

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: P652348

Luminaire Tested: **GALN-SA4B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652348
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-SA4B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 11166.8 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 164
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

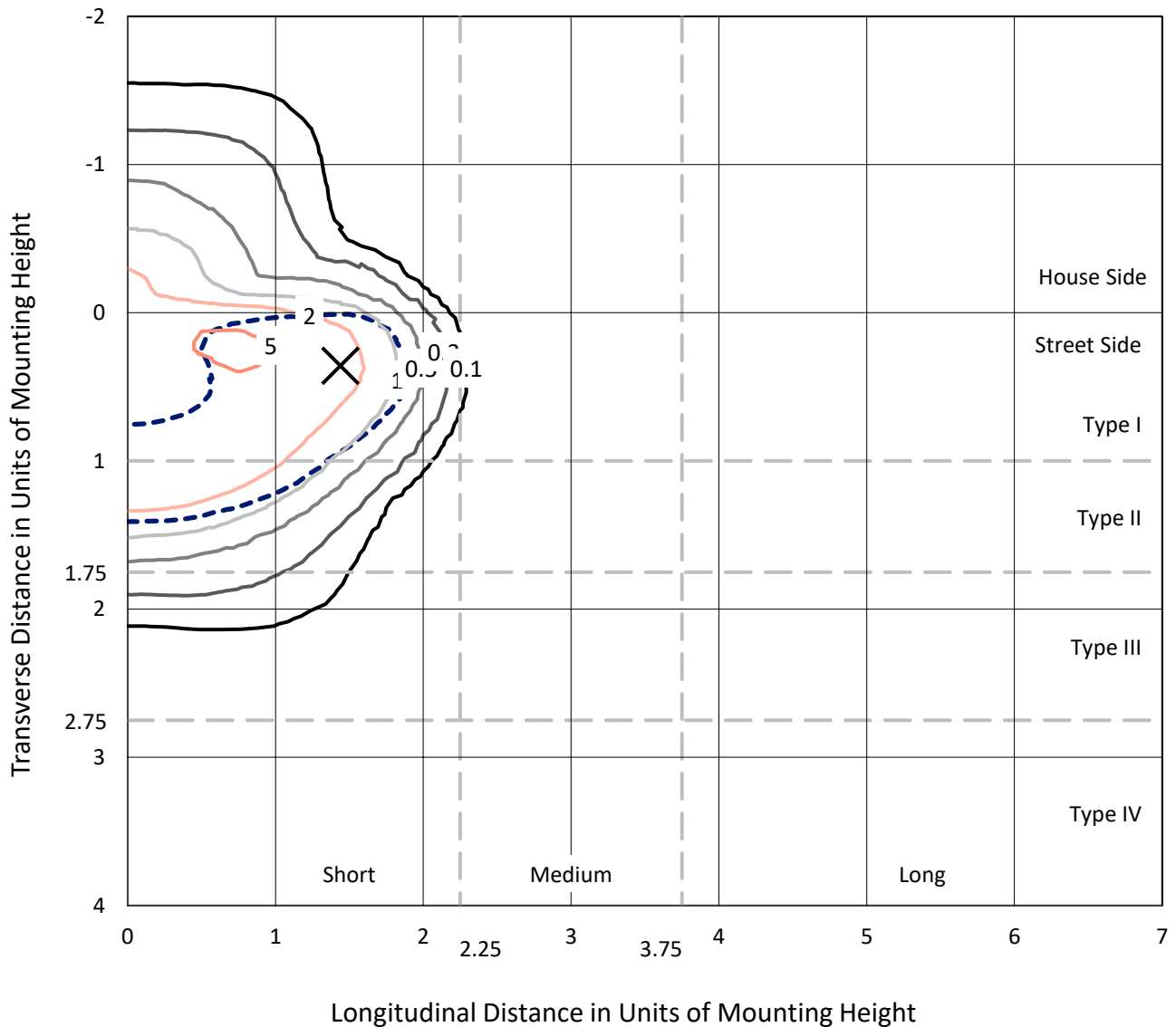




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Iso-Footcandle Lines of Horizontal Illumination

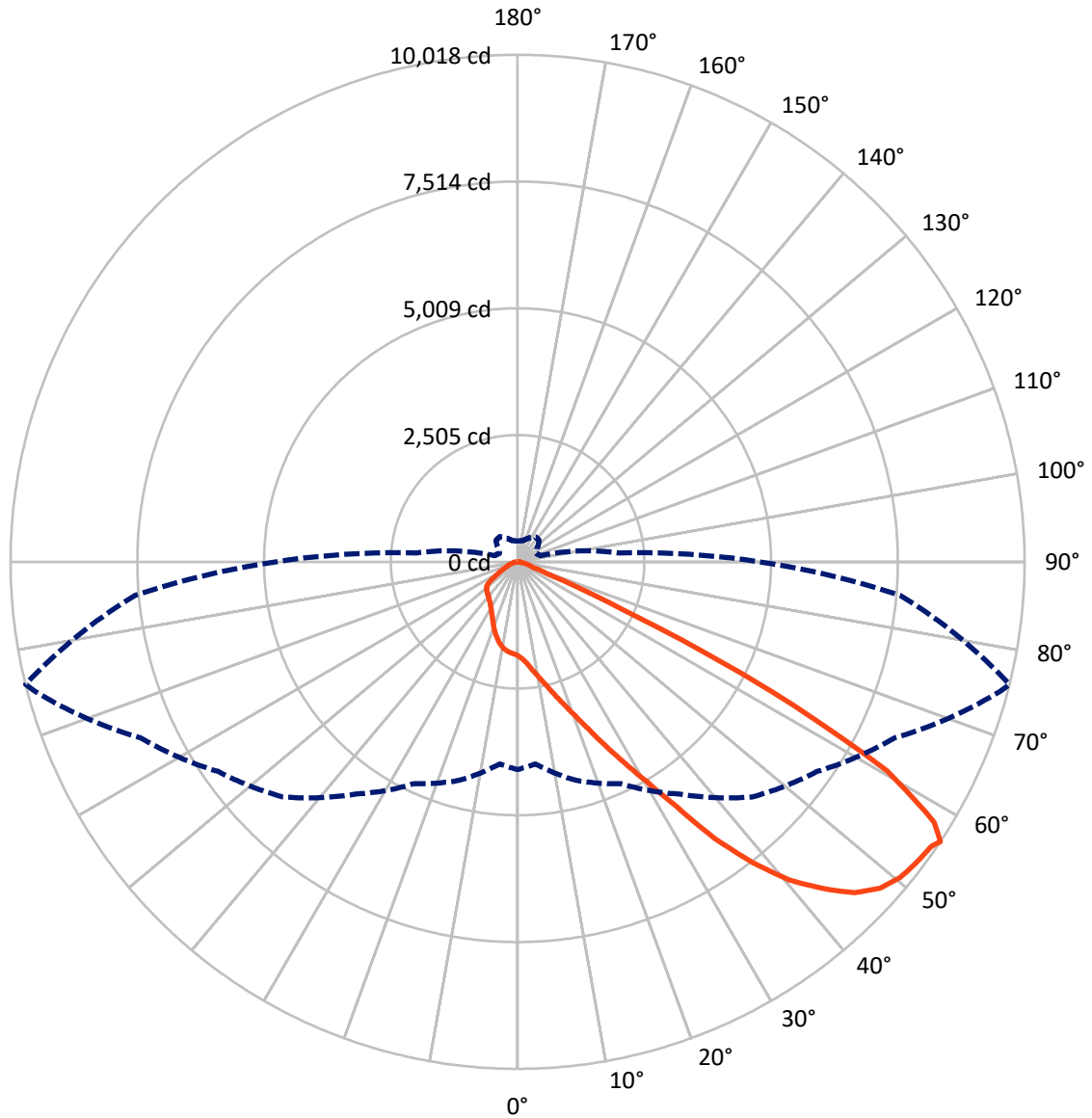
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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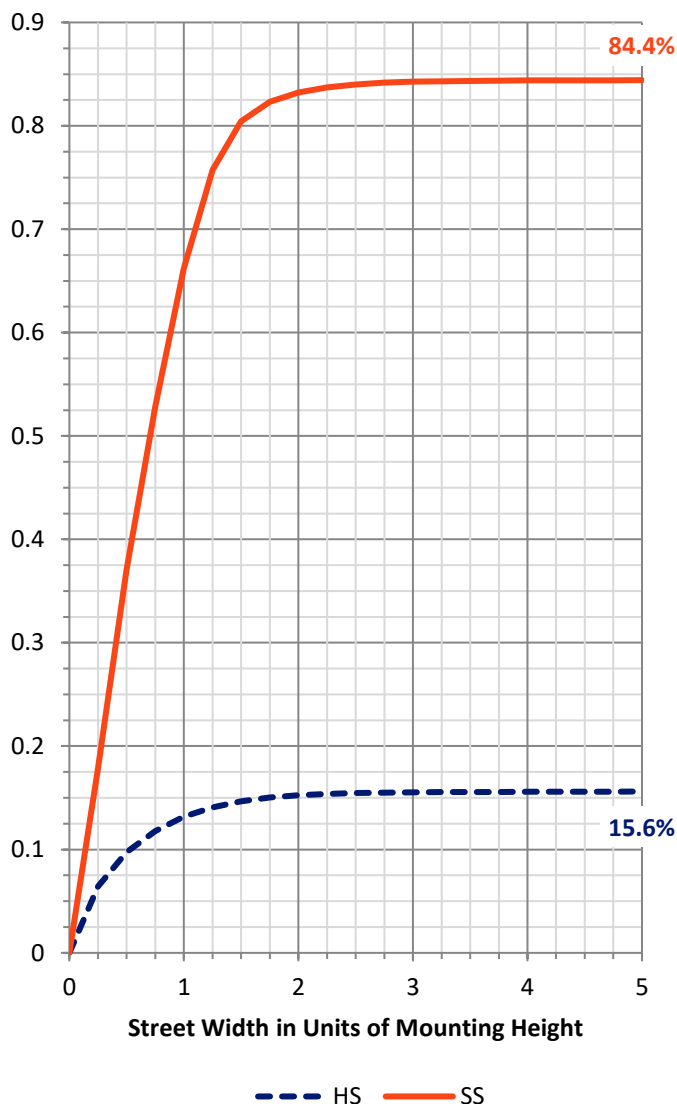
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1754.2	0.0	1754.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	9412.5	0.0	9412.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	11166.8	0.0	11166.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	1.7
10°-20°	601.5	5.4
20°-30°	1090.7	9.8
30°-40°	1881.0	16.8
40°-50°	3055.8	27.4
50°-60°	3220.9	28.8
60°-70°	984.1	8.8
70°-80°	126.2	1.1
80°-90°	19.2	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°	11166.8	100.0
0°-180°	11166.8	100.0

Coefficient of Utilization



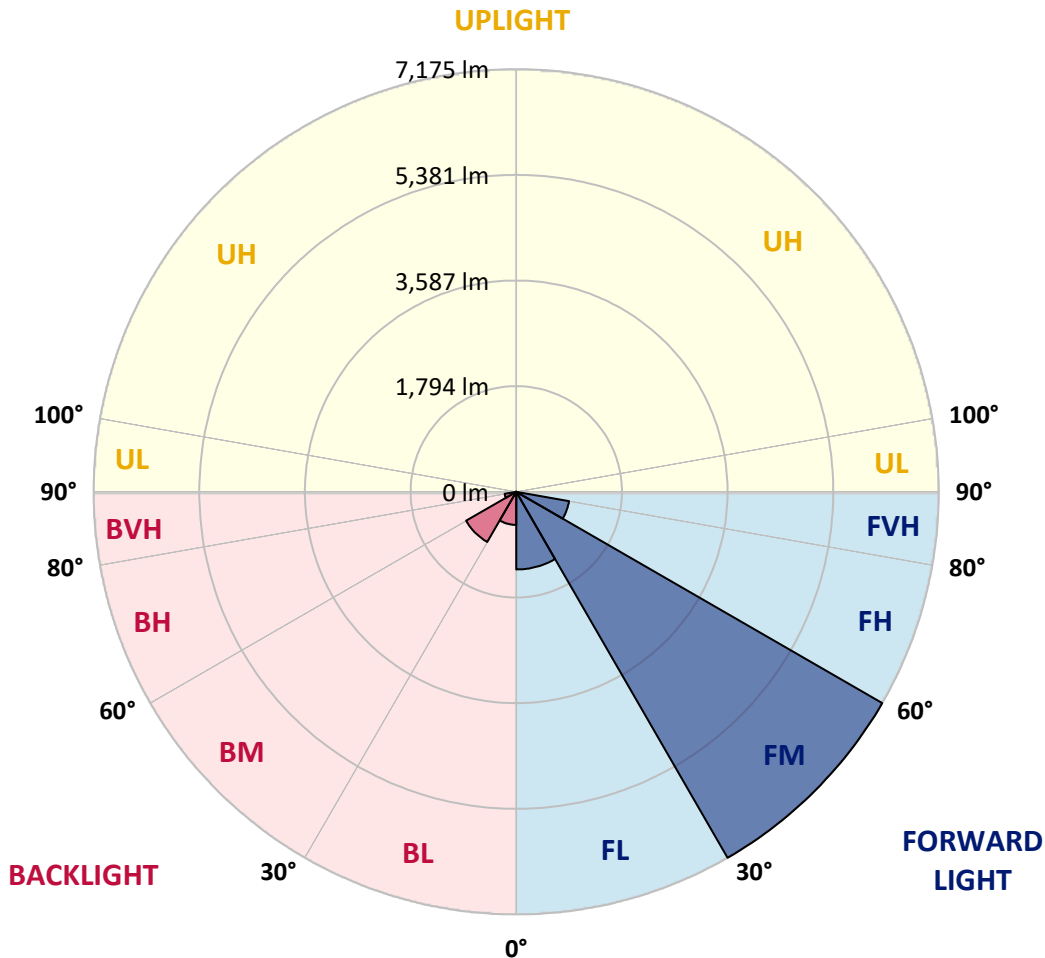
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1318.3	11.8			
FM (30°-60°)	7174.6	64.2			
FH (60°-80°)	910.2	8.2			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	561.2	5.0	B2/1000		
BM (30°-60°)	983.2	8.8	B1/1000		
BH (60°-80°)	200.1	1.8	B1/500		G1/500
BVH (80°-90°)	9.8	0.1			G0/10
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°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	2140.8	2091.3	2093.4	2089.3	2083.1	2060.4	1992.5	1982.2	1937.0	1924.6	1883.4
5°	2398.0	2354.8	2379.5	2342.4	2307.5	2286.8	2175.8	2124.3	2052.2	2025.5	1967.9
7.5°	2558.6	2538.0	2529.7	2531.8	2498.9	2447.4	2398.0	2284.8	2188.1	2167.5	2046.1
10°	2636.8	2624.4	2636.8	2630.6	2645.0	2651.3	2564.8	2496.8	2354.8	2319.8	2130.4
12.5°	2655.3	2680.0	2690.4	2717.1	2752.1	2811.8	2805.6	2713.0	2523.6	2501.0	2260.1
15°	2700.6	2721.2	2710.9	2754.1	2820.0	2920.9	2974.4	2960.0	2756.2	2715.0	2410.4
17.5°	2741.7	2704.7	2739.7	2826.2	2892.0	3046.4	3176.1	3235.8	3009.4	2962.0	2548.3
20°	2797.3	2787.1	2780.9	2824.1	2941.5	3147.3	3404.6	3513.7	3293.4	3244.0	2745.9
22.5°	2966.1	2968.2	2964.1	2900.3	2984.7	3217.2	3604.3	3873.9	3633.0	3591.9	2970.2
25°	3188.5	3161.7	3141.1	3089.7	3079.3	3281.1	3805.9	4314.4	4040.7	4011.8	3213.1
27.5°	3423.1	3423.1	3361.4	3314.0	3248.1	3439.6	3991.2	4742.6	4532.6	4493.5	3425.1
30°	3678.4	3692.7	3684.5	3583.7	3542.5	3612.5	4180.6	5290.1	5096.5	5047.2	3775.1
32.5°	4055.0	4024.2	4059.2	3974.7	3853.3	3915.1	4479.1	5779.9	5829.4	5759.4	4234.1
35°	4553.2	4534.7	4512.0	4374.1	4230.0	4279.4	4901.0	6383.1	6749.4	6714.5	4697.2
37.5°	4999.8	4989.6	4971.0	4876.4	4709.6	4769.3	5380.6	7010.9	7647.0	7531.7	5351.8
40°	5469.2	5524.7	5465.1	5380.6	5228.3	5360.0	5944.6	7383.5	8402.3	8262.4	5852.0
42.5°	6105.2	6062.0	6088.8	5934.3	5852.0	5996.1	6510.7	7756.0	8989.0	8822.3	6383.1
45°	6782.4	6784.4	6712.4	6663.0	6449.0	6605.4	6858.6	7961.8	9456.3	9326.6	6784.4
47.5°	7216.7	7214.7	7292.9	7371.1	7150.9	6996.4	7095.3	8157.4	9697.1	9637.4	6930.6
50°	7148.8	7169.4	7270.3	7562.5	7677.8	7469.9	7317.6	8099.8	9806.2	9800.0	7056.2
52.5°	6218.4	6286.3	6455.1	6877.1	7457.6	7714.8	7550.2	8206.8	9859.7	9870.0	7243.4
55°	4734.3	4771.3	5092.5	5605.0	6247.2	7128.2	7457.6	8291.3	9900.8	9919.4	7469.9
56°	4106.5	4007.7	4470.8	4835.2	5602.9	6566.3	7222.9	8225.3	9876.2	10018.2	7583.1
57.5°	3099.9	3034.1	3408.7	3863.6	4602.5	5619.4	6494.2	7914.6	9709.4	9707.4	7420.5
60°	1885.5	1819.6	2107.8	2375.4	2789.1	3460.1	4388.5	6302.8	8208.9	8381.7	6008.4
62.5°	1121.8	1163.0	1447.0	1609.7	1743.5	1813.4	2270.4	3746.3	5477.3	5600.9	3727.7
65°	747.2	761.6	975.6	1243.3	1303.0	1037.5	924.3	1517.0	2375.4	2299.2	1537.6
67.5°	461.1	494.0	654.6	934.5	1035.4	757.5	438.4	566.1	654.6	654.6	444.6
70°	280.0	296.4	436.4	636.0	710.1	487.9	319.1	319.1	315.0	308.7	265.5
72.5°	133.8	144.1	222.3	327.3	333.5	257.3	247.0	269.6	263.5	261.4	220.3
75°	57.6	61.7	78.2	102.9	117.3	109.1	150.3	193.5	199.7	193.5	158.5
77.5°	18.5	20.6	28.8	37.1	39.1	47.3	63.8	80.3	92.6	86.5	78.2
80°	2.0	4.1	8.2	18.5	28.8	37.1	47.3	53.5	59.7	59.7	55.6
82.5°	2.0	2.0	8.2	16.5	26.7	35.0	45.2	51.5	59.7	61.7	57.6
85°	0.0	2.0	6.1	14.4	22.6	22.6	20.6	20.6	14.4	14.4	14.4
87.5°	0.0	0.0	2.0	2.0	2.0	4.1	4.1	4.1	4.1	4.1	4.1
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°	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7	1858.7
2.5°	1875.2	1871.1	1815.5	1780.5	1762.0	1725.0	1702.3	1685.8	1673.5	1659.0	1661.1
5°	1899.9	1885.5	1792.8	1729.0	1652.9	1611.7	1576.7	1547.9	1529.4	1525.2	1517.0
7.5°	1969.9	1893.8	1753.7	1638.5	1541.7	1500.6	1469.7	1451.1	1459.4	1440.9	1455.3
10°	2023.4	1910.2	1706.4	1539.7	1442.9	1412.0	1395.6	1410.0	1430.6	1422.4	1412.0
12.5°	2089.3	1926.6	1630.3	1445.0	1354.4	1331.8	1360.6	1387.4	1428.5	1445.0	1424.4
15°	2163.4	1945.1	1533.5	1335.9	1278.2	1296.8	1346.2	1393.5	1434.7	1455.3	1467.6
17.5°	2254.0	1939.0	1438.8	1249.5	1206.2	1259.7	1319.4	1362.7	1424.4	1455.3	1447.0
20°	2338.3	1918.4	1333.8	1163.0	1165.0	1214.5	1263.9	1333.8	1366.8	1407.9	1393.5
22.5°	2418.6	1881.4	1224.7	1103.3	1103.3	1179.4	1204.1	1249.5	1278.2	1298.8	1296.8
25°	2531.8	1811.3	1134.2	1045.7	1070.3	1119.8	1140.3	1154.8	1142.4	1158.9	1160.9
27.5°	2612.1	1739.4	1060.1	994.2	1039.5	1076.6	1070.3	1062.1	1033.3	1010.6	1025.1
30°	2698.5	1654.9	996.2	959.2	983.9	1016.9	992.1	967.5	922.2	885.1	887.2
32.5°	2822.1	1615.8	940.7	918.0	951.0	955.1	928.3	891.3	846.0	811.0	809.0
35°	3052.6	1591.2	893.3	891.3	897.4	899.5	872.8	827.5	809.0	780.1	790.5
37.5°	3283.2	1578.8	860.4	852.2	850.1	852.2	821.3	778.1	813.1	811.0	815.1
40°	3577.5	1634.4	813.1	802.7	804.8	804.8	765.7	753.4	815.1	821.3	823.3
42.5°	3875.9	1704.4	782.2	749.2	757.5	757.5	736.9	722.5	765.7	724.5	718.4
45°	4135.3	1807.3	749.2	695.8	716.3	726.6	720.4	695.8	669.0	599.0	599.0
47.5°	4219.7	1897.8	710.1	644.3	660.8	706.0	687.5	636.0	588.7	531.1	527.0
50°	4367.9	1996.6	679.3	584.6	619.6	675.2	656.7	605.2	551.6	510.5	512.5
52.5°	4520.2	2109.8	621.7	514.6	557.8	650.4	650.4	592.8	510.5	481.6	477.5
55°	4748.7	2105.7	518.7	421.9	498.1	613.4	623.7	531.1	457.0	434.3	434.3
56°	4781.7	2011.1	467.3	395.2	471.4	603.1	605.2	514.6	436.4	411.7	411.7
57.5°	4534.7	1815.5	409.7	362.3	438.4	584.6	586.7	500.2	419.9	384.9	380.8
60°	3489.0	1228.9	341.7	323.2	397.3	527.0	537.2	454.9	368.4	341.7	339.6
62.5°	1969.9	681.3	300.5	292.3	341.7	448.8	479.6	397.3	312.9	298.5	302.6
65°	899.5	374.7	253.1	236.7	275.8	345.8	386.9	327.3	257.3	240.9	240.9
67.5°	329.3	255.2	216.1	187.3	193.5	224.4	251.1	212.0	170.8	146.2	152.3
70°	234.6	214.0	189.4	162.6	150.3	146.2	144.1	119.4	84.4	65.9	70.0
72.5°	189.4	177.0	158.5	137.9	117.3	98.8	84.4	61.7	39.1	26.7	24.7
75°	135.8	129.7	115.3	98.8	82.3	70.0	57.6	39.1	20.6	10.3	10.3
77.5°	70.0	70.0	68.0	61.7	51.5	41.2	33.0	22.6	12.4	4.1	4.1
80°	53.5	57.6	59.7	53.5	47.3	37.1	26.7	16.5	8.2	2.0	2.0
82.5°	51.5	59.7	63.8	55.6	47.3	35.0	26.7	16.5	8.2	2.0	2.0
85°	12.4	12.4	18.5	20.6	26.7	28.8	22.6	14.4	6.1	2.0	2.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	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)