

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: P454560

Luminaire Tested: **GALN-SA5C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454560
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-SA5C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28513 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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



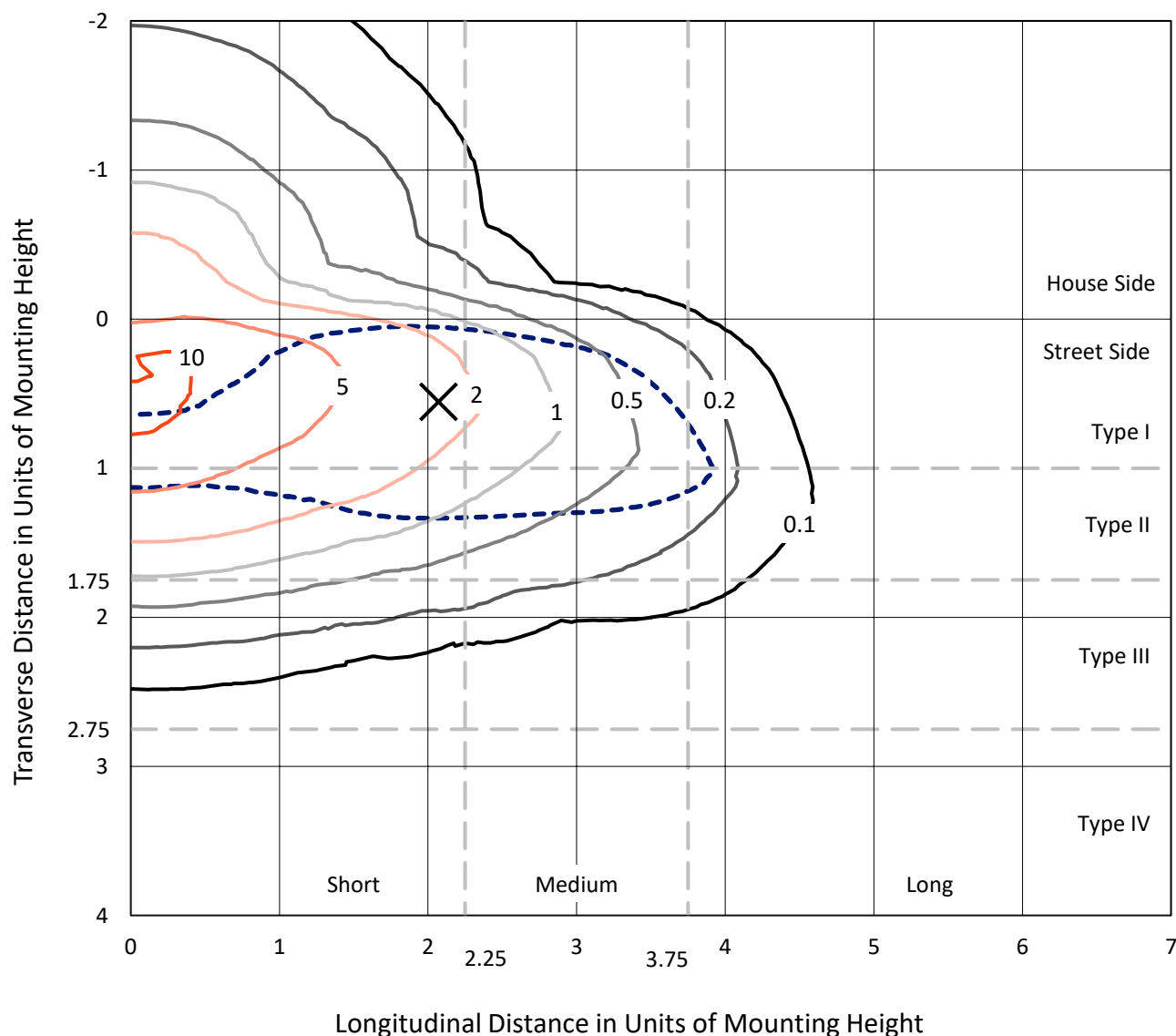
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

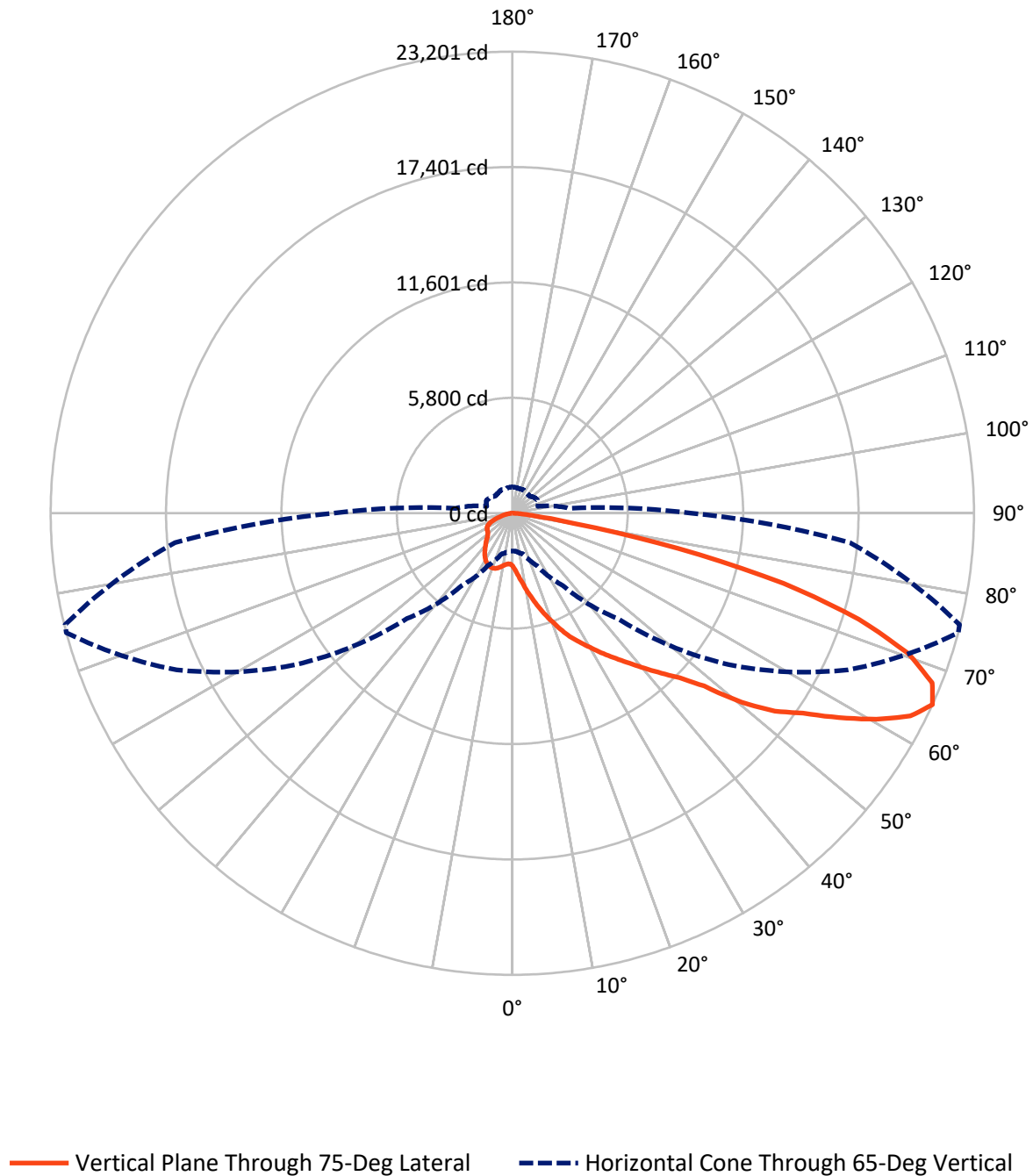


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4793.4	0.0	4793.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23719.6	0.0	23719.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	28513.0	0.0	28513.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.1
10°-20°	1260.7	4.4
20°-30°	2435.3	8.5
30°-40°	3955.7	13.9
40°-50°	5441.4	19.1
50°-60°	6424.4	22.5
60°-70°	5628.8	19.7
70°-80°	2687.2	9.4
80°-90°	357.6	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°	28513.0	100.0
0°-180°	28513.0	100.0

Coefficient of Utilization



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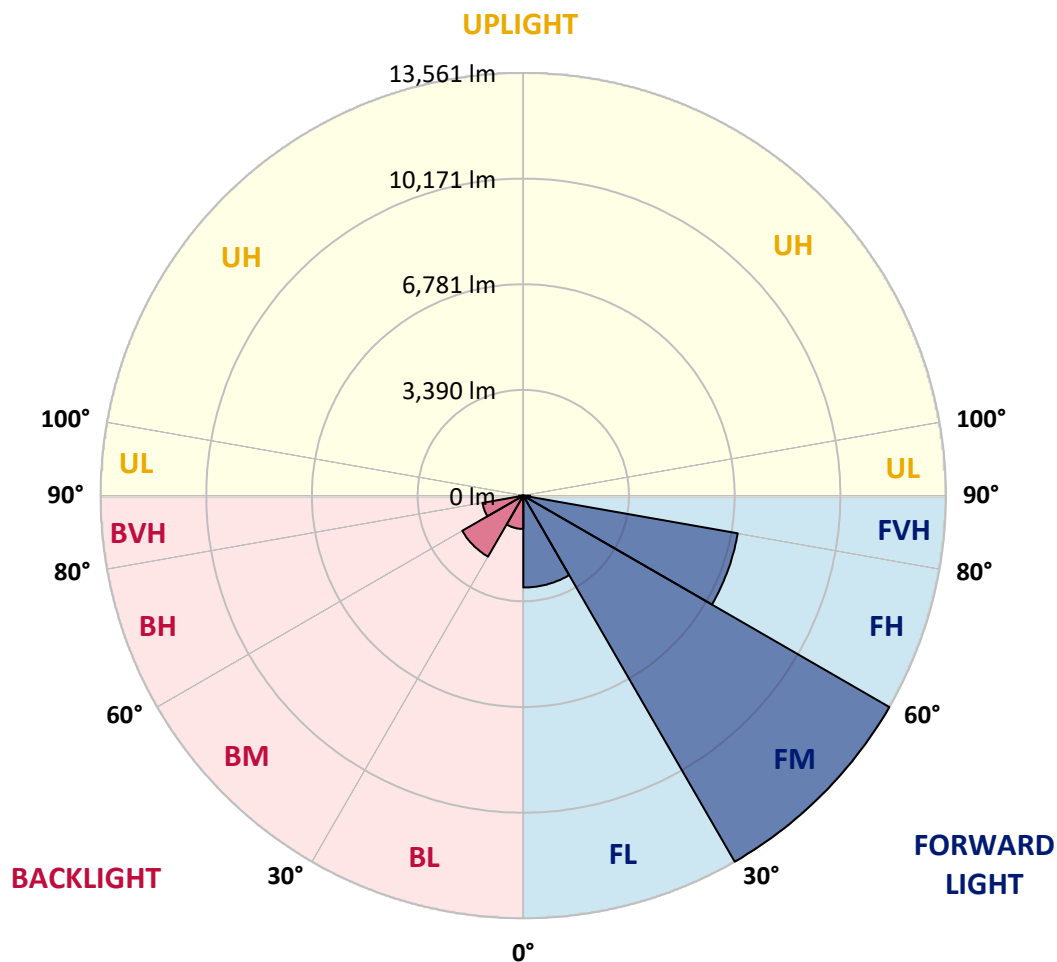
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2947.8	10.3			
FM	(30°-60°)	13561.4	47.6			
FH	(60°-80°)	6987.0	24.5			G3/7500
FVH	(80°-90°)	223.5	0.8			G2/225
BL	(0°-30°)	1070.1	3.8	B3/2500		
BM	(30°-60°)	2260.1	7.9	B2/2500		
BH	(60°-80°)	1329.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	134.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2
2.5°	3519.9	3496.7	3472.0	3403.9	3331.2	3249.3	3131.7	3018.8	2868.8	2864.2	2752.8
5°	4495.8	4480.3	4370.5	4307.1	4138.5	3914.3	3724.1	3428.7	3154.9	3122.5	2905.9
7.5°	5392.8	5332.5	5290.7	5176.3	5009.2	4721.6	4353.5	3954.5	3496.7	3453.4	3094.6
10°	6068.6	6062.4	6040.8	5941.8	5816.5	5530.4	5122.1	4549.9	3929.8	3844.7	3323.5
12.5°	6574.3	6579.0	6575.9	6574.3	6484.6	6241.8	5799.5	5196.4	4367.4	4307.1	3588.0
15°	6906.8	6953.2	6971.8	7049.1	7056.8	6894.5	6514.0	5821.2	4860.8	4771.1	3872.5
17.5°	7126.4	7149.6	7236.2	7367.7	7474.4	7445.0	7106.3	6399.6	5364.9	5214.9	4167.9
20°	7336.8	7377.0	7443.5	7622.9	7811.6	7898.2	7660.0	6991.9	5864.5	5768.6	4494.2
22.5°	7774.4	7831.7	7854.9	7946.1	8106.9	8260.1	8151.8	7559.5	6411.9	6282.0	4840.7
25°	8515.2	8575.5	8510.6	8488.9	8541.5	8617.3	8594.1	8094.6	6928.5	6742.9	5168.5
27.5°	9480.3	9488.0	9361.2	9240.6	9110.6	9072.0	9000.8	8569.4	7377.0	7222.3	5497.9
30°	10516.5	10479.3	10269.0	10050.9	9831.3	9614.8	9410.7	9027.1	7876.5	7698.7	5821.2
32.5°	11478.4	11458.3	11224.8	10886.1	10514.9	10310.8	9897.8	9489.6	8411.6	8239.9	6153.7
35°	12199.1	12228.5	11971.7	11602.1	11196.9	11016.0	10494.8	9975.2	8965.3	8778.1	6515.6
37.5°	12711.0	12695.5	12468.2	12148.0	11792.3	11634.6	11192.3	10505.6	9560.7	9381.3	6911.5
40°	12893.5	12884.2	12715.6	12482.1	12256.3	12200.6	11922.3	11077.8	10242.7	10032.4	7387.8
42.5°	12777.5	12797.6	12686.2	12622.8	12581.1	12621.3	12647.6	11827.9	10986.6	10793.3	7904.4
45°	12421.8	12411.0	12395.5	12499.1	12734.2	12998.6	13365.2	12536.2	11795.4	11640.8	8597.2
47.5°	11786.2	11863.5	11902.1	12188.3	12701.7	13328.1	14191.0	13485.8	12969.3	12834.7	9653.5
50°	10896.9	10958.8	11187.6	11696.5	12462.0	13451.8	14998.3	15038.5	14927.2	14675.1	10801.0
52.5°	9508.1	9604.0	10075.7	11008.3	11970.2	13400.7	15487.0	16370.1	16517.0	16328.3	11931.5
55°	7953.8	8088.4	8586.4	9809.7	11292.8	13122.4	15824.2	17141.8	17728.0	17553.2	13020.3
57.5°	6432.0	6574.3	7086.2	8270.9	10111.3	12506.8	16045.3	18001.7	19376.6	19149.2	14375.1
60°	4820.6	4969.0	5408.2	6628.5	8428.6	11303.6	15895.3	18747.1	21023.6	20926.2	15731.4
62.5°	3110.1	3274.0	3656.0	4665.9	6478.4	9659.7	15092.7	19158.5	22449.5	22332.0	16721.2
65°	1894.5	1913.1	2123.4	2896.7	4433.9	7479.1	13256.9	18612.6	23201.1	23165.6	17022.7
67.5°	1224.9	1254.2	1350.1	1735.2	2658.5	5194.8	10600.0	16810.9	22761.9	22749.6	16399.5
70°	1034.6	1043.9	1087.2	1170.7	1545.0	3150.3	7443.5	13938.9	21093.2	21093.2	14900.9
72.5°	924.8	937.2	952.7	979.0	1102.7	1784.7	4441.7	10850.5	18212.0	18332.6	12683.1
75°	839.8	836.7	846.0	850.6	940.3	1166.1	2296.6	8025.0	14089.0	13847.7	9184.9
77.5°	719.1	723.8	719.1	739.2	830.5	887.7	1166.1	5385.0	8538.4	8226.0	4610.2
80°	590.8	598.5	606.2	618.6	709.9	674.3	700.6	2454.4	3158.0	3091.5	1424.4
82.5°	443.9	454.7	467.1	496.4	558.3	445.4	442.3	1048.6	1139.8	1043.9	524.3
85°	179.4	211.9	320.1	349.5	351.1	244.4	272.2	437.7	465.5	454.7	205.7
87.5°	41.8	49.5	103.6	156.2	143.8	91.2	100.5	142.3	162.4	150.0	69.6
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°	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2	2649.2
2.5°	2701.8	2647.7	2554.9	2483.7	2432.7	2387.9	2360.0	2343.0	2336.8	2335.3	2336.8
5°	2793.0	2697.2	2550.2	2457.4	2406.4	2377.0	2360.0	2358.5	2360.0	2361.6	2356.9
7.5°	2918.3	2780.7	2588.9	2502.3	2463.6	2442.0	2434.2	2431.2	2432.7	2431.2	2431.2
10°	3085.3	2896.7	2664.7	2575.0	2542.5	2517.8	2505.4	2497.7	2491.5	2485.3	2482.2
12.5°	3269.4	3025.0	2746.6	2660.0	2613.6	2575.0	2547.1	2527.0	2513.1	2499.2	2496.1
15°	3475.1	3161.1	2837.9	2717.3	2650.8	2593.5	2545.6	2513.1	2488.4	2468.3	2466.7
17.5°	3671.5	3289.5	2899.8	2743.6	2646.1	2565.7	2502.3	2457.4	2426.5	2400.2	2397.1
20°	3881.8	3411.7	2927.6	2726.5	2599.7	2502.3	2418.8	2364.7	2329.1	2299.7	2295.1
22.5°	4093.7	3515.3	2924.5	2672.4	2519.3	2404.9	2316.7	2259.5	2217.7	2188.3	2177.5
25°	4296.3	3598.8	2885.8	2585.8	2408.0	2288.9	2199.2	2146.6	2109.5	2073.9	2073.9
27.5°	4478.8	3648.3	2813.2	2480.6	2293.5	2168.2	2097.1	2049.2	2015.1	1991.9	1978.0
30°	4658.2	3671.5	2714.2	2347.6	2172.9	2066.2	2009.0	1981.1	1950.2	1923.9	1920.8
32.5°	4819.0	3666.8	2590.4	2217.7	2058.4	1982.7	1959.5	1937.8	1905.3	1868.2	1858.9
35°	4975.2	3635.9	2443.5	2075.5	1962.6	1933.2	1939.4	1908.4	1849.7	1803.3	1795.5
37.5°	5145.3	3580.2	2282.7	1959.5	1882.1	1910.0	1925.4	1857.4	1761.5	1688.8	1671.8
40°	5341.7	3516.8	2115.7	1843.5	1818.7	1888.3	1888.3	1763.1	1631.6	1586.7	1574.4
42.5°	5572.2	3464.2	1976.5	1746.0	1766.1	1835.7	1828.0	1637.8	1583.7	1560.5	1554.3
45°	5937.2	3445.7	1832.6	1661.0	1722.8	1773.9	1710.5	1594.5	1563.5	1545.0	1538.8
47.5°	6514.0	3467.3	1705.8	1597.6	1673.4	1712.0	1579.0	1565.1	1543.4	1517.2	1514.1
50°	7049.1	3447.2	1616.1	1562.0	1630.0	1637.8	1524.9	1529.5	1517.2	1487.8	1481.6
52.5°	7486.8	3383.8	1558.9	1543.4	1592.9	1507.9	1473.8	1490.9	1486.2	1449.1	1442.9
55°	7967.8	3345.2	1531.1	1543.4	1568.2	1395.0	1425.9	1450.7	1444.5	1418.2	1416.6
57.5°	8550.8	3352.9	1511.0	1548.1	1543.4	1337.8	1378.0	1407.3	1405.8	1398.1	1398.1
60°	9147.8	3356.0	1480.0	1546.5	1514.1	1292.9	1328.5	1370.2	1373.3	1378.0	1378.0
62.5°	9345.7	3221.4	1419.7	1518.7	1449.1	1249.6	1282.1	1339.3	1336.2	1348.6	1350.1
65°	8976.1	2848.7	1330.0	1455.3	1365.6	1218.7	1246.5	1299.1	1282.1	1314.6	1320.7
67.5°	8170.4	2356.9	1190.8	1340.8	1272.8	1186.2	1223.3	1243.4	1212.5	1275.9	1277.4
70°	7061.5	1840.4	1014.5	1178.5	1167.6	1152.2	1204.8	1173.8	1130.5	1207.8	1192.4
72.5°	5904.7	1405.8	810.4	963.5	1026.9	1101.1	1172.3	1084.1	1023.8	1047.0	1019.2
75°	4435.5	1039.3	651.1	754.7	855.2	1028.4	1142.9	975.9	883.1	861.4	855.2
77.5°	2261.0	678.9	487.2	564.5	641.8	929.5	1102.7	849.0	731.5	697.5	682.0
80°	807.3	422.2	343.3	389.7	433.0	799.6	963.5	702.1	567.6	561.4	567.6
82.5°	374.3	272.2	230.4	255.2	256.7	533.6	734.6	524.3	431.5	655.7	553.7
85°	160.8	136.1	129.9	126.8	117.5	238.2	412.9	281.5	439.2	196.4	180.9
87.5°	47.9	54.1	47.9	35.6	26.3	26.3	41.8	15.5	10.8	7.7	7.7
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)