.1	11012.0	10930.9	10579.7	10836.4	11251.7	13061.7	15513.3	15300.6	11130.1
47.5°	11839.3	11835.9	11964.2	12092.6	11731.2	11478.0	11640.0	13382.5	15908.4	15810.5	11369.9
50°	11727.8	11761.6	11927.1	12406.6	12595.7	12254.6	12004.8	13288.0	16087.4	16077.2	11575.9
52.5°	10201.5	10312.9	10589.9	11282.1	12234.4	12656.5	12386.3	13463.6	16175.2	16192.0	11883.2
55°	7766.8	7827.6	8354.3	9195.2	10248.8	11694.1	12234.4	13602.0	16242.7	16273.1	12254.6
56°	6736.8	6574.8	7334.5	7932.2	9191.8	10772.2	11849.4	13493.9	16202.2	16435.2	12440.4
57.5°	5085.5	4977.5	5592.1	6338.4	7550.7	9218.9	10654.0	12984.0	15928.7	15925.3	12173.6
60°	3093.2	2985.1	3457.9	3896.9	4575.6	5676.5	7199.5	10339.9	13466.9	13750.6	9857.1
62.5°	1840.4	1907.9	2374.0	2640.7	2860.2	2975.0	3724.7	6145.9	8985.8	9188.4	6115.5
65°	1225.8	1249.5	1600.7	2039.6	2137.6	1701.9	1516.2	2488.8	3896.9	3772.0	2522.5
67.5°	756.4	810.5	1073.9	1533.1	1698.6	1242.7	719.3	928.6	1073.9	1073.9	729.4
70°	459.3	486.3	715.9	1043.4	1165.0	800.3	523.4	523.4	516.6	506.5	435.6
72.5°	219.5	236.4	364.7	536.9	547.1	422.1	405.2	442.4	432.3	428.8	361.3
75°	94.5	101.3	128.3	168.9	192.5	179.0	246.5	317.4	327.6	317.4	260.0
77.5°	30.4	33.8	47.3	60.8	64.2	77.7	104.7	131.7	152.0	141.8	128.3
80°	3.4	6.7	13.5	30.4	47.3	60.8	77.7	87.8	97.9	97.9	91.2
82.5°	3.4	3.4	13.5	27.0	43.9	57.4	74.3	84.4	97.9	101.3	94.5
85°	0.0	3.4	10.1	23.6	37.2	37.2	33.8	33.8	23.6	23.6	23.6
87.5°	0.0	0.0	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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°	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3	3049.3
2.5°	3076.3	3069.6	2978.4	2921.0	2890.6	2829.8	2792.7	2765.6	2745.4	2721.7	2725.1
5°	3116.8	3093.2	2941.2	2836.5	2711.6	2644.1	2586.7	2539.4	2509.0	2502.2	2488.8
7.5°	3231.6	3106.7	2877.1	2688.0	2529.3	2461.8	2411.1	2380.7	2394.2	2363.8	2387.4
10°	3319.4	3133.7	2799.4	2525.9	2367.2	2316.5	2289.5	2313.2	2346.9	2333.4	2316.5
12.5°	3427.5	3160.7	2674.5	2370.5	2222.0	2184.8	2232.1	2276.0	2343.5	2370.5	2336.8
15°	3549.1	3191.2	2515.8	2191.6	2097.0	2127.4	2208.5	2286.2	2353.7	2387.4	2407.7
17.5°	3697.7	3181.0	2360.4	2049.8	1978.9	2066.7	2164.6	2235.5	2336.8	2387.4	2374.0
20°	3836.1	3147.3	2188.2	1907.9	1911.3	1992.3	2073.4	2188.2	2242.3	2309.8	2286.2
22.5°	3967.8	3086.5	2009.2	1810.0	1810.0	1935.0	1975.4	2049.8	2097.0	2130.8	2127.4
25°	4153.5	2971.7	1860.6	1715.5	1756.0	1837.0	1870.8	1894.4	1874.2	1901.2	1904.5
27.5°	4285.2	2853.4	1739.1	1631.0	1705.3	1766.1	1756.0	1742.5	1695.2	1658.0	1681.7
30°	4427.1	2715.0	1634.4	1573.6	1614.1	1668.2	1627.7	1587.1	1512.9	1452.1	1455.4
32.5°	4629.7	2650.8	1543.2	1506.1	1560.1	1566.9	1523.0	1462.2	1387.9	1330.5	1327.1
35°	5007.9	2610.3	1465.5	1462.2	1472.3	1475.7	1431.8	1357.5	1327.1	1279.8	1296.7
37.5°	5386.1	2590.0	1411.5	1398.0	1394.6	1398.0	1347.4	1276.5	1333.8	1330.5	1337.3
40°	5869.0	2681.2	1333.8	1317.0	1320.4	1320.4	1256.2	1235.9	1337.3	1347.4	1350.7
42.5°	6358.6	2796.1	1283.2	1229.2	1242.7	1242.7	1208.9	1185.3	1256.2	1188.7	1178.5
45°	6784.1	2964.9	1229.2	1141.4	1175.1	1192.0	1181.9	1141.4	1097.5	982.7	982.7
47.5°	6922.6	3113.5	1165.0	1057.0	1084.0	1158.2	1127.9	1043.4	965.8	871.2	864.5
50°	7165.7	3275.5	1114.3	959.0	1016.4	1107.6	1077.2	992.8	905.0	837.5	840.8
52.5°	7415.6	3461.3	1019.8	844.2	915.1	1067.1	1067.1	972.5	837.5	790.2	783.4
55°	7790.4	3454.5	851.0	692.2	817.2	1006.3	1023.2	871.2	749.7	712.5	712.5
56°	7844.4	3299.2	766.6	648.3	773.3	989.4	992.8	844.2	715.9	675.4	675.4
57.5°	7439.2	2978.4	672.0	594.3	719.3	959.0	962.4	820.6	688.9	631.5	624.7
60°	5723.8	2016.0	560.5	530.2	651.8	864.5	881.4	746.3	604.4	560.5	557.2
62.5°	3231.6	1117.8	493.0	479.5	560.5	736.1	786.8	651.8	513.3	489.6	496.4
65°	1475.7	614.6	415.4	388.4	452.5	567.3	634.9	536.9	422.1	395.1	395.1
67.5°	540.3	418.7	354.6	307.3	317.4	368.1	412.0	347.8	280.3	239.8	249.9
70°	384.9	351.2	310.7	266.8	246.5	239.8	236.4	195.9	138.4	108.1	114.8
72.5°	310.7	290.4	260.0	226.2	192.5	162.1	138.4	101.3	64.2	43.9	40.5
75°	222.9	212.8	189.1	162.1	135.1	114.8	94.5	64.2	33.8	16.9	16.9
77.5°	114.8	114.8	111.4	101.3	84.4	67.5	54.0	37.2	20.3	6.7	6.7
80°	87.8	94.5	97.9	87.8	77.7	60.8	43.9	27.0	13.5	3.4	3.4
82.5°	84.4	97.9	104.7	91.2	77.7	57.4	43.9	27.0	13.5	3.4	3.4
85°	20.3	20.3	30.4	33.8	43.9	47.3	37.2	23.6	10.1	3.4	3.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	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)