

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: P652380

Luminaire Tested: **GALN-SA5B-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24199.8 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

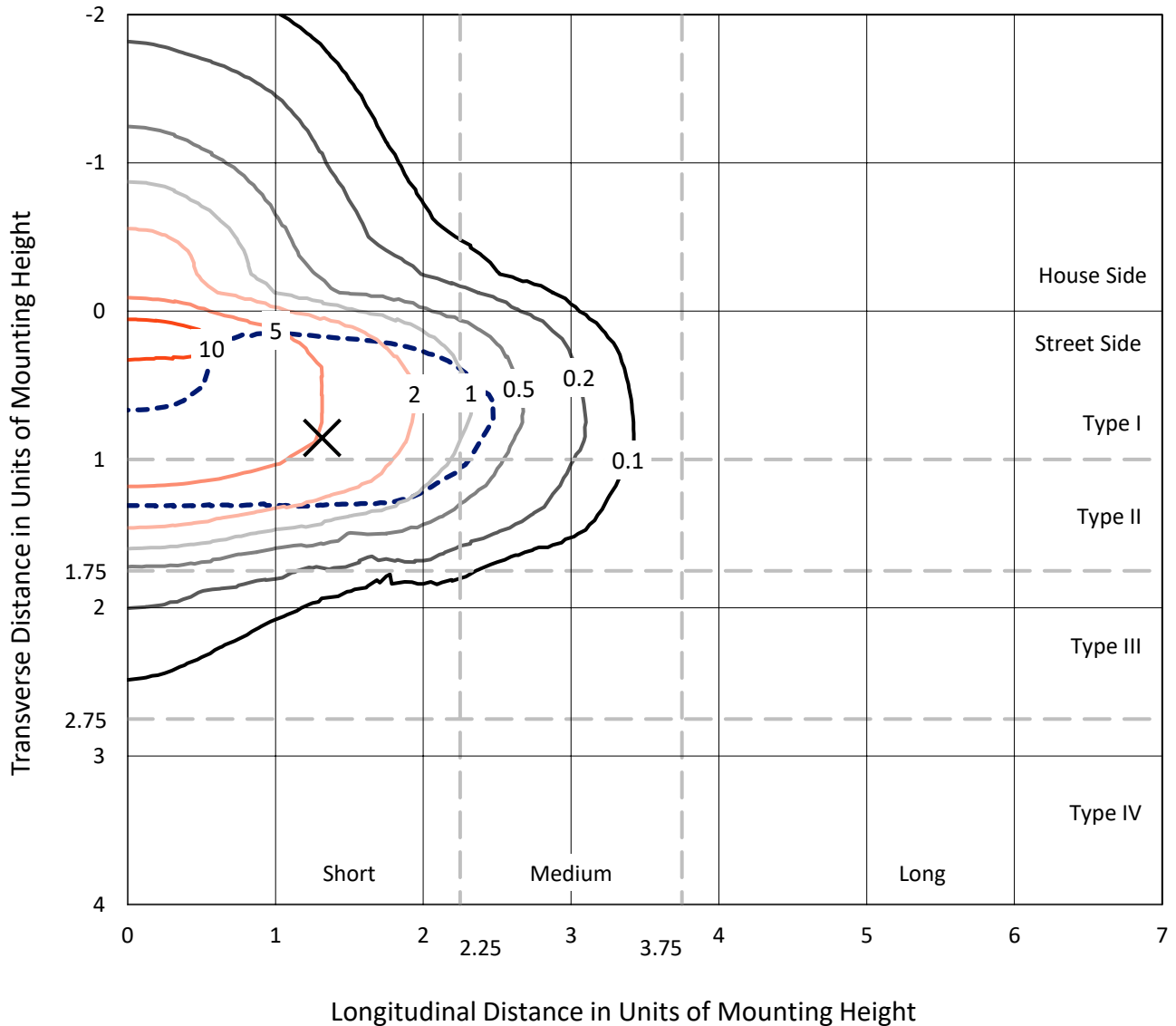
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

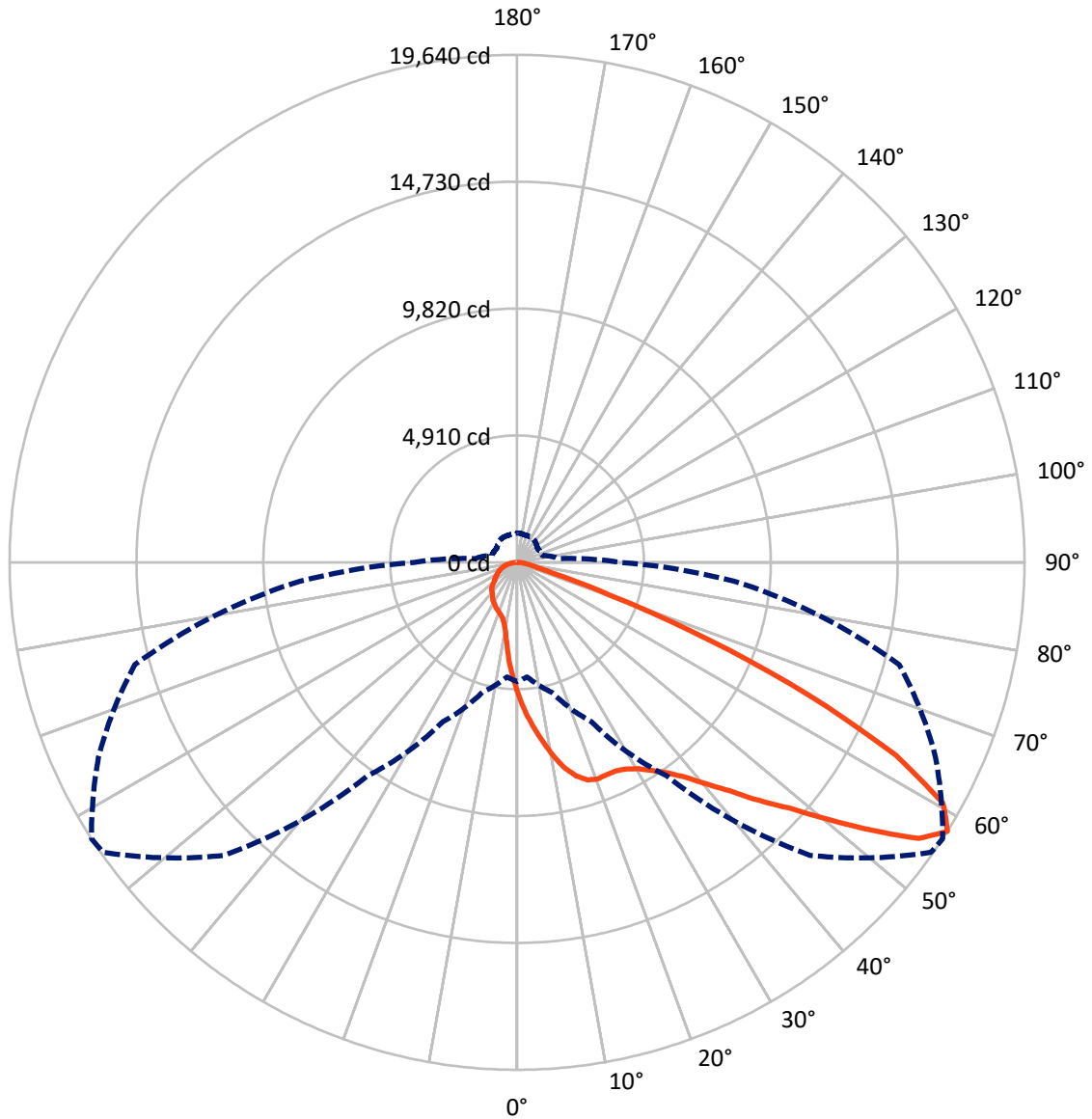
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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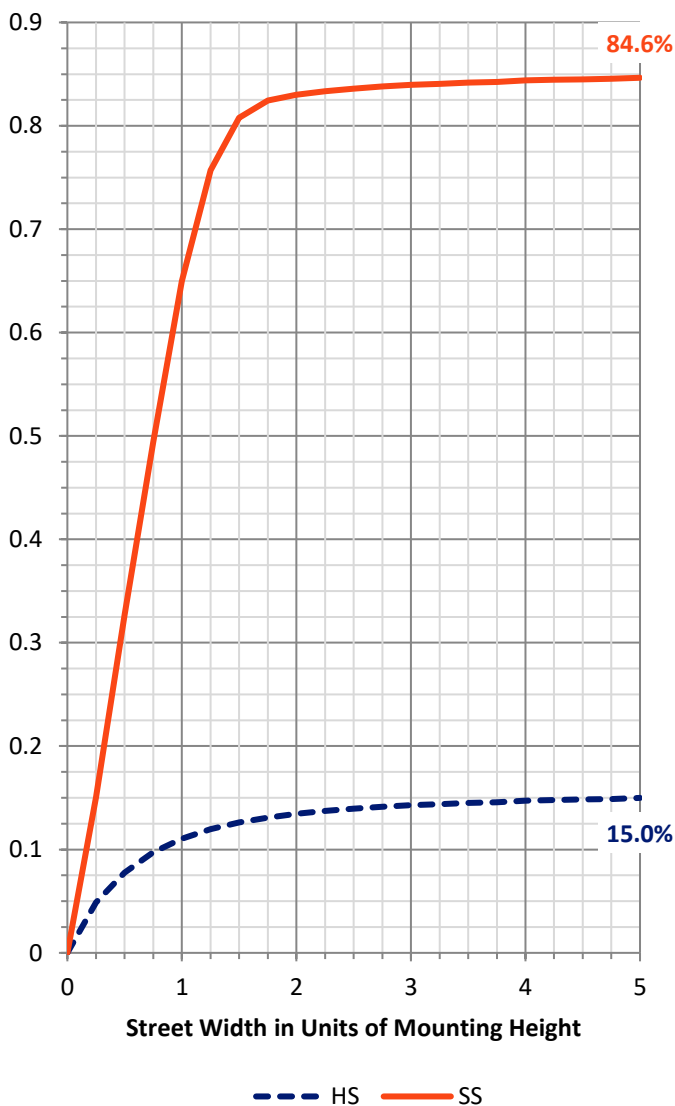
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3680.1	0.0	3680.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	20519.7	0.0	20519.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	24199.8	0.0	24199.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.6	2.0
10°-20°	1440.0	6.0
20°-30°	2391.2	9.9
30°-40°	3601.8	14.9
40°-50°	5407.8	22.3
50°-60°	6061.5	25.0
60°-70°	3547.5	14.7
70°-80°	1049.3	4.3
80°-90°	212.1	0.9
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°	24199.8	100.0
0°-180°	24199.8	100.0

Coefficient of Utilization

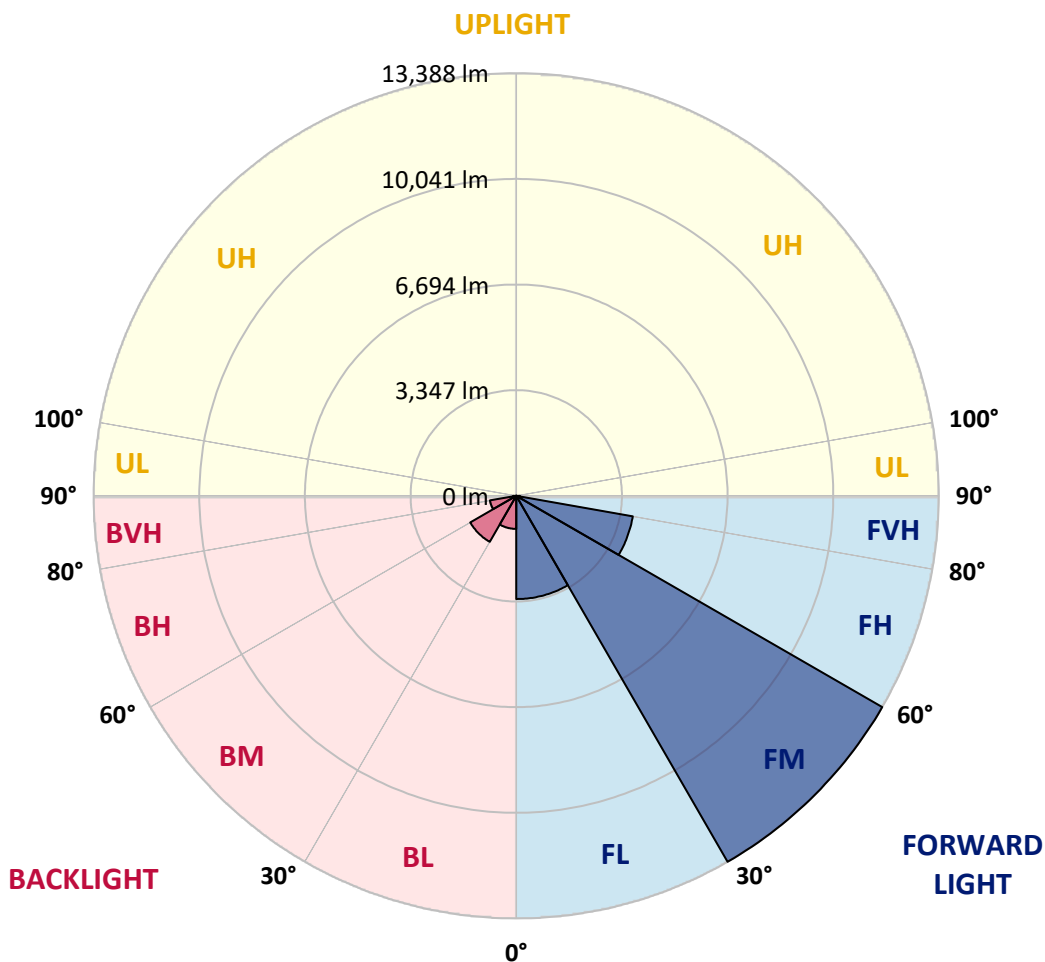


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3271.3	13.5			
FM (30°-60°)	13388.4	55.3			
FH (60°-80°)	3750.0	15.5			G2/5000
FVH (80°-90°)	110.0	0.5			G2/225
BL (0°-30°)	1048.6	4.3	B3/2500		
BM (30°-60°)	1682.7	7.0	B2/2500		
BH (60°-80°)	846.8	3.5	B2/1000		G2/1000
BVH (80°-90°)	102.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1
2.5°	6317.3	6248.5	6194.1	6146.4	6084.2	5916.0	5747.7	5745.1	5611.3	5404.7	5192.8
5°	7346.6	7253.9	7265.8	7117.5	6969.1	6725.4	6369.1	6350.5	6065.7	5678.9	5285.4
7.5°	8016.9	8018.3	7981.2	7896.4	7736.1	7459.2	7055.2	6963.8	6567.7	5980.9	5391.4
10°	7982.5	8018.3	8080.5	8153.3	8202.4	8065.9	7697.7	7586.4	7071.1	6346.5	5509.3
12.5°	7524.2	7579.8	7668.6	7851.3	8146.8	8371.9	8246.1	8156.0	7653.9	6710.8	5639.2
15°	7238.0	7271.1	7320.1	7443.4	7761.3	8300.4	8626.3	8578.6	8203.7	7122.8	5784.8
17.5°	7150.6	7183.7	7199.6	7275.1	7501.6	8054.0	8775.9	8860.8	8691.1	7501.6	5931.9
20°	7238.0	7253.9	7253.9	7299.0	7476.5	7909.6	8769.4	8940.3	9091.2	7956.0	6069.7
22.5°	7467.2	7473.8	7464.5	7480.4	7612.9	7949.4	8707.0	8919.1	9414.5	8341.5	6177.0
25°	7839.4	7850.0	7789.1	7752.0	7848.7	8124.2	8741.5	8936.2	9667.5	8709.7	6248.5
27.5°	8262.0	8275.3	8201.0	8115.0	8160.0	8340.1	8876.7	9051.5	9856.9	9072.7	6293.5
30°	8780.0	8785.3	8660.7	8557.4	8528.2	8662.0	9107.1	9270.1	10092.7	9500.5	6361.1
32.5°	9309.8	9349.6	9189.3	9043.5	8994.5	9035.6	9447.5	9605.2	10373.5	9960.2	6469.7
35°	10030.4	10037.1	9845.0	9667.5	9505.8	9558.8	9883.3	9997.3	10761.6	10491.4	6623.4
37.5°	10929.9	10990.8	10725.9	10394.7	10196.0	10119.2	10410.6	10535.1	11306.1	11143.2	6855.2
40°	11928.7	11951.2	11724.7	11518.0	11155.1	10932.5	11133.9	11269.0	11977.7	11920.8	7124.1
42.5°	12556.6	12605.6	12622.8	12601.6	12328.7	11955.2	12032.0	12095.6	12772.5	12650.7	7399.6
45°	12768.6	12841.4	13087.8	13609.7	13638.8	13270.6	13091.8	13152.7	13638.8	13387.1	7663.3
47.5°	12417.4	12542.0	12996.4	14066.7	14868.1	14896.0	14356.8	14223.0	14428.4	13997.9	7854.0
50°	11510.1	11536.6	12232.0	13781.9	15444.4	16449.8	15892.1	15643.1	15178.1	14449.6	7985.1
52.5°	10106.0	10136.4	10719.2	12458.6	15089.4	17536.0	17688.3	17243.3	15939.8	14800.6	8071.2
55°	7501.6	7677.8	8318.9	10000.0	13407.1	17434.0	19116.4	18863.4	16860.5	15078.8	8206.3
57.5°	4612.5	4450.9	5211.3	6803.5	10083.4	16032.5	19557.5	19639.6	17873.9	15311.9	8432.9
60°	2122.1	2153.9	2467.8	3509.1	6146.4	12542.0	18420.9	18940.2	18434.1	15303.9	8489.8
62.5°	1462.4	1433.3	1353.8	1540.6	2803.0	7932.1	15559.6	16439.2	17310.8	14828.4	8263.3
65°	1307.4	1278.3	1124.7	1072.9	1287.6	3457.4	11311.4	12421.5	14575.4	13628.2	7699.0
67.5°	1221.4	1181.6	1022.7	922.0	919.3	1376.3	6669.7	8006.3	10810.6	11522.0	6671.1
70°	1131.2	1099.4	941.8	830.6	782.9	865.1	2931.5	3837.6	7019.4	8303.0	5196.7
72.5°	1041.2	1004.1	862.4	743.1	680.9	647.7	1123.3	1461.2	3966.1	4978.1	3185.9
75°	910.0	891.5	770.9	673.0	605.4	523.3	712.7	813.3	1897.0	2286.4	1598.9
77.5°	796.1	776.2	684.8	588.2	539.2	425.2	506.0	552.4	800.1	927.3	721.9
80°	582.9	602.7	577.6	519.2	480.9	333.8	340.4	378.9	475.6	525.9	441.1
82.5°	369.6	406.7	445.1	400.1	364.3	263.6	235.8	250.4	324.5	344.4	196.0
85°	155.0	157.6	258.3	243.7	208.0	156.3	141.7	149.7	173.5	181.5	91.4
87.5°	59.6	58.3	91.4	84.8	64.9	45.1	45.1	50.4	68.9	63.6	29.2
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°	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1	5084.1
2.5°	5101.3	5007.2	4820.4	4588.7	4419.1	4228.4	4060.1	3939.6	3894.5	3873.3	3833.6
5°	5097.3	4911.9	4525.1	4119.7	3793.8	3460.0	3177.9	2995.1	2979.2	2857.3	2845.4
7.5°	5098.6	4815.1	4199.2	3603.1	3106.3	2764.6	2531.4	2470.5	2397.7	2379.1	2388.4
10°	5102.6	4692.0	3849.5	3091.8	2611.0	2387.1	2299.6	2275.8	2278.4	2286.4	2287.7
12.5°	5108.0	4572.8	3486.5	2703.6	2332.8	2240.0	2230.8	2251.9	2274.5	2291.7	2295.7
15°	5114.5	4436.4	3132.9	2391.0	2193.7	2185.7	2216.2	2251.9	2283.7	2308.9	2312.9
17.5°	5106.6	4277.4	2836.1	2199.0	2116.8	2155.2	2205.6	2250.6	2279.8	2303.6	2306.3
20°	5088.0	4099.9	2550.0	2063.8	2069.1	2131.4	2185.7	2228.1	2259.9	2271.8	2281.1
22.5°	5016.6	3887.9	2301.0	1959.2	2012.2	2098.3	2163.2	2188.4	2152.6	2127.4	2134.0
25°	4894.7	3612.3	2069.1	1874.4	1960.5	2052.0	2118.1	2057.3	2028.1	2017.5	2022.8
27.5°	4742.3	3310.3	1894.3	1785.7	1894.3	2000.2	1981.7	1971.1	1957.8	1940.6	1944.6
30°	4578.1	3015.0	1745.9	1716.8	1822.8	1883.7	1891.7	1908.8	1894.3	1867.8	1878.4
32.5°	4425.8	2736.8	1633.3	1658.5	1772.4	1763.2	1822.8	1842.6	1775.1	1686.3	1690.2
35°	4295.9	2478.4	1548.5	1601.5	1686.3	1690.2	1749.9	1681.0	1608.2	1565.8	1568.4
37.5°	4197.9	2277.1	1492.9	1552.5	1576.4	1626.7	1594.9	1559.1	1549.9	1520.7	1522.0
40°	4139.6	2100.9	1457.1	1514.1	1510.1	1544.6	1442.6	1478.3	1491.6	1482.3	1483.6
42.5°	4081.3	1976.4	1420.0	1461.2	1459.8	1392.2	1369.7	1400.2	1434.7	1438.6	1435.9
45°	4034.9	1879.7	1381.6	1380.3	1406.8	1300.9	1294.2	1312.7	1361.7	1385.6	1384.3
47.5°	3983.3	1798.9	1323.3	1286.2	1294.2	1243.8	1233.2	1241.2	1300.9	1339.2	1349.8
50°	3918.4	1718.1	1250.5	1200.2	1167.1	1190.9	1193.5	1194.9	1254.4	1298.2	1307.4
52.5°	3866.7	1657.2	1167.1	1130.0	1090.2	1143.2	1163.1	1165.7	1201.5	1237.3	1243.8
55°	3897.2	1622.7	1084.9	1058.4	1022.7	1094.1	1132.6	1137.9	1145.9	1172.4	1176.3
57.5°	3988.6	1630.7	1018.7	984.2	957.7	1035.9	1100.8	1104.7	1099.4	1131.2	1136.6
60°	4016.4	1626.7	969.7	902.1	886.2	973.6	1054.4	1062.4	1061.1	1107.4	1116.7
62.5°	3899.8	1576.4	920.6	833.2	822.6	910.0	989.5	1021.3	1028.0	1094.1	1106.1
65°	3625.6	1473.0	855.7	760.3	760.3	842.5	927.3	971.0	989.5	1078.2	1091.5
67.5°	3264.0	1351.2	789.5	698.1	695.4	777.6	861.0	906.1	935.2	1055.8	1063.7
70°	2708.9	1186.9	707.4	630.6	630.6	704.8	780.2	834.5	876.9	1013.4	1013.4
72.5°	1855.8	986.9	608.0	553.7	555.1	623.9	700.7	761.7	812.0	928.6	931.2
75°	1173.7	770.9	499.4	471.5	476.8	541.8	621.2	684.8	785.5	918.0	922.0
77.5°	623.9	541.8	397.4	390.8	397.4	457.0	545.7	633.2	788.2	796.1	782.9
80°	404.0	384.2	313.9	300.7	303.3	368.3	486.2	601.4	633.2	641.2	612.0
82.5°	219.9	243.7	222.5	209.3	209.3	287.5	414.6	478.2	454.4	377.5	360.3
85°	94.0	114.0	115.2	100.7	96.7	177.5	278.2	261.0	242.4	231.8	229.2
87.5°	26.5	37.1	37.1	27.8	21.2	49.0	55.7	15.9	0.0	1.3	2.7
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)