

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: P651963

Luminaire Tested: **GALN-SA6A-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651963
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-SA6A-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 13453.5 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

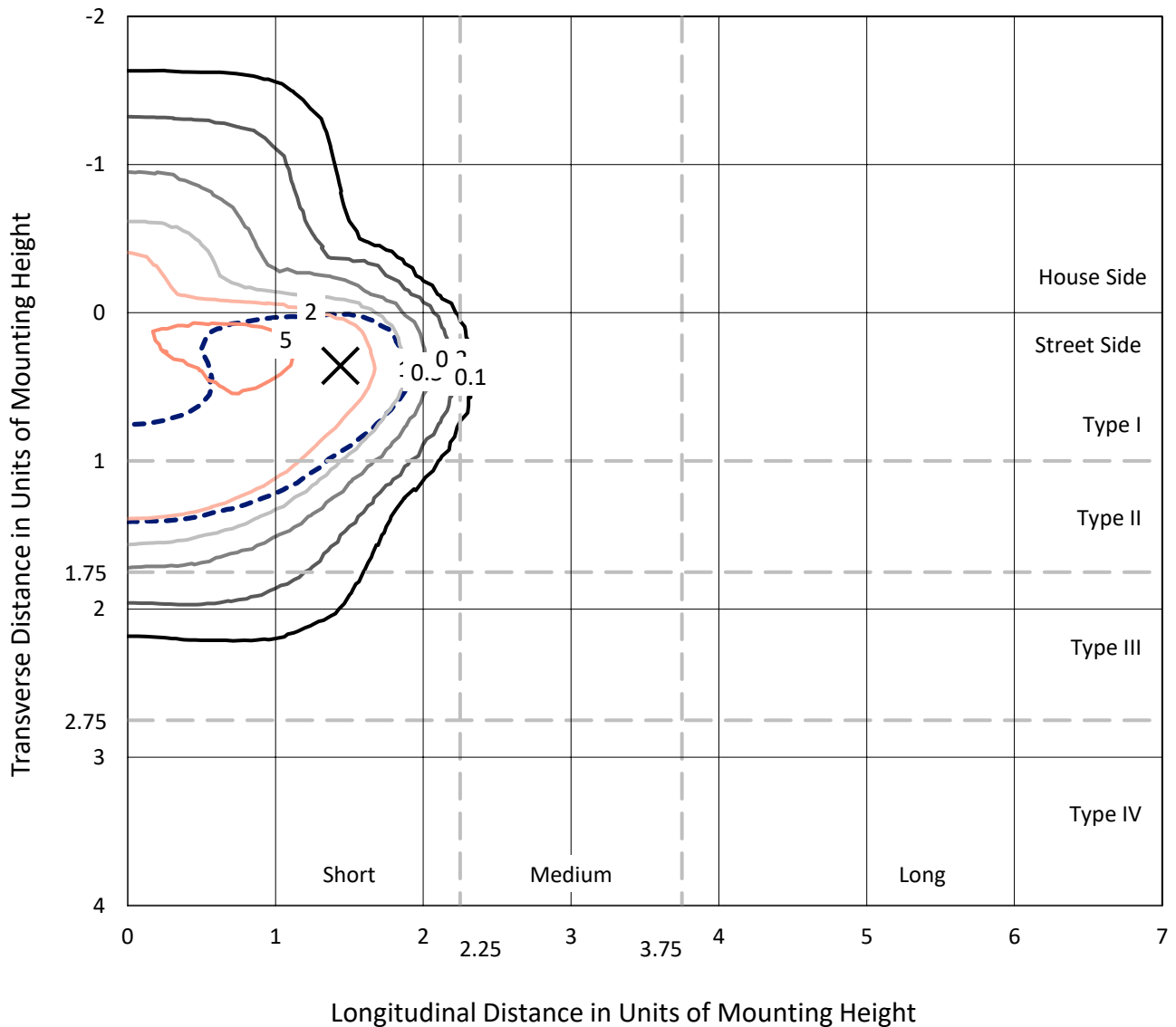
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

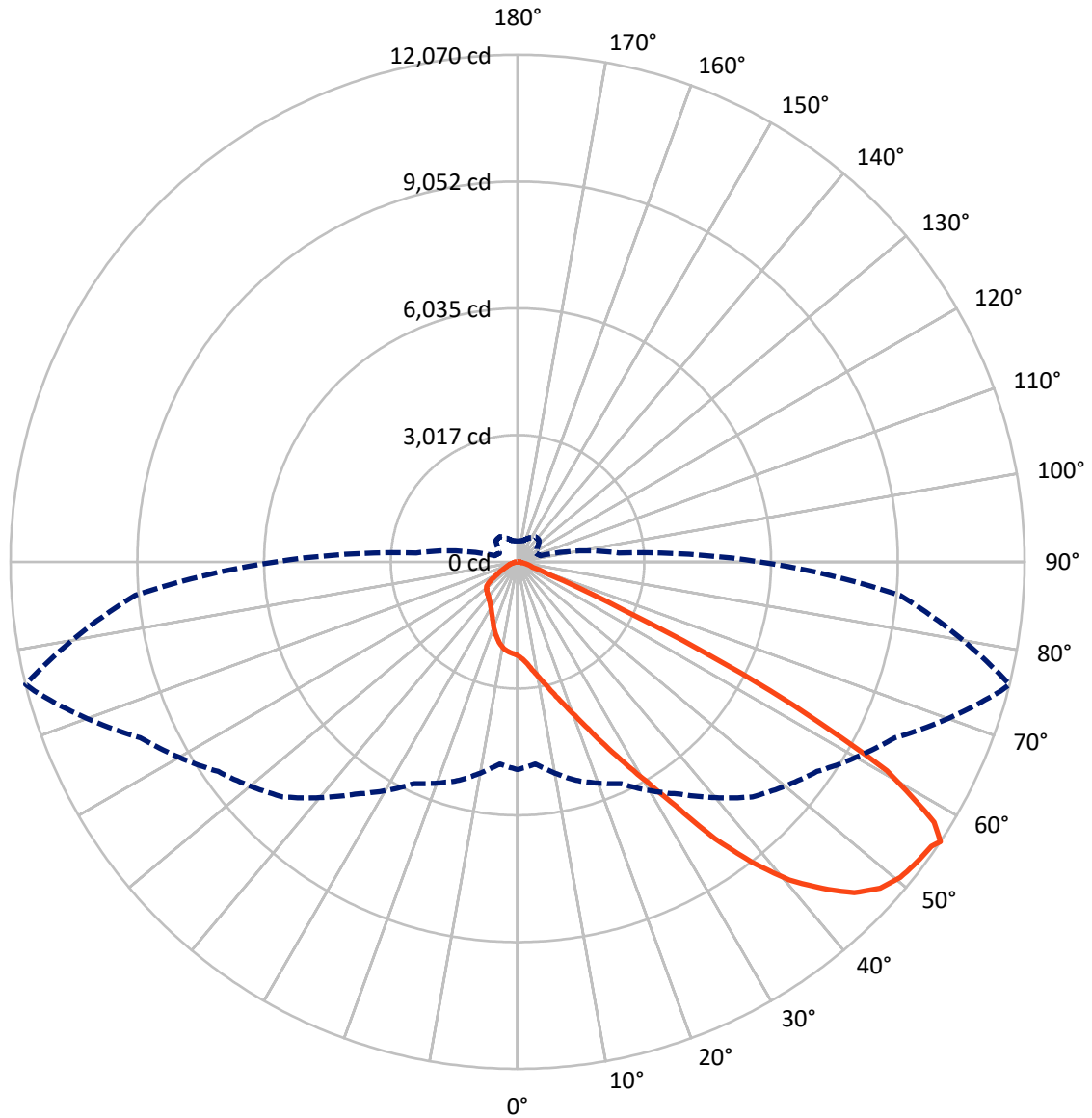
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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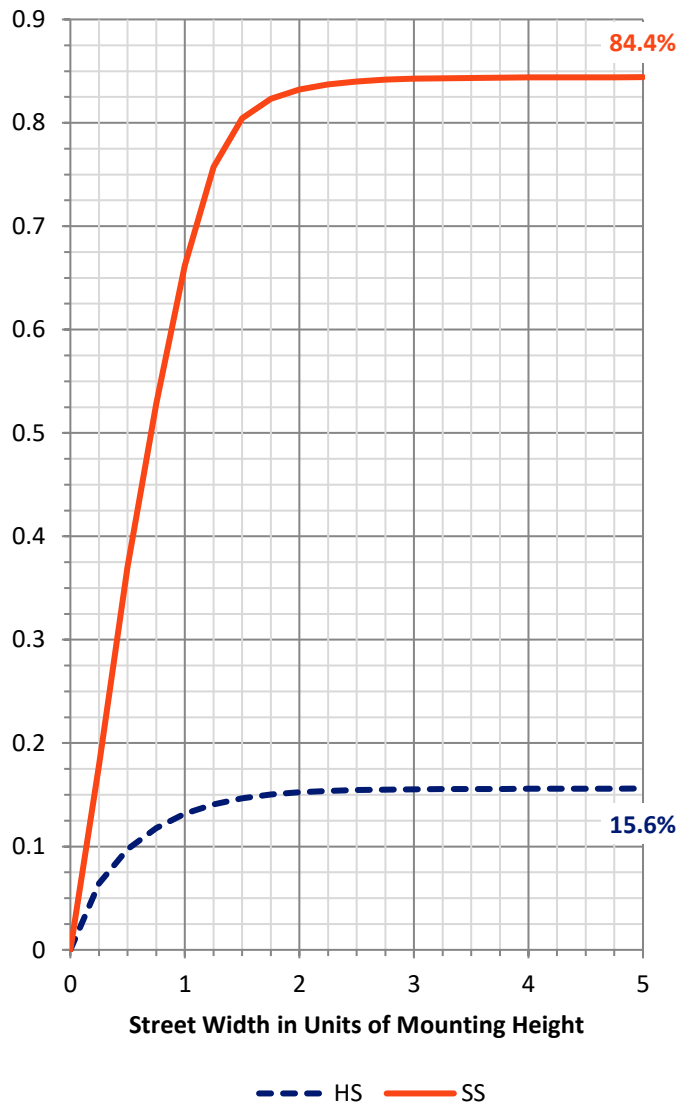
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2113.5	0.0	2113.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11340.0	0.0	11340.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	13453.5	0.0	13453.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.7
10°-20°	724.7	5.4
20°-30°	1314.1	9.8
30°-40°	2266.2	16.8
40°-50°	3681.6	27.4
50°-60°	3880.5	28.8
60°-70°	1185.7	8.8
70°-80°	152.0	1.1
80°-90°	23.1	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°	13453.5	100.0
0°-180°	13453.5	100.0

Coefficient of Utilization



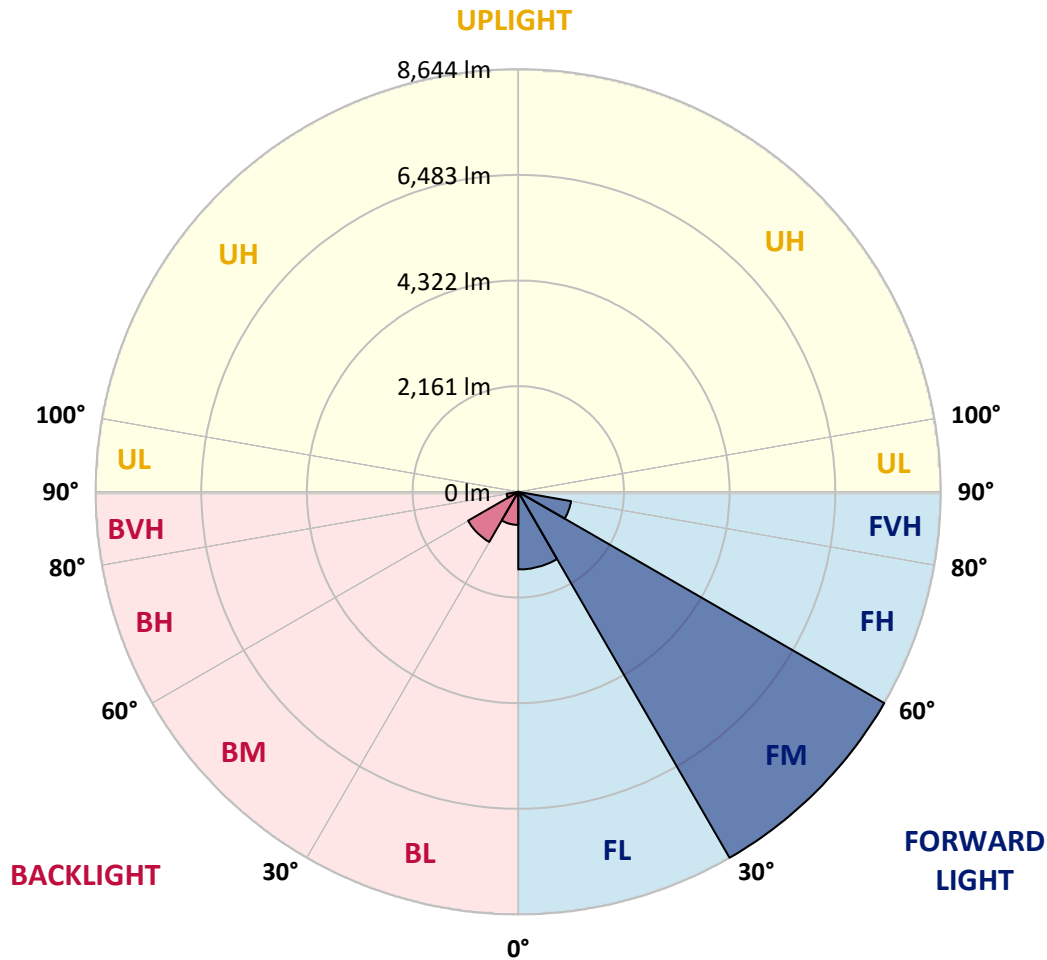
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1588.3	11.8			
FM (30°-60°)	8643.8	64.2			
FH (60°-80°)	1096.5	8.2			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	676.1	5.0	B2/1000		
BM (30°-60°)	1184.5	8.8	B2/2500		
BH (60°-80°)	241.1	1.8	B1/500		G1/500
BVH (80°-90°)	11.8	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°	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3
2.5°	2579.1	2519.6	2522.1	2517.1	2509.6	2482.4	2400.6	2388.1	2333.6	2318.7	2269.1
5°	2889.1	2837.0	2866.8	2822.1	2780.0	2755.2	2621.2	2559.2	2472.5	2440.2	2370.8
7.5°	3082.5	3057.7	3047.8	3050.3	3010.6	2948.6	2889.1	2752.7	2636.1	2611.3	2465.1
10°	3176.8	3161.9	3176.8	3169.3	3186.6	3194.1	3089.9	3008.1	2837.0	2794.8	2566.7
12.5°	3199.1	3228.9	3241.2	3273.5	3315.6	3387.5	3380.1	3268.5	3040.4	3013.1	2722.9
15°	3253.7	3278.5	3266.0	3318.1	3397.5	3519.0	3583.4	3566.1	3320.6	3271.0	2904.0
17.5°	3303.2	3258.6	3300.8	3404.9	3484.3	3670.3	3826.5	3898.4	3625.6	3568.6	3070.2
20°	3370.2	3357.8	3350.4	3402.4	3543.8	3791.7	4101.7	4233.2	3967.8	3908.3	3308.2
22.5°	3573.6	3576.0	3571.1	3494.2	3595.9	3876.1	4342.3	4667.2	4377.1	4327.4	3578.5
25°	3841.4	3809.1	3784.3	3722.4	3709.9	3953.0	4585.3	5197.9	4868.0	4833.3	3871.1
27.5°	4124.1	4124.1	4049.7	3992.6	3913.3	4143.9	4808.5	5713.7	5460.8	5413.6	4126.5
30°	4431.6	4449.0	4439.1	4317.5	4267.9	4352.3	5036.7	6373.4	6140.2	6080.7	4548.1
32.5°	4885.4	4848.2	4890.3	4788.7	4642.4	4716.7	5396.3	6963.6	7023.1	6938.8	5101.2
35°	5485.5	5463.2	5436.0	5269.8	5096.2	5155.8	5904.7	7690.2	8131.6	8089.4	5659.2
37.5°	6023.7	6011.3	5988.9	5874.9	5674.0	5746.0	6482.4	8446.6	9212.8	9074.0	6447.8
40°	6589.1	6656.1	6584.1	6482.4	6298.9	6457.7	7162.0	8895.4	10122.9	9954.3	7050.4
42.5°	7355.4	7303.3	7335.5	7149.6	7050.4	7223.9	7843.9	9344.3	10829.7	10628.9	7690.2
45°	8171.2	8173.8	8087.0	8027.4	7769.5	7958.0	8263.0	9592.3	11392.7	11236.4	8173.8
47.5°	8694.5	8692.1	8786.3	8880.5	8615.2	8429.2	8548.3	9827.8	11682.8	11610.9	8349.9
50°	8612.7	8637.5	8759.0	9111.1	9250.1	8999.5	8816.0	9758.4	11814.3	11806.8	8501.1
52.5°	7491.8	7573.6	7777.0	8285.4	8984.7	9294.6	9096.3	9887.4	11878.7	11891.2	8726.8
55°	5703.7	5748.4	6135.3	6752.8	7526.5	8587.9	8984.7	9989.1	11928.3	11950.6	8999.5
56°	4947.4	4828.3	5386.4	5825.3	6750.3	7910.9	8702.0	9909.7	11898.6	12069.7	9136.0
57.5°	3734.7	3655.4	4106.7	4654.8	5545.0	6770.1	7824.1	9535.3	11697.7	11695.2	8940.1
60°	2271.6	2192.2	2539.4	2861.8	3360.3	4168.8	5287.1	7593.5	9889.8	10098.1	7238.8
62.5°	1351.6	1401.1	1743.4	1939.3	2100.5	2184.8	2735.4	4513.4	6599.0	6747.8	4491.1
65°	900.2	917.5	1175.5	1497.8	1569.8	1249.9	1113.5	1827.7	2861.8	2770.1	1852.5
67.5°	555.5	595.2	788.6	1125.8	1247.4	912.6	528.2	682.0	788.6	788.6	535.6
70°	337.2	357.1	525.7	766.3	855.5	587.8	384.4	384.4	379.5	372.0	319.9
72.5°	161.2	173.6	267.9	394.3	401.7	310.0	297.6	324.9	317.4	315.0	265.3
75°	69.5	74.4	94.3	124.0	141.4	131.4	181.1	233.1	240.5	233.1	191.0
77.5°	22.3	24.8	34.7	44.7	47.1	57.0	76.9	96.7	111.6	104.1	94.3
80°	2.4	5.0	9.9	22.3	34.7	44.7	57.0	64.5	71.9	71.9	66.9
82.5°	2.4	2.4	9.9	19.8	32.2	42.1	54.6	62.0	71.9	74.4	69.5
85°	0.0	2.4	7.4	17.3	27.2	27.2	24.8	24.8	17.3	17.3	17.3
87.5°	0.0	0.0	2.4	2.4	2.4	5.0	5.0	5.0	5.0	5.0	5.0
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°	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3	2239.3
2.5°	2259.2	2254.2	2187.3	2145.1	2122.8	2078.2	2050.9	2031.0	2016.1	1998.8	2001.2
5°	2288.9	2271.6	2160.0	2083.2	1991.3	1941.8	1899.6	1864.9	1842.5	1837.6	1827.7
7.5°	2373.3	2281.5	2112.8	1974.0	1857.4	1807.8	1770.6	1748.4	1758.3	1735.9	1753.3
10°	2437.7	2301.3	2055.8	1855.0	1738.4	1701.2	1681.4	1698.7	1723.5	1713.6	1701.2
12.5°	2517.1	2321.2	1964.1	1740.9	1631.8	1604.5	1639.2	1671.5	1721.0	1740.9	1716.1
15°	2606.3	2343.5	1847.5	1609.4	1540.0	1562.3	1621.9	1678.9	1728.5	1753.3	1768.2
17.5°	2715.5	2336.0	1733.5	1505.3	1453.2	1517.7	1589.7	1641.7	1716.1	1753.3	1743.4
20°	2817.2	2311.2	1607.0	1401.1	1403.6	1463.2	1522.6	1607.0	1646.7	1696.2	1678.9
22.5°	2913.9	2266.7	1475.5	1329.2	1329.2	1421.0	1450.7	1505.3	1540.0	1564.8	1562.3
25°	3050.3	2182.3	1366.5	1259.8	1289.6	1349.0	1373.9	1391.3	1376.4	1396.1	1398.7
27.5°	3147.0	2095.5	1277.1	1197.8	1252.3	1297.0	1289.6	1279.7	1244.9	1217.6	1235.0
30°	3251.1	1993.8	1200.3	1155.6	1185.4	1225.1	1195.3	1165.5	1111.0	1066.4	1068.8
32.5°	3399.9	1946.7	1133.3	1106.0	1145.7	1150.7	1118.4	1073.8	1019.2	977.1	974.6
35°	3677.7	1917.0	1076.3	1073.8	1081.3	1083.7	1051.5	996.9	974.6	939.9	952.3
37.5°	3955.5	1902.1	1036.6	1026.7	1024.2	1026.7	989.5	937.4	979.6	977.1	982.0
40°	4310.0	1969.0	979.6	967.2	969.7	969.7	922.5	907.6	982.0	989.5	992.0
42.5°	4669.7	2053.4	942.3	902.6	912.6	912.6	887.8	870.4	922.5	873.0	865.5
45°	4982.1	2177.3	902.6	838.2	863.0	875.4	868.0	838.2	805.9	721.7	721.7
47.5°	5083.8	2286.5	855.5	776.2	796.0	850.6	828.3	766.3	709.2	639.8	634.9
50°	5262.4	2405.5	818.4	704.3	746.5	813.4	791.1	729.1	664.6	615.0	617.5
52.5°	5445.9	2541.9	748.9	620.0	672.0	783.6	783.6	714.2	615.0	580.3	575.3
55°	5721.2	2537.0	624.9	508.4	600.1	739.0	751.4	639.8	550.5	523.3	523.3
56°	5760.8	2422.8	563.0	476.2	567.9	726.6	729.1	620.0	525.7	496.0	496.0
57.5°	5463.2	2187.3	493.5	436.5	528.2	704.3	706.8	602.6	505.9	463.7	458.8
60°	4203.4	1480.5	411.7	389.4	478.6	634.9	647.2	548.1	443.9	411.7	409.1
62.5°	2373.3	820.8	362.1	352.1	411.7	540.6	577.9	478.6	376.9	359.6	364.6
65°	1083.7	451.4	305.0	285.2	332.3	416.6	466.3	394.3	310.0	290.1	290.1
67.5°	396.8	307.5	260.4	225.6	233.1	270.3	302.5	255.4	205.8	176.1	183.5
70°	282.7	257.9	228.2	196.0	181.1	176.1	173.6	143.8	101.7	79.4	84.4
72.5°	228.2	213.3	191.0	166.2	141.4	119.0	101.7	74.4	47.1	32.2	29.8
75°	163.7	156.3	138.8	119.0	99.2	84.4	69.5	47.1	24.8	12.4	12.4
77.5°	84.4	84.4	81.8	74.4	62.0	49.6	39.7	27.2	14.9	5.0	5.0
80°	64.5	69.5	71.9	64.5	57.0	44.7	32.2	19.8	9.9	2.4	2.4
82.5°	62.0	71.9	76.9	66.9	57.0	42.1	32.2	19.8	9.9	2.4	2.4
85°	14.9	14.9	22.3	24.8	32.2	34.7	27.2	17.3	7.4	2.4	2.4
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	2.4	2.4	2.4	2.4	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)