

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: P456880

Luminaire Tested: **GALN-SA8A-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456880
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-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 29906 lumens
Efficiency: N/A
Efficacy: 122.6 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

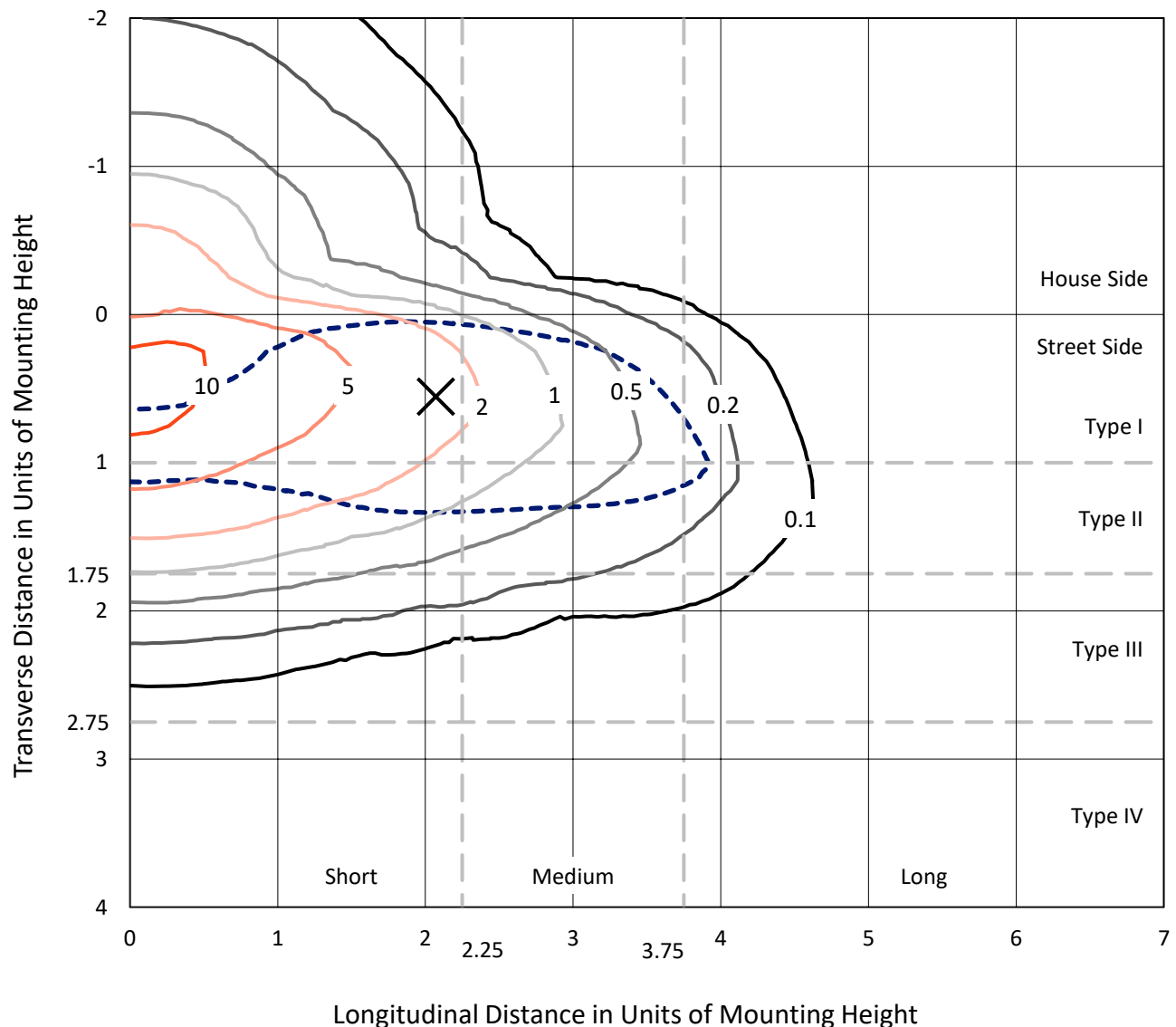


REPORT NUMBER: P456880

CATALOG NUMBER: GALN-SA8A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



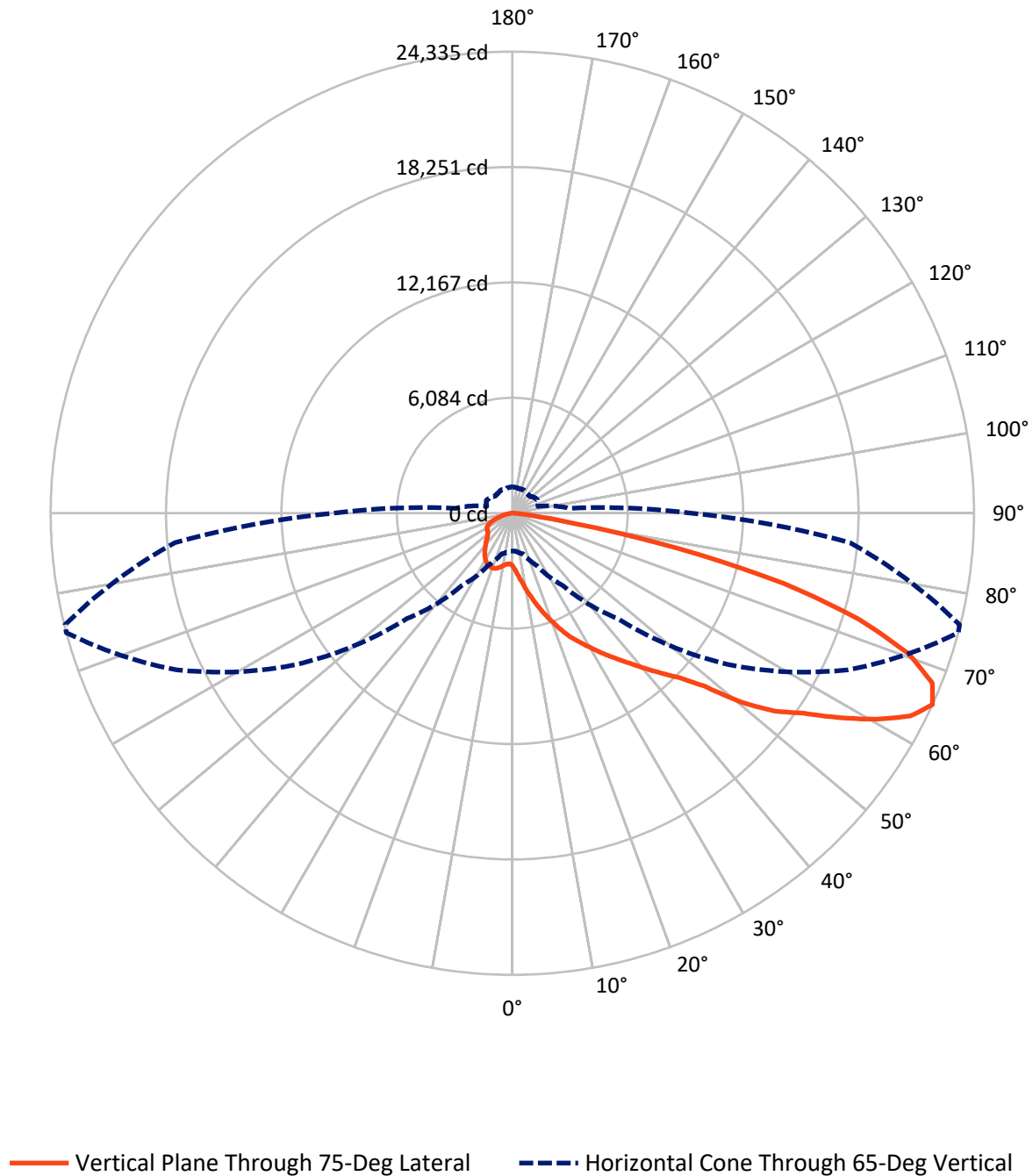
Based on 25 foot mounting height. Maximum calculated value = 11.6 fc

Type II - Short - N/A

REPORT NUMBER: P456880

CATALOG NUMBER: GALN-SA8A-830-U-T2R

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5027.6	0.0	5027.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24878.4	0.0	24878.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	29906.0	0.0	29906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.1
10°-20°	1322.3	4.4
20°-30°	2554.3	8.5
30°-40°	4148.9	13.9
40°-50°	5707.2	19.1
50°-60°	6738.3	22.5
60°-70°	5903.8	19.7
70°-80°	2818.5	9.4
80°-90°	375.0	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°	29906.0	100.0
0°-180°	29906.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456880

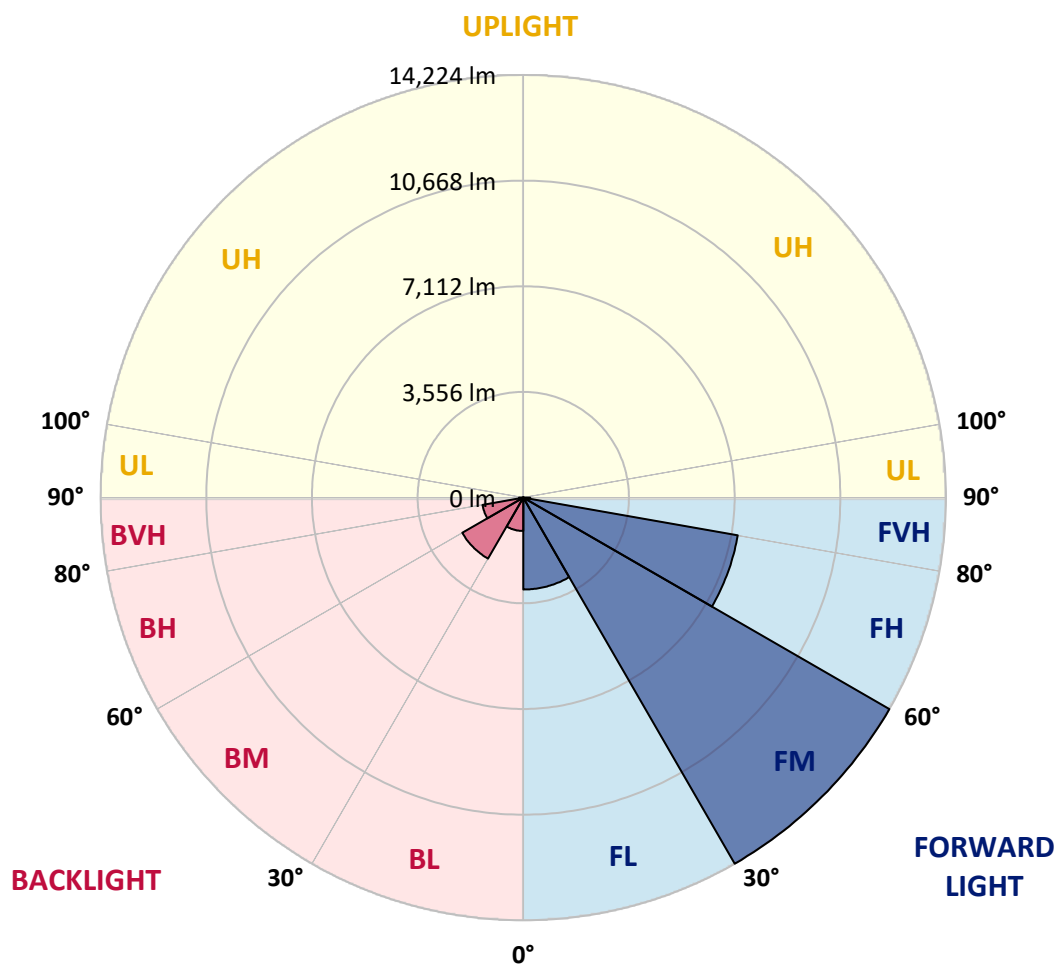
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3091.8	10.3			
FM	(30°-60°)	14223.9	47.6			
FH	(60°-80°)	7328.3	24.5			G3/7500
FVH	(80°-90°)	234.4	0.8			G3/500
BL	(0°-30°)	1122.4	3.8	B3/2500		
BM	(30°-60°)	2370.5	7.9	B2/2500		
BH	(60°-80°)	1394.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	140.7	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-G3

Type II Short





REPORT NUMBER: P456880

CATALOG NUMBER: GALN-SA8A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6
2.5°	3691.9	3667.6	3641.6	3570.2	3494.0	3408.0	3284.7	3166.3	3009.0	3004.1	2887.3
5°	4715.4	4699.2	4584.0	4517.5	4340.7	4105.5	3906.0	3596.2	3309.1	3275.0	3047.9
7.5°	5656.2	5593.0	5549.2	5429.1	5254.0	4952.2	4566.2	4147.7	3667.6	3622.1	3245.8
10°	6365.1	6358.6	6335.9	6232.1	6100.7	5800.6	5372.4	4772.2	4121.7	4032.5	3485.9
12.5°	6895.5	6900.4	6897.1	6895.5	6801.4	6546.8	6082.8	5450.2	4580.8	4517.5	3763.3
15°	7244.3	7292.9	7312.4	7393.5	7401.6	7231.3	6832.3	6105.6	5098.2	5004.2	4061.7
17.5°	7474.6	7498.9	7589.8	7727.7	7839.6	7808.8	7453.5	6712.2	5627.0	5469.7	4371.5
20°	7695.2	7737.4	7807.1	7995.3	8193.2	8284.0	8034.2	7333.5	6151.0	6050.4	4713.8
22.5°	8154.3	8214.3	8238.6	8334.3	8503.0	8663.6	8550.1	7928.8	6725.2	6588.9	5077.2
25°	8931.2	8994.5	8926.4	8903.7	8958.8	9038.3	9014.0	8490.0	7267.0	7072.3	5421.0
27.5°	9943.4	9951.5	9818.5	9692.0	9555.7	9515.2	9440.6	8988.0	7737.4	7575.2	5766.5
30°	11030.2	10991.3	10770.7	10542.0	10311.6	10084.6	9870.4	9468.2	8261.3	8074.8	6105.6
32.5°	12039.2	12018.1	11773.2	11417.9	11028.6	10814.5	10381.4	9953.2	8822.6	8642.5	6454.3
35°	12795.1	12825.9	12556.6	12168.9	11744.0	11554.2	11007.5	10462.5	9403.3	9207.0	6833.9
37.5°	13332.0	13315.8	13077.3	12741.5	12368.5	12203.0	11739.1	11018.9	10027.8	9839.6	7249.1
40°	13523.4	13513.7	13336.8	13091.9	12855.1	12796.7	12504.7	11619.1	10743.1	10522.5	7748.7
42.5°	13401.7	13422.8	13306.0	13239.5	13195.7	13237.9	13265.5	12405.8	11523.3	11320.6	8290.5
45°	13028.7	13017.3	13001.1	13109.8	13356.3	13633.7	14018.1	13148.7	12371.7	12209.5	9017.2
47.5°	12362.0	12443.1	12483.6	12783.7	13322.2	13979.2	14884.3	14144.6	13602.9	13461.7	10125.1
50°	11429.3	11494.2	11734.2	12267.9	13070.8	14109.0	15731.1	15773.2	15656.4	15392.0	11328.7
52.5°	9972.6	10073.2	10567.9	11546.1	12555.0	14055.4	16243.6	17169.9	17324.0	17126.1	12514.4
55°	8342.4	8483.5	9005.9	10288.9	11844.5	13763.5	16597.3	17979.3	18594.1	18410.8	13656.4
57.5°	6746.3	6895.5	7432.4	8675.0	10605.2	13117.9	16829.2	18881.2	20323.2	20084.8	15077.4
60°	5056.1	5211.8	5672.5	6952.3	8840.4	11855.9	16671.9	19663.0	22050.7	21948.5	16499.9
62.5°	3262.0	3434.0	3834.6	4893.9	6794.9	10131.6	15830.0	20094.5	23546.3	23423.0	17538.1
65°	1987.1	2006.5	2227.1	3038.2	4650.5	7844.4	13904.6	19521.9	24334.6	24297.3	17854.4
67.5°	1284.7	1315.5	1416.1	1820.0	2788.4	5448.6	11117.8	17632.1	23874.0	23861.0	17200.7
70°	1085.2	1094.9	1140.3	1227.9	1620.5	3304.2	7807.1	14619.9	22123.7	22123.7	15628.9
72.5°	970.0	983.0	999.2	1026.8	1156.6	1871.9	4658.7	11380.6	19101.8	19228.3	13302.8
75°	880.8	877.6	887.3	892.2	986.2	1223.1	2408.8	8417.0	14777.3	14524.2	9633.6
77.5°	754.3	759.1	754.3	775.4	871.1	931.1	1223.1	5648.1	8955.6	8627.9	4835.5
80°	619.6	627.7	635.9	648.8	744.5	707.2	734.8	2574.3	3312.3	3242.6	1493.9
82.5°	465.5	476.9	489.9	520.7	585.6	467.2	463.9	1099.8	1195.5	1094.9	549.9
85°	188.2	222.2	335.8	366.6	368.2	256.3	285.5	459.1	488.2	476.9	215.7
87.5°	43.8	51.9	108.7	163.8	150.9	95.7	105.4	149.2	170.3	157.3	73.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456880

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6	2778.6
2.5°	2833.8	2777.0	2679.7	2605.1	2551.6	2504.5	2475.3	2457.5	2451.0	2449.4	2451.0
5°	2929.5	2828.9	2674.8	2577.5	2524.0	2493.2	2475.3	2473.7	2475.3	2476.9	2472.1
7.5°	3060.9	2916.5	2715.4	2624.5	2584.0	2561.3	2553.2	2549.9	2551.6	2549.9	2549.9
10°	3236.1	3038.2	2794.9	2700.8	2666.7	2640.8	2627.8	2619.7	2613.2	2606.7	2603.5
12.5°	3429.1	3172.8	2880.8	2790.0	2741.3	2700.8	2671.6	2650.5	2635.9	2621.3	2618.1
15°	3644.8	3315.6	2976.5	2850.0	2780.3	2720.2	2670.0	2635.9	2609.9	2588.9	2587.2
17.5°	3850.8	3450.2	3041.4	2877.6	2775.4	2691.1	2624.5	2577.5	2545.1	2517.5	2514.2
20°	4071.5	3578.3	3070.6	2859.7	2726.7	2624.5	2537.0	2480.2	2442.9	2412.1	2407.2
22.5°	4293.7	3687.0	3067.4	2803.0	2642.4	2522.4	2429.9	2369.9	2326.1	2295.3	2283.9
25°	4506.2	3774.6	3026.8	2712.1	2525.6	2400.7	2306.6	2251.5	2212.5	2175.2	2175.2
27.5°	4697.6	3826.5	2950.6	2601.8	2405.6	2274.2	2199.6	2149.3	2113.6	2089.3	2074.7
30°	4885.7	3850.8	2846.8	2462.3	2279.0	2167.1	2107.1	2077.9	2045.5	2017.9	2014.6
32.5°	5054.4	3846.0	2717.0	2326.1	2159.0	2079.5	2055.2	2032.5	1998.4	1959.5	1949.8
35°	5218.3	3813.5	2562.9	2176.8	2058.4	2027.6	2034.1	2001.7	1940.0	1891.4	1883.2
37.5°	5396.7	3755.1	2394.2	2055.2	1974.1	2003.3	2019.5	1948.1	1847.6	1771.3	1753.5
40°	5602.7	3688.6	2219.0	1933.5	1907.6	1980.6	1980.6	1849.2	1711.3	1664.3	1651.3
42.5°	5844.4	3633.5	2073.0	1831.3	1852.4	1925.4	1917.3	1717.8	1661.0	1636.7	1630.2
45°	6227.2	3614.0	1922.2	1742.1	1807.0	1860.5	1794.0	1672.4	1639.9	1620.5	1614.0
47.5°	6832.3	3636.7	1789.2	1675.6	1755.1	1795.7	1656.2	1641.6	1618.8	1591.3	1588.0
50°	7393.5	3615.6	1695.1	1638.3	1709.7	1717.8	1599.4	1604.2	1591.3	1560.5	1554.0
52.5°	7852.6	3549.1	1635.1	1618.8	1670.8	1581.5	1545.9	1563.7	1558.8	1519.9	1513.4
55°	8357.0	3508.6	1605.9	1618.8	1644.8	1463.1	1495.6	1521.5	1515.0	1487.5	1485.8
57.5°	8968.6	3516.7	1584.8	1623.7	1618.8	1403.1	1445.3	1476.1	1474.5	1466.4	1466.4
60°	9594.7	3519.9	1552.3	1622.1	1588.0	1356.1	1393.4	1437.2	1440.4	1445.3	1445.3
62.5°	9802.3	3378.8	1489.1	1592.9	1519.9	1310.7	1344.7	1404.7	1401.5	1414.5	1416.1
65°	9414.6	2987.9	1395.0	1526.4	1432.3	1278.2	1307.4	1362.6	1344.7	1378.8	1385.3
67.5°	8569.5	2472.1	1249.0	1406.4	1335.0	1244.1	1283.1	1304.2	1271.7	1338.2	1339.8
70°	7406.5	1930.3	1064.1	1236.0	1224.7	1208.5	1263.6	1231.2	1185.7	1266.9	1250.6
72.5°	6193.2	1474.5	850.0	1010.6	1077.1	1154.9	1229.5	1137.1	1073.8	1098.2	1069.0
75°	4652.2	1090.0	682.9	791.6	897.0	1078.7	1198.7	1023.5	926.2	903.5	897.0
77.5°	2371.5	712.1	511.0	592.1	673.2	974.9	1156.6	890.5	767.2	731.6	715.3
80°	846.7	442.8	360.1	408.8	454.2	838.6	1010.6	736.4	595.3	588.8	595.3
82.5°	392.5	285.5	241.7	267.6	269.3	559.6	770.5	549.9	452.6	687.8	580.7
85°	168.7	142.7	136.3	133.0	123.3	249.8	433.1	295.2	460.7	206.0	189.8
87.5°	50.3	56.8	50.3	37.3	27.6	27.6	43.8	16.2	11.4	8.1	8.1
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)