

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: P652079

Luminaire Tested: **GALN-SA8A-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31650.2 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

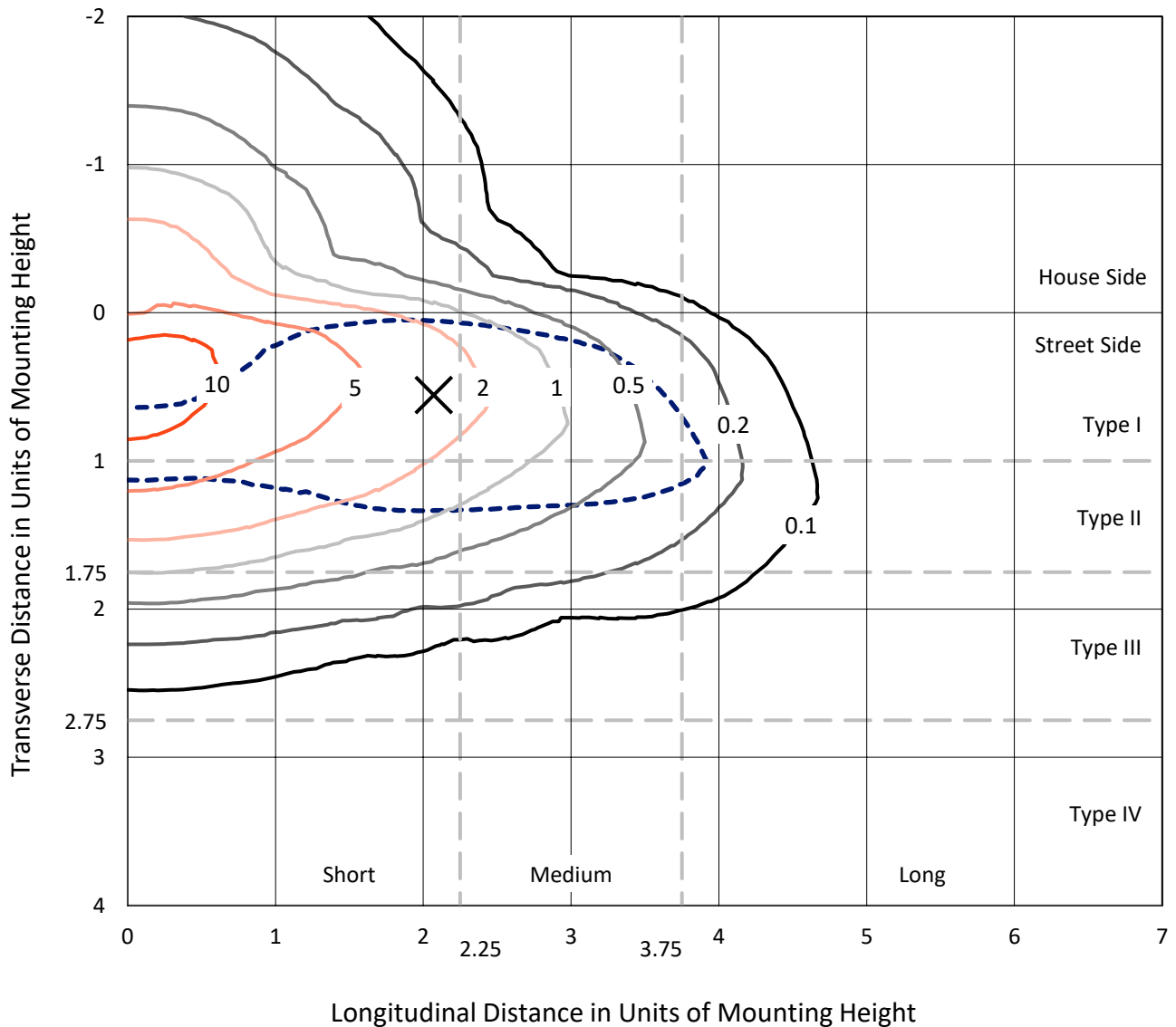
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

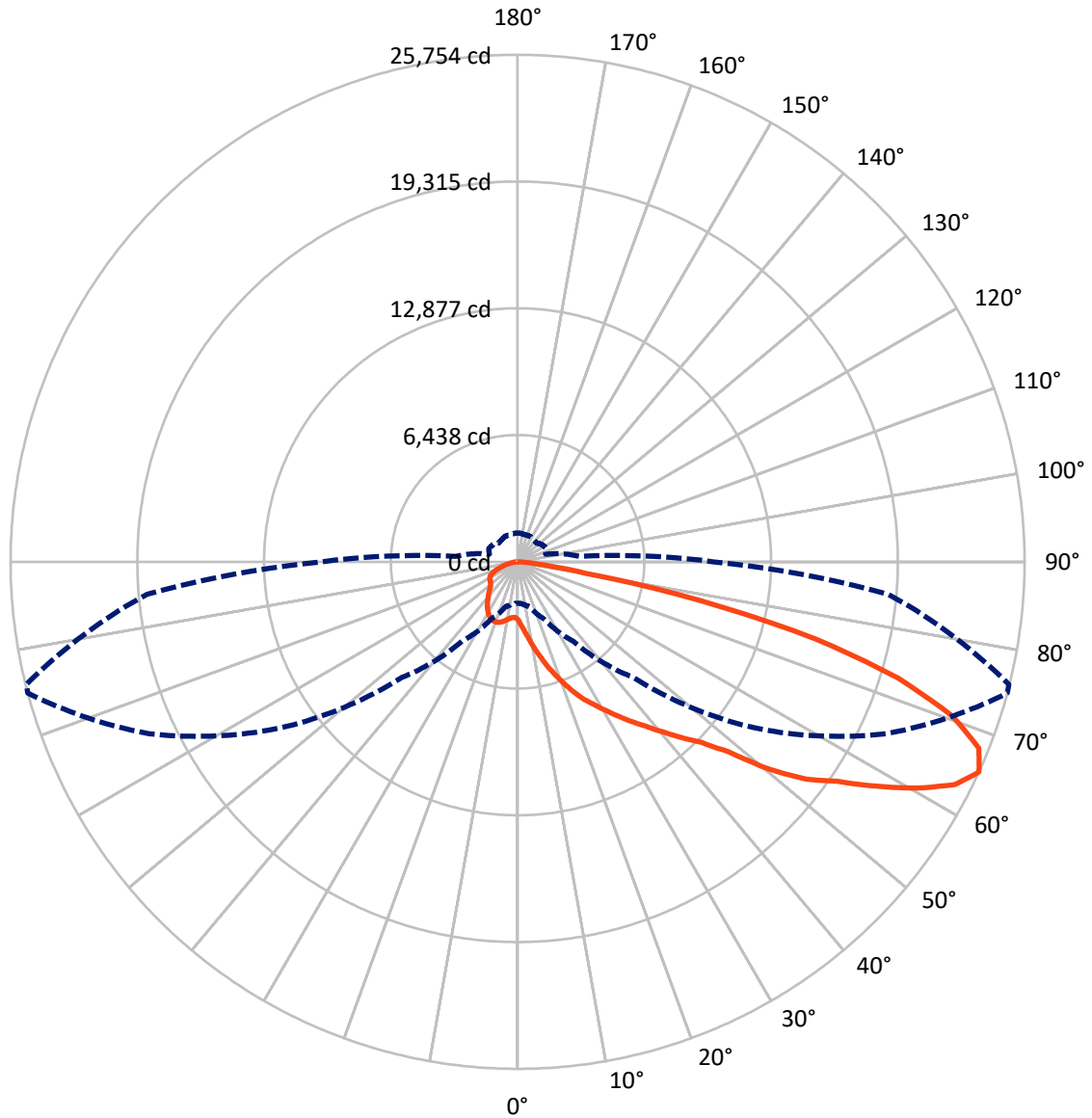
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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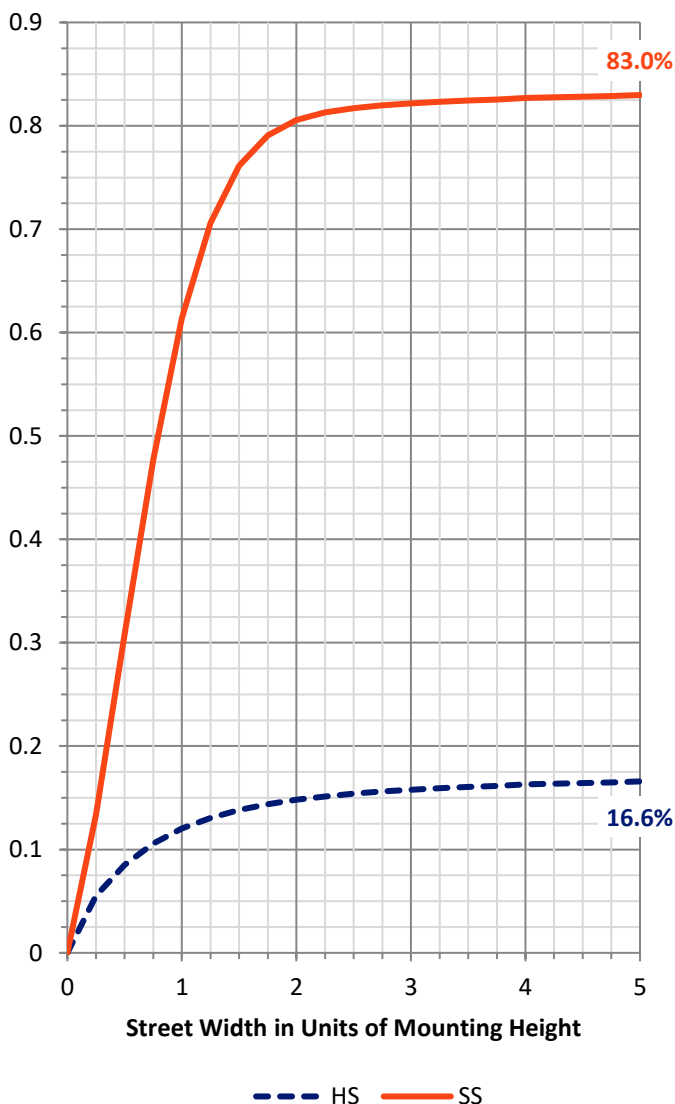
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5320.8	0.0	5320.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	26329.4	0.0	26329.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	31650.2	0.0	31650.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.1
10°-20°	1399.4	4.4
20°-30°	2703.2	8.5
30°-40°	4390.9	13.9
40°-50°	6040.1	19.1
50°-60°	7131.3	22.5
60°-70°	6248.2	19.7
70°-80°	2982.9	9.4
80°-90°	396.9	1.3
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°	31650.2	100.0
0°-180°	31650.2	100.0

Coefficient of Utilization



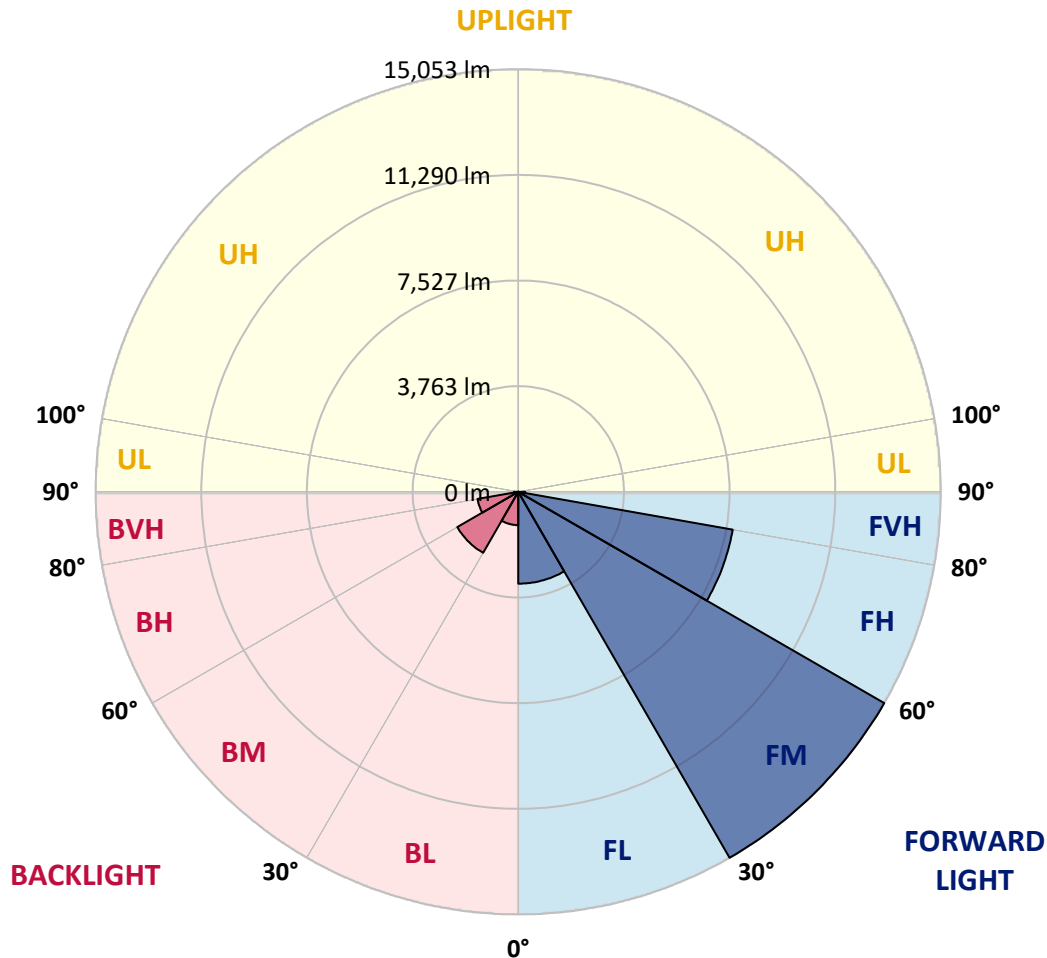
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3272.1	10.3			
FM (30°-60°)	15053.5	47.6			
FH (60°-80°)	7755.7	24.5			G4/12000
FVH (80°-90°)	248.0	0.8			G3/500
BL (0°-30°)	1187.9	3.8	B3/2500		
BM (30°-60°)	2508.7	7.9	B3/5000		
BH (60°-80°)	1475.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	148.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7
2.5°	3907.2	3881.5	3854.0	3778.4	3697.8	3606.8	3476.3	3351.0	3184.4	3179.3	3055.7
5°	4990.4	4973.3	4851.4	4781.0	4593.9	4344.9	4133.8	3805.9	3502.1	3466.0	3225.7
7.5°	5986.2	5919.2	5872.8	5745.8	5560.4	5241.1	4832.5	4389.6	3881.5	3833.4	3435.1
10°	6736.3	6729.4	6705.5	6595.5	6456.5	6138.9	5685.7	5050.5	4362.1	4267.7	3689.2
12.5°	7297.7	7302.8	7299.4	7297.7	7198.1	6928.6	6437.6	5768.1	4847.9	4781.0	3982.7
15°	7666.8	7718.3	7738.9	7824.7	7833.3	7653.0	7230.7	6461.7	5395.6	5296.0	4298.6
17.5°	7910.5	7936.3	8032.4	8178.4	8296.8	8264.2	7888.2	7103.7	5955.2	5788.7	4626.5
20°	8144.0	8188.6	8262.5	8461.6	8671.0	8767.2	8502.8	7761.2	6509.7	6403.3	4988.7
22.5°	8629.8	8693.3	8719.1	8820.4	8999.0	9168.9	9048.7	8391.2	7117.5	6973.2	5373.2
25°	9452.2	9519.1	9447.0	9423.0	9481.3	9565.4	9539.7	8985.2	7690.8	7484.8	5737.2
27.5°	10523.3	10531.9	10391.1	10257.3	10113.0	10070.1	9991.2	9512.2	8188.6	8017.0	6102.9
30°	11673.6	11632.4	11398.8	11156.8	10913.1	10672.7	10446.1	10020.3	8743.1	8545.7	6461.7
32.5°	12741.3	12719.0	12459.8	12083.8	11671.8	11445.3	10986.8	10533.7	9337.1	9146.5	6830.8
35°	13541.3	13573.9	13289.0	12878.7	12428.9	12228.1	11649.5	11072.7	9951.7	9744.0	7232.4
37.5°	14109.5	14092.4	13840.0	13484.7	13089.8	12914.7	12423.8	11661.6	10612.7	10413.5	7671.9
40°	14312.1	14301.8	14114.7	13855.5	13604.9	13543.0	13234.1	12296.7	11369.6	11136.2	8200.7
42.5°	14183.4	14205.7	14082.0	14011.6	13965.3	14010.0	14039.1	13129.3	12195.4	11980.8	8774.1
45°	13788.5	13776.5	13759.3	13874.3	14135.3	14428.9	14835.7	13915.5	13093.3	12921.5	9543.1
47.5°	13082.9	13168.8	13211.7	13529.3	14099.2	14794.5	15752.4	14969.6	14396.2	14246.9	10715.6
50°	12095.9	12164.5	12418.6	12983.4	13833.2	14931.9	16648.5	16693.2	16569.6	16289.7	11989.4
52.5°	10554.3	10660.7	11184.3	12219.5	13287.2	14875.2	17191.0	18171.2	18334.3	18124.9	13244.3
55°	8829.0	8978.3	9531.1	10889.0	12535.4	14566.2	17565.2	19027.9	19678.5	19484.5	14452.8
57.5°	7139.8	7297.7	7865.9	9180.9	11223.7	13882.9	17810.7	19982.3	21508.5	21256.1	15956.7
60°	5350.9	5515.8	6003.3	7357.7	9356.0	12547.4	17644.2	20809.8	23336.8	23228.7	17462.3
62.5°	3452.3	3634.2	4058.2	5179.3	7191.2	10722.5	16753.2	21266.5	24919.6	24789.1	18561.0
65°	2102.9	2123.5	2357.0	3215.4	4921.8	8301.9	14715.6	20660.4	25753.9	25714.4	18895.7
67.5°	1359.6	1392.3	1498.7	1926.1	2951.0	5766.4	11766.3	18660.5	25266.3	25252.6	18203.9
70°	1148.5	1158.7	1206.8	1299.5	1715.0	3496.9	8262.5	15472.6	23414.0	23414.0	16540.4
72.5°	1026.6	1040.3	1057.5	1086.7	1224.0	1981.1	4930.4	12044.4	20215.8	20349.8	14078.7
75°	932.2	928.7	939.1	944.2	1043.8	1294.4	2549.3	8908.0	15639.2	15371.3	10195.4
77.5°	798.3	803.4	798.3	820.6	921.9	985.4	1294.4	5977.6	9477.9	9131.1	5117.5
80°	655.8	664.4	673.0	686.7	787.9	748.5	777.7	2724.4	3505.5	3431.7	1581.1
82.5°	492.7	504.7	518.5	551.0	619.7	494.4	491.0	1163.9	1265.2	1158.7	582.0
85°	199.1	235.2	355.3	388.0	389.7	271.2	302.2	485.8	516.7	504.7	228.3
87.5°	46.3	54.9	115.0	173.4	159.6	101.3	111.6	157.9	180.2	166.5	77.3
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°	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7	2940.7
2.5°	2999.1	2939.0	2836.0	2757.1	2700.4	2650.6	2619.7	2600.8	2593.9	2592.2	2593.9
5°	3100.3	2994.0	2830.8	2727.9	2671.2	2638.6	2619.7	2617.9	2619.7	2621.4	2616.3
7.5°	3239.4	3086.6	2873.8	2777.7	2734.7	2710.6	2702.0	2698.7	2700.4	2698.7	2698.7
10°	3424.8	3215.4	2957.9	2858.3	2822.2	2794.8	2781.0	2772.4	2765.6	2758.7	2755.3
12.5°	3629.1	3357.9	3048.9	2952.8	2901.2	2858.3	2827.4	2805.1	2789.6	2774.2	2770.8
15°	3857.4	3508.9	3150.1	3016.2	2942.4	2878.9	2825.7	2789.6	2762.2	2739.8	2738.1
17.5°	4075.4	3651.5	3218.8	3045.4	2937.3	2848.0	2777.7	2727.9	2693.5	2664.3	2660.8
20°	4308.9	3787.0	3249.7	3026.5	2885.8	2777.7	2684.9	2624.8	2585.3	2552.7	2547.6
22.5°	4544.1	3902.1	3246.3	2966.5	2796.5	2669.5	2571.6	2508.1	2461.8	2429.1	2417.1
25°	4769.0	3994.8	3203.4	2870.3	2672.9	2540.7	2441.2	2382.8	2341.6	2302.1	2302.1
27.5°	4971.6	4049.7	3122.6	2753.6	2545.9	2406.8	2327.8	2274.7	2236.9	2211.1	2195.7
30°	5170.7	4075.4	3012.8	2605.9	2412.0	2293.5	2230.0	2199.1	2164.7	2135.6	2132.1
32.5°	5349.3	4070.3	2875.5	2461.8	2284.9	2200.8	2175.1	2151.0	2114.9	2073.7	2063.5
35°	5522.6	4036.0	2712.4	2303.8	2178.5	2145.9	2152.7	2118.4	2053.1	2001.7	1993.1
37.5°	5711.5	3974.1	2533.8	2175.1	2089.2	2120.2	2137.3	2061.8	1955.3	1874.7	1855.8
40°	5929.5	3903.8	2348.4	2046.3	2018.8	2096.1	2096.1	1957.0	1811.1	1761.3	1747.6
42.5°	6185.3	3845.4	2193.9	1938.2	1960.5	2037.7	2029.2	1818.0	1757.9	1732.1	1725.3
45°	6590.4	3824.8	2034.3	1843.7	1912.4	1969.0	1898.6	1769.9	1735.6	1715.0	1708.2
47.5°	7230.7	3848.8	1893.5	1773.3	1857.4	1900.4	1752.7	1737.3	1713.3	1684.1	1680.7
50°	7824.7	3826.6	1793.9	1733.9	1809.4	1818.0	1692.7	1697.8	1684.1	1651.5	1644.6
52.5°	8310.5	3756.2	1730.4	1713.3	1768.2	1673.8	1636.0	1654.9	1649.7	1608.6	1601.7
55°	8844.5	3713.2	1699.5	1713.3	1740.7	1548.4	1582.8	1610.3	1603.4	1574.2	1572.5
57.5°	9491.6	3721.8	1677.2	1718.4	1713.3	1485.0	1529.6	1562.2	1560.5	1551.9	1551.9
60°	10154.2	3725.2	1642.9	1716.7	1680.7	1435.2	1474.6	1521.0	1524.4	1529.6	1529.6
62.5°	10374.0	3575.8	1575.9	1685.8	1608.6	1387.1	1423.1	1486.6	1483.2	1497.0	1498.7
65°	9963.7	3162.2	1476.4	1615.4	1515.8	1352.7	1383.7	1442.1	1423.1	1459.2	1466.0
67.5°	9069.3	2616.3	1321.9	1488.4	1412.9	1316.7	1357.9	1380.2	1345.9	1416.2	1418.0
70°	7838.5	2042.9	1126.2	1308.1	1296.1	1278.9	1337.3	1303.0	1254.9	1340.7	1323.6
72.5°	6554.3	1560.5	899.5	1069.5	1139.9	1222.3	1301.3	1203.4	1136.4	1162.2	1131.3
75°	4923.5	1153.6	722.8	837.7	949.3	1141.6	1268.6	1083.2	980.3	956.2	949.3
77.5°	2509.8	753.6	540.8	626.6	712.4	1031.7	1224.0	942.5	812.0	774.2	757.1
80°	896.1	468.7	381.1	432.6	480.7	887.5	1069.5	779.4	630.0	623.2	630.0
82.5°	415.5	302.2	255.7	283.2	284.9	592.2	815.4	582.0	478.9	727.9	614.6
85°	178.5	151.0	144.2	140.8	130.4	264.4	458.3	312.4	487.5	218.0	200.8
87.5°	53.2	60.0	53.2	39.4	29.2	29.2	46.3	17.2	12.0	8.6	8.6
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)