

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: P648090

Luminaire Tested: **GALN-SA8A-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648090
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-SA8A-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29198.1 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

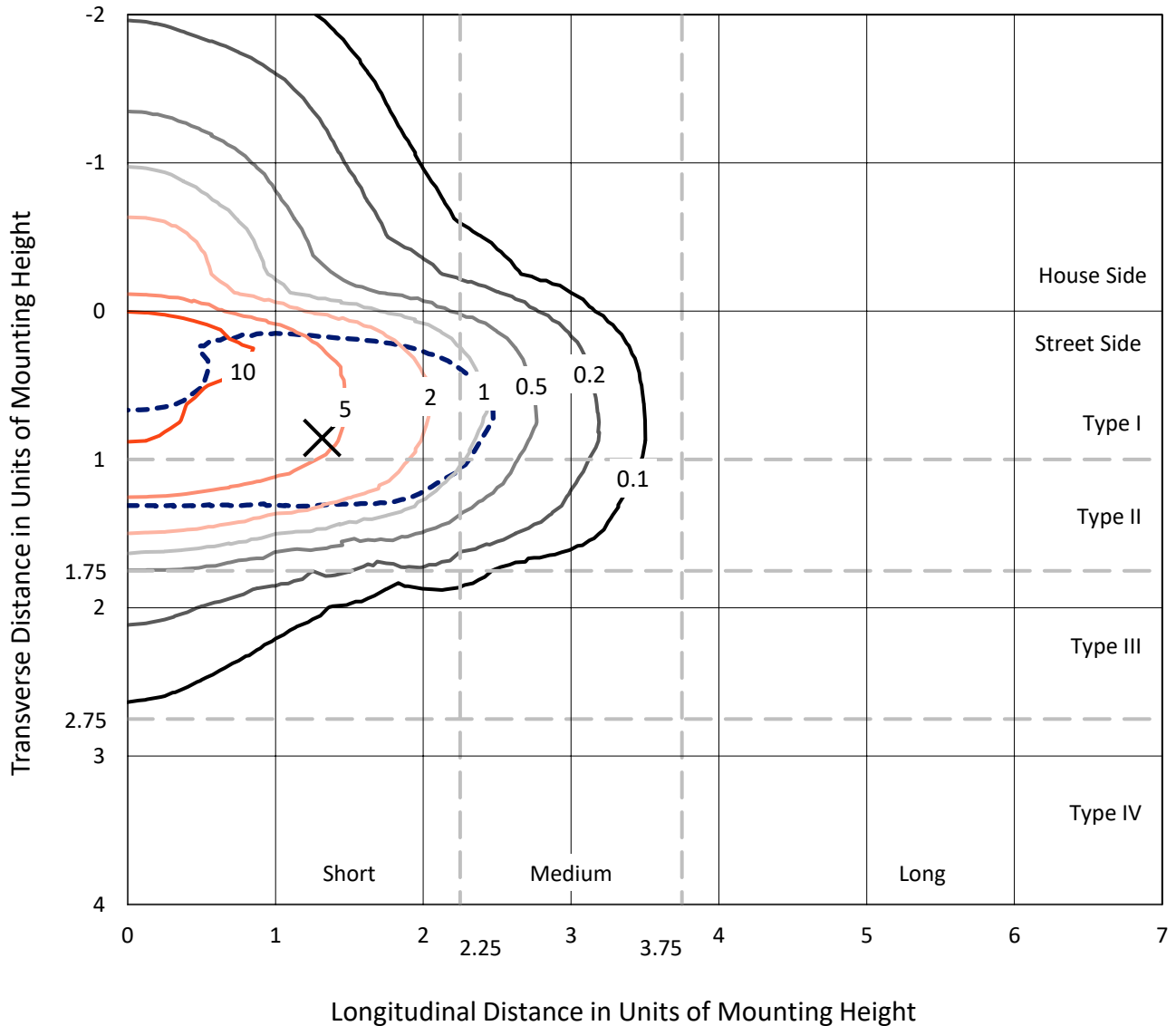
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

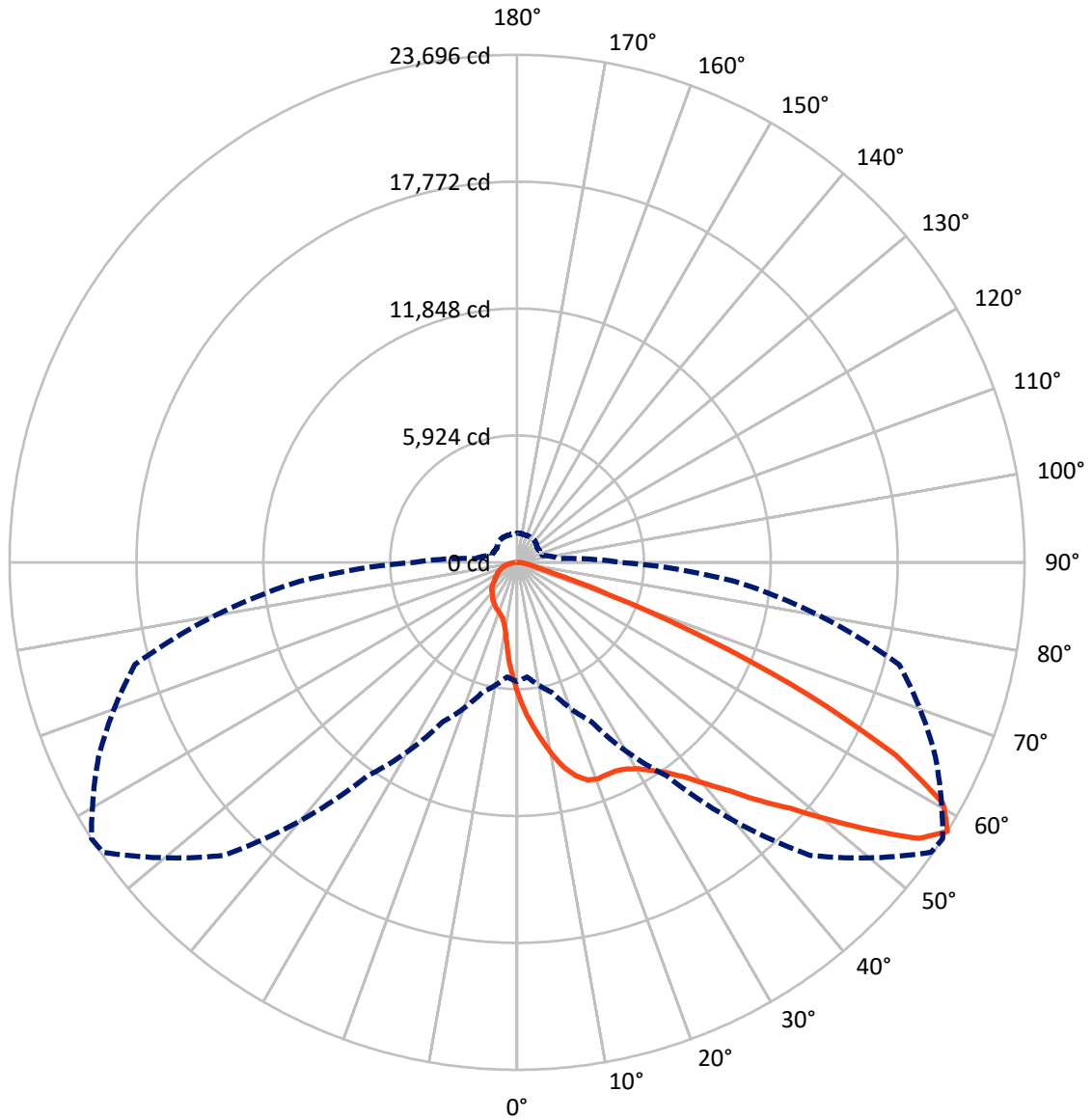
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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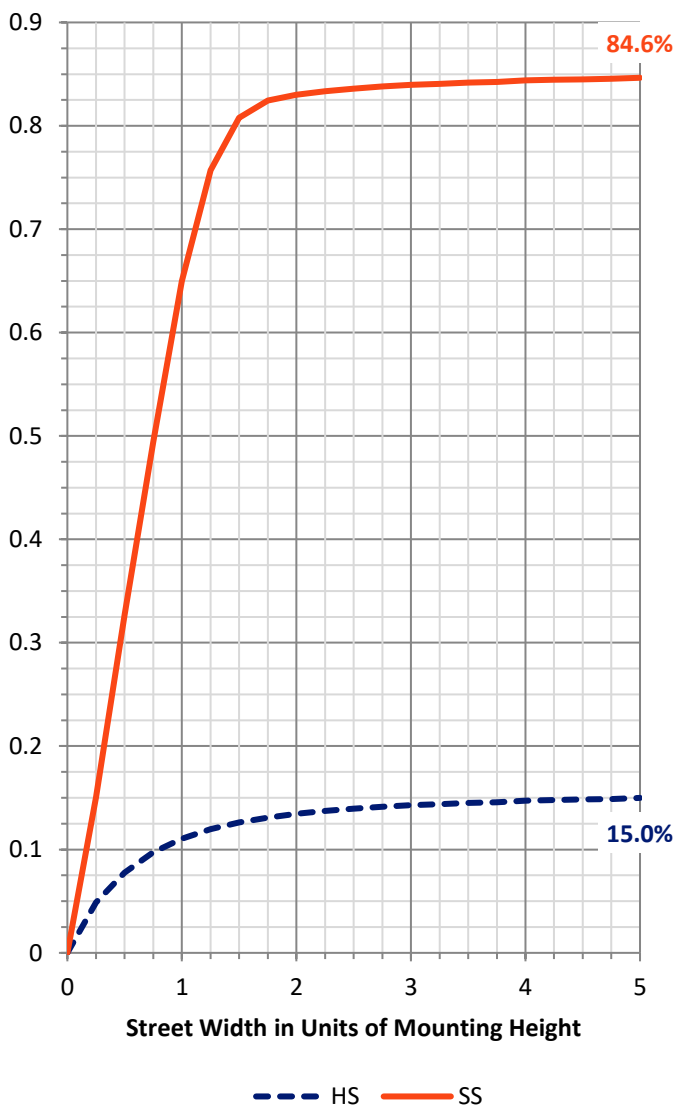
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4440.2	0.0	4440.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	24757.9	0.0	24757.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	29198.1	0.0	29198.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.6	2.0
10°-20°	1737.5	6.0
20°-30°	2885.1	9.9
30°-40°	4345.8	14.9
40°-50°	6524.7	22.3
50°-60°	7313.4	25.0
60°-70°	4280.2	14.7
70°-80°	1266.0	4.3
80°-90°	255.9	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°	29198.1	100.0
0°-180°	29198.1	100.0

Coefficient of Utilization

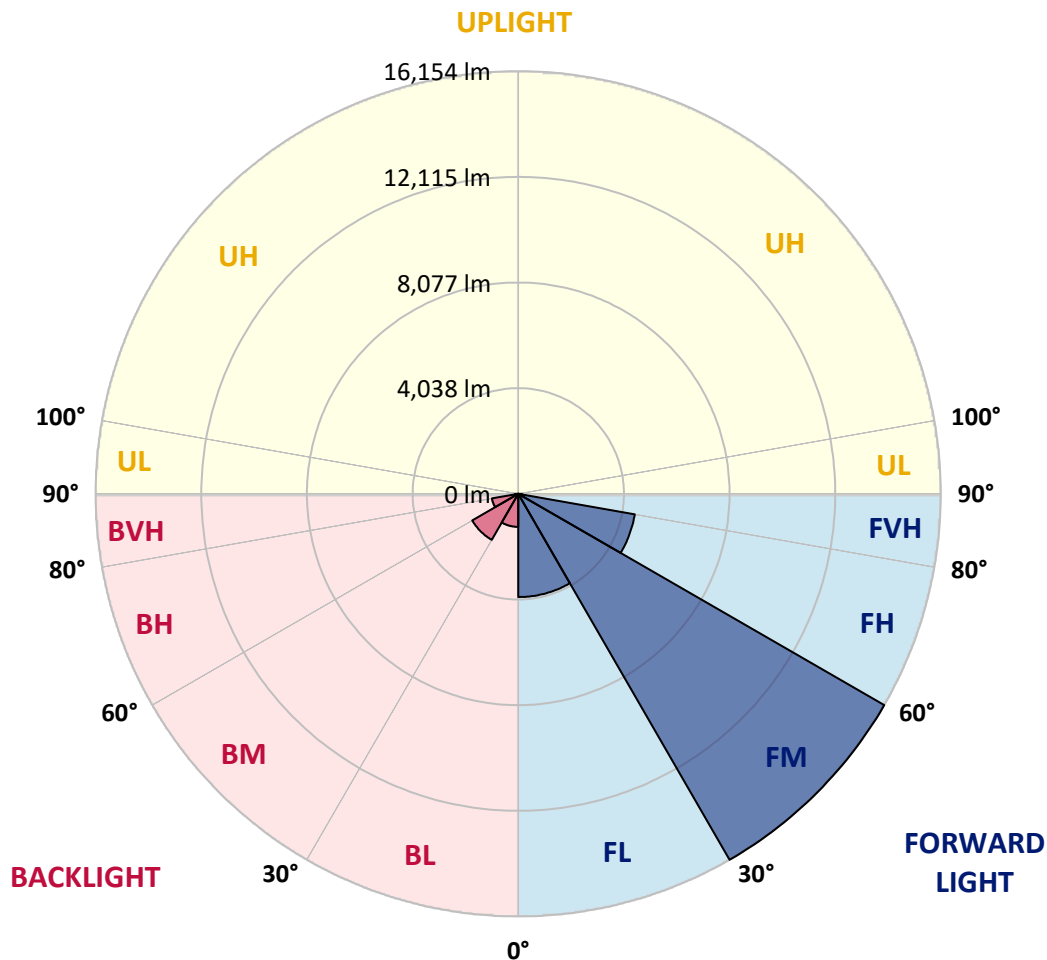


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3946.9	13.5			
FM (30°-60°)	16153.7	55.3			
FH (60°-80°)	4524.5	15.5			G2/5000
FVH (80°-90°)	132.8	0.5			G2/225
BL (0°-30°)	1265.2	4.3	B3/2500		
BM (30°-60°)	2030.2	7.0	B2/2500		
BH (60°-80°)	1021.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	123.1	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2
2.5°	7622.2	7539.0	7473.5	7416.0	7340.9	7137.9	6935.0	6931.7	6770.3	6521.0	6265.3
5°	8864.0	8752.1	8766.5	8587.6	8408.6	8114.5	7684.5	7662.1	7318.5	6851.8	6377.1
7.5°	9672.8	9674.4	9629.6	9527.3	9333.9	8999.9	8512.4	8402.1	7924.3	7216.2	6505.0
10°	9631.2	9674.4	9749.4	9837.4	9896.5	9731.9	9287.6	9153.3	8531.6	7657.3	6647.2
12.5°	9078.2	9145.4	9252.4	9473.0	9829.4	10101.1	9949.3	9840.6	9234.9	8096.8	6803.9
15°	8733.0	8773.0	8832.1	8980.7	9364.3	10014.8	10407.9	10350.4	9898.1	8593.9	6979.7
17.5°	8627.5	8667.4	8686.6	8777.7	9051.0	9717.5	10588.6	10690.8	10486.2	9051.0	7157.1
20°	8733.0	8752.1	8752.1	8806.5	9020.6	9543.3	10580.6	10786.8	10969.0	9599.3	7323.3
22.5°	9009.5	9017.5	9006.3	9025.5	9185.3	9591.3	10505.4	10761.2	11359.0	10064.4	7452.8
25°	9458.6	9471.4	9397.9	9353.1	9469.8	9802.2	10547.0	10782.0	11664.2	10508.6	7539.0
27.5°	9968.5	9984.4	9894.9	9791.0	9845.4	10062.7	10710.0	10921.0	11892.8	10946.6	7593.4
30°	10593.4	10599.8	10449.5	10324.9	10289.7	10451.1	10988.2	11184.8	12177.3	11462.8	7674.9
32.5°	11232.7	11280.6	11087.2	10911.4	10852.3	10901.9	11398.9	11589.1	12516.1	12017.4	7806.0
35°	12102.1	12110.1	11878.3	11664.2	11469.2	11533.1	11924.7	12062.2	12984.4	12658.4	7991.4
37.5°	13187.4	13260.9	12941.3	12541.7	12301.9	12209.2	12560.8	12711.1	13641.3	13444.7	8271.1
40°	14392.5	14419.6	14146.3	13897.0	13459.1	13190.6	13433.5	13596.6	14451.6	14382.8	8595.5
42.5°	15150.0	15209.1	15230.0	15204.4	14875.1	14424.4	14517.1	14593.9	15410.5	15263.6	8928.0
45°	15405.8	15493.7	15791.0	16420.7	16455.8	16011.5	15795.8	15869.3	16455.8	16152.2	9246.1
47.5°	14982.2	15132.5	15680.7	16972.1	17939.1	17972.6	17322.1	17160.7	17408.4	16889.0	9476.2
50°	13887.4	13919.4	14758.5	16628.5	18634.3	19847.4	19174.5	18874.1	18313.0	17434.0	9634.4
52.5°	12193.3	12230.0	12933.3	15031.8	18205.9	21158.0	21341.8	20804.8	19232.0	17857.6	9738.3
55°	9051.0	9263.6	10037.2	12065.4	16176.2	21034.9	23064.7	22759.5	20342.8	18193.2	9901.3
57.5°	5565.2	5370.2	6287.6	8208.7	12166.1	19343.9	23597.0	23696.0	21565.5	18474.5	10174.6
60°	2560.4	2598.8	2977.6	4233.8	7416.0	15132.5	22225.6	22852.2	22241.6	18464.9	10243.4
62.5°	1764.5	1729.3	1633.4	1858.8	3381.9	9570.5	18773.4	19834.6	20886.3	17891.1	9970.0
65°	1577.5	1542.4	1356.9	1294.6	1553.6	4171.5	13647.7	14987.0	17585.8	16443.1	9289.2
67.5°	1473.6	1425.7	1233.9	1112.4	1109.2	1660.6	8047.3	9659.9	13043.5	13901.8	8048.9
70°	1364.9	1326.6	1136.4	1002.1	944.6	1043.7	3537.0	4630.2	8469.2	10018.0	6270.0
72.5°	1256.2	1211.5	1040.5	896.6	821.5	781.6	1355.4	1762.9	4785.2	6006.3	3843.8
75°	1098.0	1075.6	930.2	811.9	730.4	631.3	859.9	981.3	2288.7	2758.6	1929.2
77.5°	960.6	936.6	826.3	709.6	650.5	513.0	610.5	666.5	965.4	1118.8	871.1
80°	703.2	727.3	696.9	626.6	580.2	402.8	410.8	457.1	573.8	634.5	532.2
82.5°	445.9	490.7	537.0	482.6	439.5	318.1	284.5	302.1	391.6	415.5	236.5
85°	187.0	190.2	311.6	294.1	251.0	188.6	171.0	180.6	209.4	218.9	110.2
87.5°	72.0	70.3	110.2	102.3	78.3	54.3	54.3	60.8	83.1	76.7	35.2
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°	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2	6134.2
2.5°	6154.9	6041.5	5816.1	5536.4	5331.8	5101.7	4898.7	4753.3	4698.9	4673.3	4625.4
5°	6150.2	5926.4	5459.7	4970.6	4577.5	4174.7	3834.3	3613.7	3594.5	3447.5	3433.1
7.5°	6151.8	5809.7	5066.6	4347.3	3748.0	3335.6	3054.3	2980.8	2892.9	2870.5	2881.7
10°	6156.6	5661.1	4644.6	3730.4	3150.2	2880.1	2774.6	2745.8	2749.0	2758.6	2760.2
12.5°	6162.9	5517.3	4206.7	3262.1	2814.6	2702.7	2691.5	2717.1	2744.3	2765.0	2769.8
15°	6171.0	5352.6	3779.9	2884.9	2646.8	2637.1	2673.9	2717.1	2755.5	2785.8	2790.6
17.5°	6161.3	5160.8	3421.9	2653.1	2554.1	2600.4	2661.1	2715.4	2750.6	2779.4	2782.6
20°	6139.0	4946.7	3076.6	2490.1	2496.5	2571.6	2637.1	2688.3	2726.6	2741.0	2752.2
22.5°	6052.7	4691.0	2776.2	2363.9	2427.8	2531.7	2610.0	2640.4	2597.2	2566.8	2574.8
25°	5905.6	4358.5	2496.5	2261.5	2365.4	2475.7	2555.6	2482.1	2447.0	2434.2	2440.5
27.5°	5721.9	3994.1	2285.5	2154.5	2285.5	2413.4	2391.0	2378.2	2362.2	2341.5	2346.3
30°	5523.7	3637.7	2106.5	2071.3	2199.2	2272.7	2282.4	2303.1	2285.5	2253.6	2266.3
32.5°	5339.8	3302.1	1970.7	2001.0	2138.5	2127.3	2199.2	2223.2	2141.7	2034.6	2039.4
35°	5183.2	2990.4	1868.4	1932.3	2034.6	2039.4	2111.4	2028.2	1940.3	1889.1	1892.4
37.5°	5064.9	2747.5	1801.3	1873.2	1902.0	1962.7	1924.3	1881.2	1870.0	1834.8	1836.4
40°	4994.6	2534.9	1758.1	1826.8	1822.0	1863.6	1740.5	1783.7	1799.6	1788.5	1790.1
42.5°	4924.3	2384.6	1713.4	1762.9	1761.3	1679.8	1652.6	1689.4	1730.9	1735.8	1732.5
45°	4868.4	2268.0	1667.0	1665.4	1697.4	1569.5	1561.5	1583.9	1643.0	1671.8	1670.2
47.5°	4806.0	2170.5	1596.7	1551.9	1561.5	1500.8	1488.0	1497.6	1569.5	1615.9	1628.6
50°	4727.7	2073.0	1508.8	1448.0	1408.1	1436.9	1440.0	1441.7	1513.5	1566.3	1577.5
52.5°	4665.3	1999.5	1408.1	1363.4	1315.4	1379.3	1403.3	1406.5	1449.6	1492.8	1500.8
55°	4702.1	1957.9	1309.0	1277.0	1233.9	1320.1	1366.5	1372.9	1382.5	1414.5	1419.3
57.5°	4812.4	1967.4	1229.1	1187.5	1155.6	1249.8	1328.2	1333.0	1326.6	1364.9	1371.3
60°	4846.0	1962.7	1170.0	1088.4	1069.3	1174.7	1272.2	1281.8	1280.2	1336.2	1347.3
62.5°	4705.4	1902.0	1110.8	1005.3	992.5	1098.0	1193.9	1232.3	1240.3	1320.1	1334.5
65°	4374.5	1777.3	1032.5	917.4	917.4	1016.5	1118.8	1171.5	1193.9	1301.0	1317.0
67.5°	3938.2	1630.2	952.6	842.3	839.1	938.2	1038.9	1093.2	1128.4	1273.9	1283.4
70°	3268.5	1432.0	853.5	760.8	760.8	850.3	941.4	1006.9	1058.1	1222.7	1222.7
72.5°	2239.1	1190.7	733.6	668.1	669.7	752.8	845.5	919.0	979.8	1120.4	1123.6
75°	1416.1	930.2	602.5	569.0	575.3	653.7	749.6	826.3	947.7	1107.6	1112.4
77.5°	752.8	653.7	479.5	471.5	479.5	551.4	658.5	764.0	951.0	960.6	944.6
80°	487.5	463.5	378.8	362.8	366.0	444.4	586.5	725.6	764.0	773.6	738.4
82.5°	265.3	294.1	268.5	252.5	252.5	346.8	500.3	577.0	548.2	455.5	434.7
85°	113.5	137.4	139.1	121.4	116.7	214.2	335.7	314.8	292.5	279.7	276.5
87.5°	31.9	44.8	44.8	33.6	25.6	59.1	67.1	19.2	0.0	1.6	3.2
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)