

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: P650924

Luminaire Tested: **GALN-SA5C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650924
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-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 30175.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

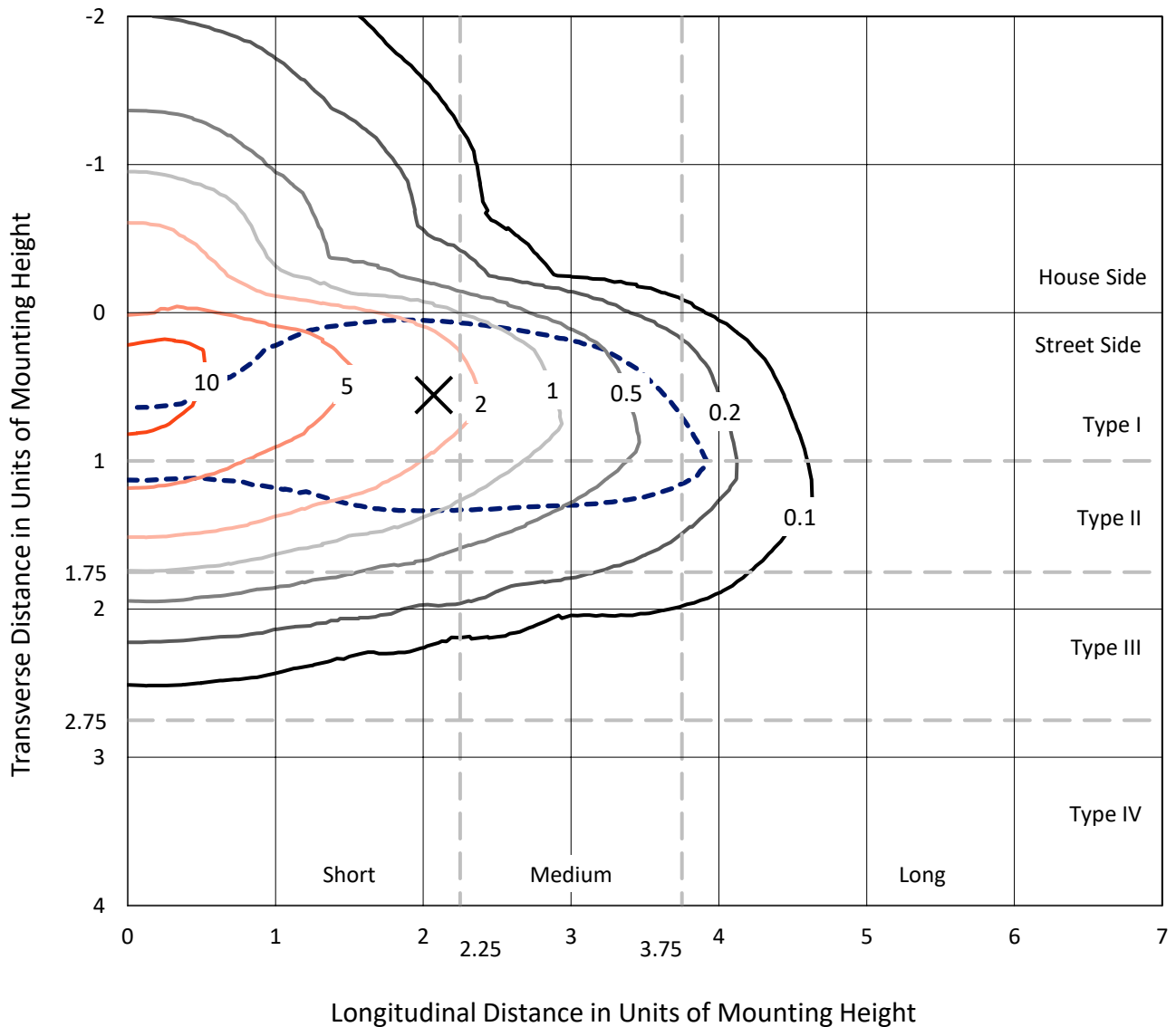
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

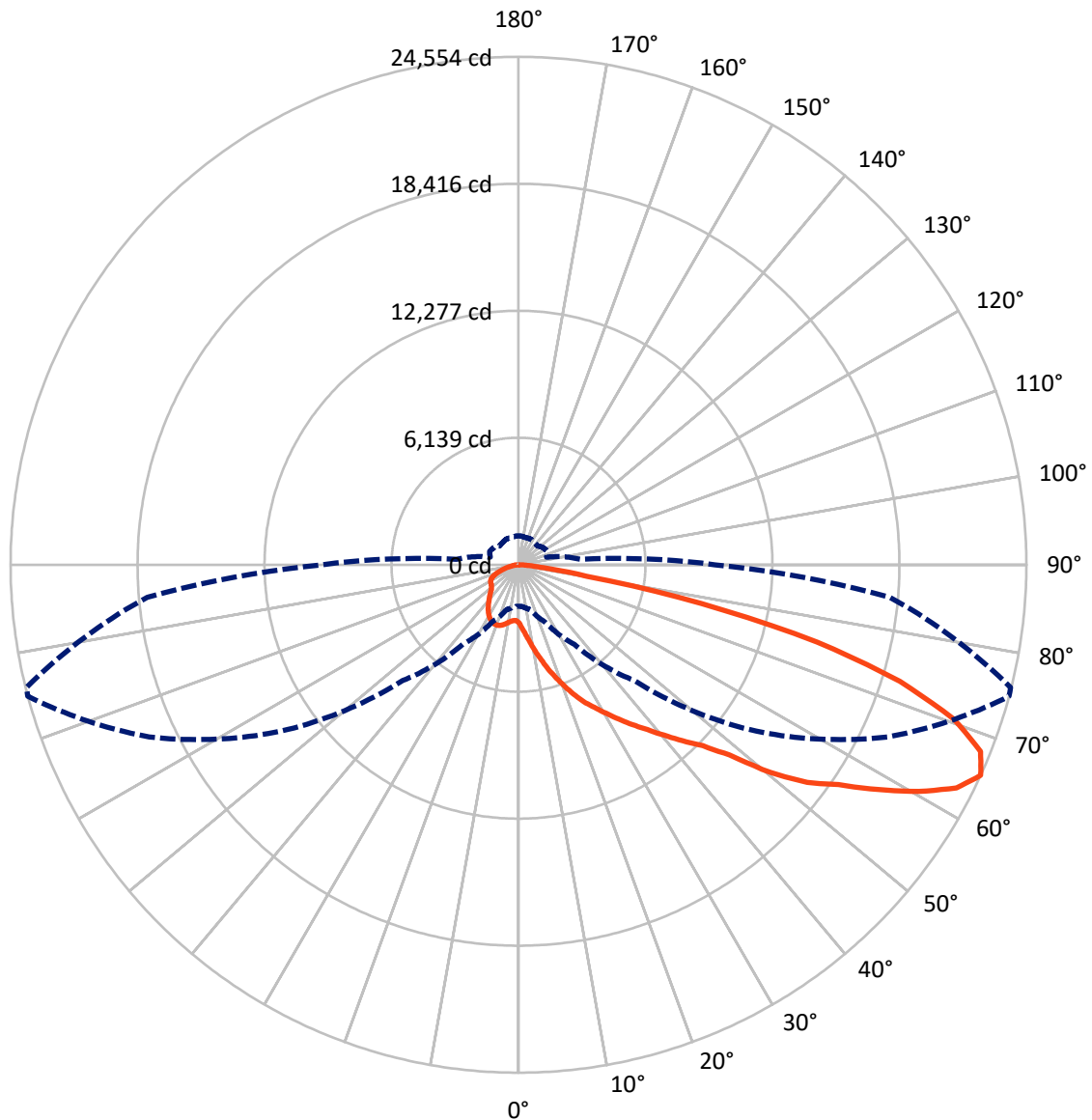
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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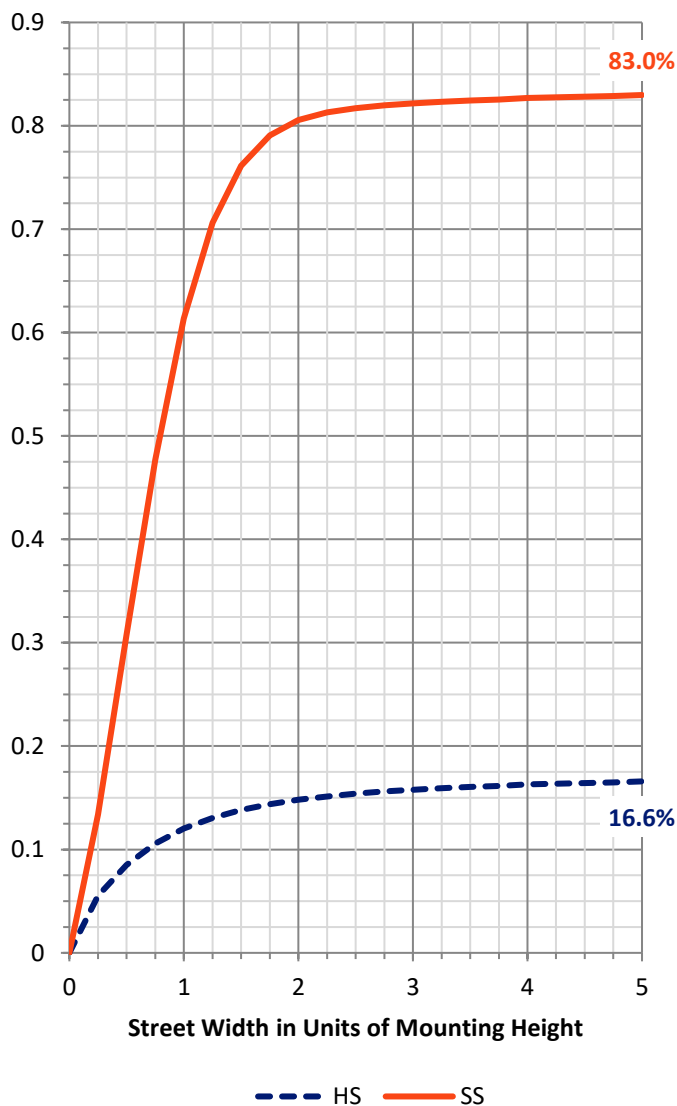
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5073.0	0.0	5073.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	25103.0	0.0	25103.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	30175.9	0.0	30175.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.6	1.1
10°-20°	1334.3	4.4
20°-30°	2577.3	8.5
30°-40°	4186.4	13.9
40°-50°	5758.7	19.1
50°-60°	6799.1	22.5
60°-70°	5957.1	19.7
70°-80°	2844.0	9.4
80°-90°	378.4	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°	30175.9	100.0
0°-180°	30175.9	100.0

Coefficient of Utilization



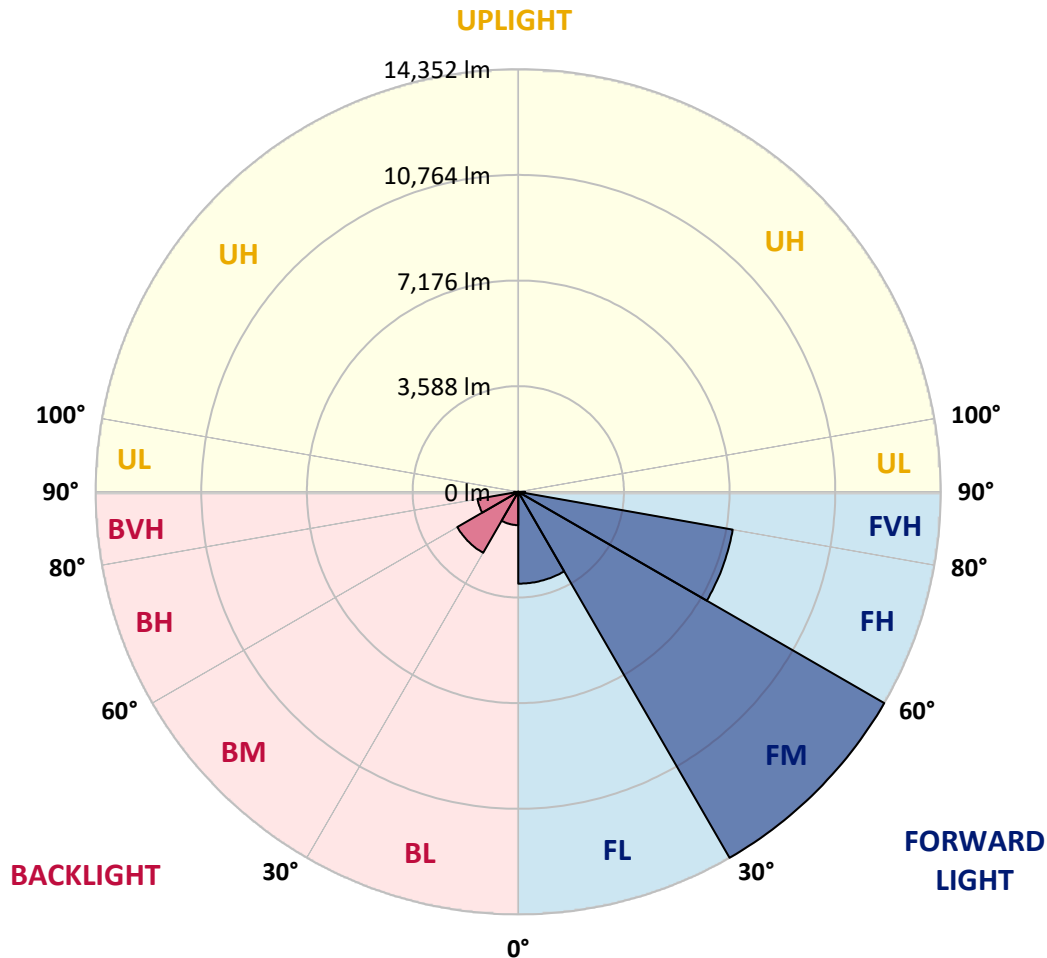
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3119.7	10.3			
FM (30°-60°)	14352.3	47.6			
FH (60°-80°)	7394.5	24.5			G3/7500
FVH (80°-90°)	236.5	0.8			G3/500
BL (0°-30°)	1132.5	3.8	B3/2500		
BM (30°-60°)	2391.9	7.9	B2/2500		
BH (60°-80°)	1406.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	141.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7
2.5°	3725.2	3700.7	3674.5	3602.4	3525.6	3438.8	3314.4	3194.9	3036.2	3031.2	2913.4
5°	4758.0	4741.6	4625.4	4558.3	4379.9	4142.6	3941.3	3628.7	3338.9	3304.5	3075.5
7.5°	5707.3	5643.4	5599.3	5478.1	5301.4	4997.0	4607.4	4185.2	3700.7	3654.8	3275.1
10°	6422.5	6416.0	6393.1	6288.3	6155.8	5852.9	5420.8	4815.2	4158.9	4068.9	3517.3
12.5°	6957.8	6962.6	6959.4	6957.8	6862.8	6605.9	6137.8	5499.4	4622.1	4558.3	3797.2
15°	7309.6	7358.8	7378.4	7460.3	7468.4	7296.5	6893.9	6160.7	5144.2	5049.4	4098.4
17.5°	7542.1	7566.6	7658.3	7797.4	7910.4	7879.2	7520.8	6772.8	5677.8	5519.1	4411.0
20°	7764.7	7807.3	7877.6	8067.5	8267.1	8358.8	8106.7	7399.7	6206.5	6105.0	4756.4
22.5°	8227.8	8288.4	8312.9	8409.5	8579.8	8741.8	8627.2	8000.3	6785.9	6648.4	5123.0
25°	9011.8	9075.7	9006.9	8984.1	9039.7	9119.9	9095.3	8566.7	7332.6	7136.1	5469.9
27.5°	10033.2	10041.4	9907.1	9779.5	9642.0	9601.1	9525.8	9069.2	7807.3	7643.5	5818.6
30°	11129.8	11090.5	10867.9	10637.1	10404.7	10175.6	9959.5	9553.6	8335.9	8147.7	6160.7
32.5°	12147.8	12126.5	11879.4	11520.9	11128.1	10912.1	10475.1	10043.0	8902.2	8720.5	6512.5
35°	12910.5	12941.6	12669.9	12278.8	11849.9	11658.4	11106.8	10556.9	9488.2	9290.1	6895.5
37.5°	13452.3	13436.0	13195.4	12856.5	12480.1	12313.2	11845.1	11118.4	10118.3	9928.4	7314.6
40°	13645.5	13635.6	13457.3	13210.1	12971.1	12912.2	12617.6	11724.0	10840.1	10617.5	7818.7
42.5°	13522.7	13544.0	13426.1	13359.0	13314.8	13357.4	13385.2	12517.7	11627.3	11422.8	8365.3
45°	13146.3	13134.8	13118.4	13228.1	13476.9	13756.7	14144.6	13267.4	12483.4	12319.7	9098.6
47.5°	12473.5	12555.4	12596.3	12899.1	13442.5	14105.3	15018.7	14272.3	13725.6	13583.2	10216.5
50°	11532.5	11597.9	11840.1	12378.6	13188.8	14236.3	15873.0	15915.6	15797.8	15531.0	11431.0
52.5°	10062.6	10164.1	10663.3	11650.3	12668.3	14182.3	16390.2	17324.9	17480.4	17280.6	12627.4
55°	8417.7	8560.1	9087.2	10381.8	11951.5	13887.7	16747.1	18141.5	18761.9	18576.9	13779.6
57.5°	6807.1	6957.8	7499.5	8753.2	10701.0	13236.2	16981.1	19051.6	20506.6	20266.0	15213.4
60°	5101.7	5258.9	5723.7	7015.0	8920.2	11962.9	16822.4	19840.5	22249.7	22146.6	16648.9
62.5°	3291.5	3465.0	3869.3	4938.0	6856.3	10223.0	15972.9	20275.8	23758.8	23634.5	17696.3
65°	2005.0	2024.6	2247.2	3065.6	4692.5	7915.2	14030.1	19698.1	24554.3	24516.7	18015.6
67.5°	1296.3	1327.4	1428.9	1836.4	2813.6	5497.8	11218.2	17791.3	24089.4	24076.3	17355.9
70°	1095.0	1104.8	1150.7	1239.0	1635.1	3334.1	7877.6	14751.9	22323.4	22323.4	15769.9
72.5°	978.8	991.9	1008.2	1036.0	1167.0	1888.8	4700.7	11483.4	19274.2	19401.9	13422.9
75°	888.8	885.5	895.3	900.2	995.2	1234.1	2430.6	8493.0	14910.7	14655.4	9720.5
77.5°	761.1	766.0	761.1	782.4	878.9	939.5	1234.1	5699.1	9036.4	8705.8	4879.1
80°	625.2	633.4	641.6	654.7	751.3	713.6	741.4	2597.5	3342.2	3271.8	1507.4
82.5°	469.8	481.2	494.3	525.4	590.9	471.4	468.1	1109.7	1206.2	1104.8	554.9
85°	189.9	224.2	338.8	369.9	371.6	258.6	288.0	463.2	492.7	481.2	217.7
87.5°	44.2	52.4	109.7	165.3	152.2	96.5	106.4	150.5	171.8	158.8	73.7
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°	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7
2.5°	2859.4	2802.1	2703.9	2628.6	2574.6	2527.1	2497.7	2479.7	2473.1	2471.4	2473.1
5°	2955.9	2854.4	2698.9	2600.8	2546.7	2515.7	2497.7	2496.0	2497.7	2499.3	2494.4
7.5°	3088.5	2942.8	2739.9	2648.2	2607.4	2584.4	2576.2	2573.0	2574.6	2573.0	2573.0
10°	3265.3	3065.6	2820.1	2725.2	2690.8	2664.6	2651.5	2643.3	2636.8	2630.2	2626.9
12.5°	3460.0	3201.4	2906.8	2815.2	2766.0	2725.2	2695.7	2674.5	2659.7	2644.9	2641.7
15°	3677.8	3345.5	3003.4	2875.7	2805.3	2744.8	2694.1	2659.7	2633.5	2612.2	2610.5
17.5°	3885.6	3481.3	3068.9	2903.6	2800.4	2715.3	2648.2	2600.8	2568.0	2540.2	2537.0
20°	4108.2	3610.7	3098.3	2885.6	2751.3	2648.2	2559.8	2502.6	2464.9	2433.9	2428.9
22.5°	4332.4	3720.3	3095.0	2828.3	2666.2	2545.1	2451.9	2391.3	2347.1	2315.9	2304.5
25°	4546.9	3808.6	3054.2	2736.6	2548.4	2422.3	2327.5	2271.8	2232.5	2194.8	2194.8
27.5°	4740.0	3861.0	2977.2	2625.3	2427.3	2294.7	2219.4	2168.7	2132.7	2108.1	2093.4
30°	4929.9	3885.6	2872.4	2484.6	2299.6	2186.7	2126.1	2096.7	2063.9	2036.1	2032.8
32.5°	5100.1	3880.7	2741.5	2347.1	2178.5	2098.3	2073.7	2050.9	2016.5	1977.2	1967.4
35°	5265.3	3848.0	2586.1	2196.5	2077.0	2045.9	2052.5	2019.7	1957.5	1908.4	1900.2
37.5°	5445.4	3789.0	2415.9	2073.7	1991.9	2021.3	2037.7	1965.8	1864.2	1787.3	1769.3
40°	5653.3	3721.9	2239.1	1951.0	1924.8	1998.5	1998.5	1865.8	1726.7	1679.3	1666.2
42.5°	5897.2	3666.3	2091.7	1847.8	1869.1	1942.8	1934.6	1733.3	1676.0	1651.5	1644.9
45°	6283.4	3646.7	1939.5	1757.9	1823.3	1877.4	1810.3	1687.5	1654.8	1635.1	1628.5
47.5°	6893.9	3669.5	1805.3	1690.7	1771.0	1811.9	1671.1	1656.3	1633.5	1605.6	1602.4
50°	7460.3	3648.3	1710.4	1653.1	1725.1	1733.3	1613.8	1618.8	1605.6	1574.5	1568.0
52.5°	7923.4	3581.1	1649.8	1633.5	1685.9	1595.8	1559.8	1577.8	1572.9	1533.6	1527.1
55°	8432.5	3540.3	1620.4	1633.5	1659.6	1476.4	1509.1	1535.2	1528.7	1500.8	1499.3
57.5°	9049.5	3548.4	1599.1	1638.4	1633.5	1415.7	1458.3	1489.4	1487.8	1479.6	1479.6
60°	9681.3	3551.7	1566.4	1636.8	1602.4	1368.3	1406.0	1450.1	1453.4	1458.3	1458.3
62.5°	9890.7	3409.3	1502.5	1607.2	1533.6	1322.5	1356.9	1417.4	1414.1	1427.3	1428.9
65°	9499.6	3014.9	1407.6	1540.2	1445.3	1289.8	1319.2	1374.9	1356.9	1391.2	1397.7
67.5°	8646.8	2494.4	1260.3	1419.0	1347.0	1255.4	1294.6	1315.9	1283.2	1350.3	1351.9
70°	7473.3	1947.7	1073.7	1247.2	1235.8	1219.4	1275.0	1242.2	1196.5	1278.3	1261.9
72.5°	6249.1	1487.8	857.7	1019.7	1086.8	1165.4	1240.6	1147.4	1083.5	1108.1	1078.6
75°	4694.1	1099.9	689.0	798.7	905.1	1088.4	1209.5	1032.7	934.6	911.6	905.1
77.5°	2392.9	718.6	515.5	597.4	679.3	983.7	1167.0	898.6	774.1	738.1	721.8
80°	854.4	446.8	363.4	412.4	458.3	846.2	1019.7	743.1	600.6	594.2	600.6
82.5°	396.1	288.0	243.9	270.0	271.7	564.6	777.4	554.9	456.7	694.0	585.9
85°	170.2	144.1	137.5	134.2	124.4	252.0	437.0	297.9	464.8	207.9	191.5
87.5°	50.7	57.3	50.7	37.7	27.8	27.8	44.2	16.4	11.4	8.2	8.2
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)