

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: P647902

Luminaire Tested: **GALN-SA4A-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12077 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

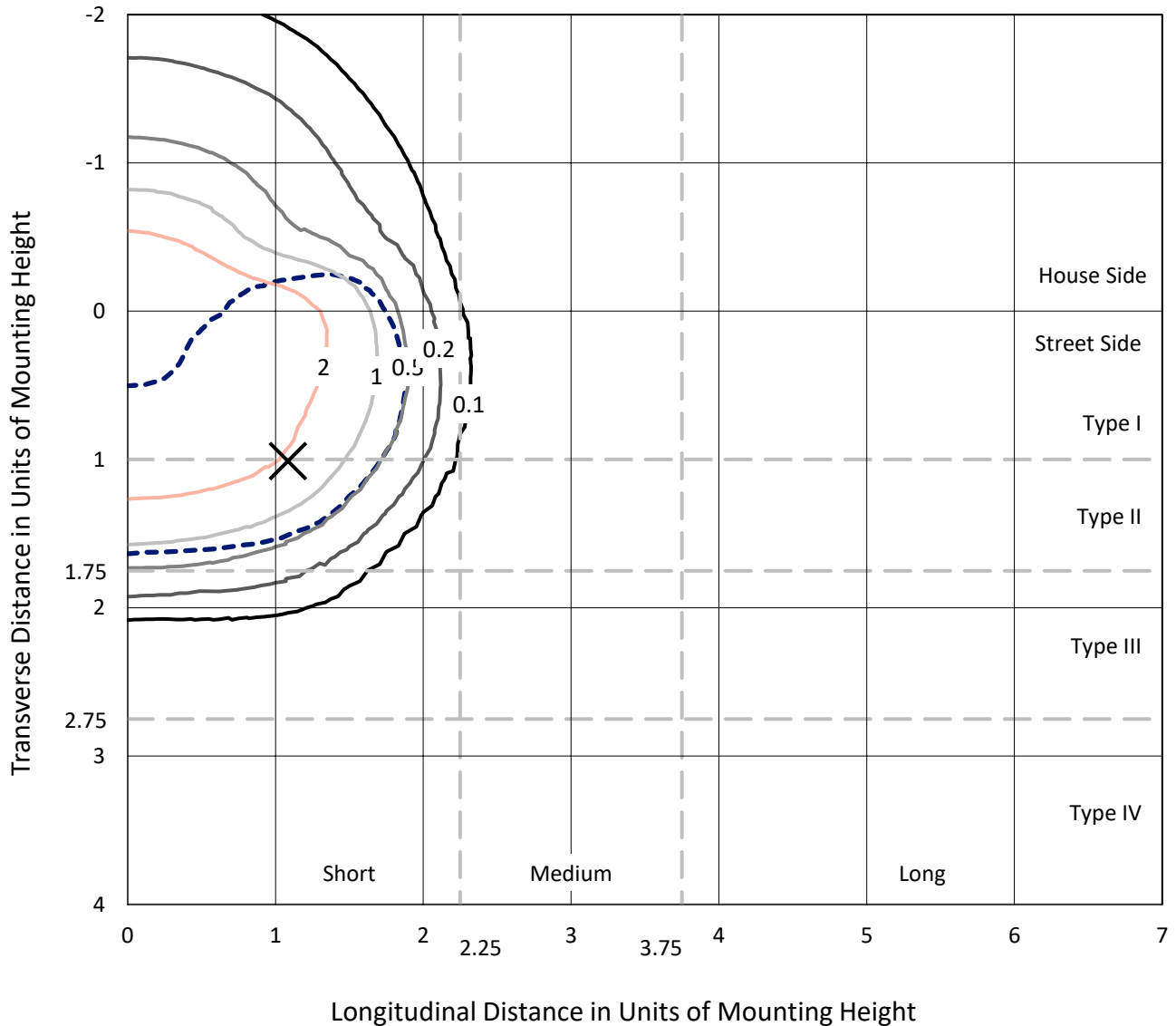
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

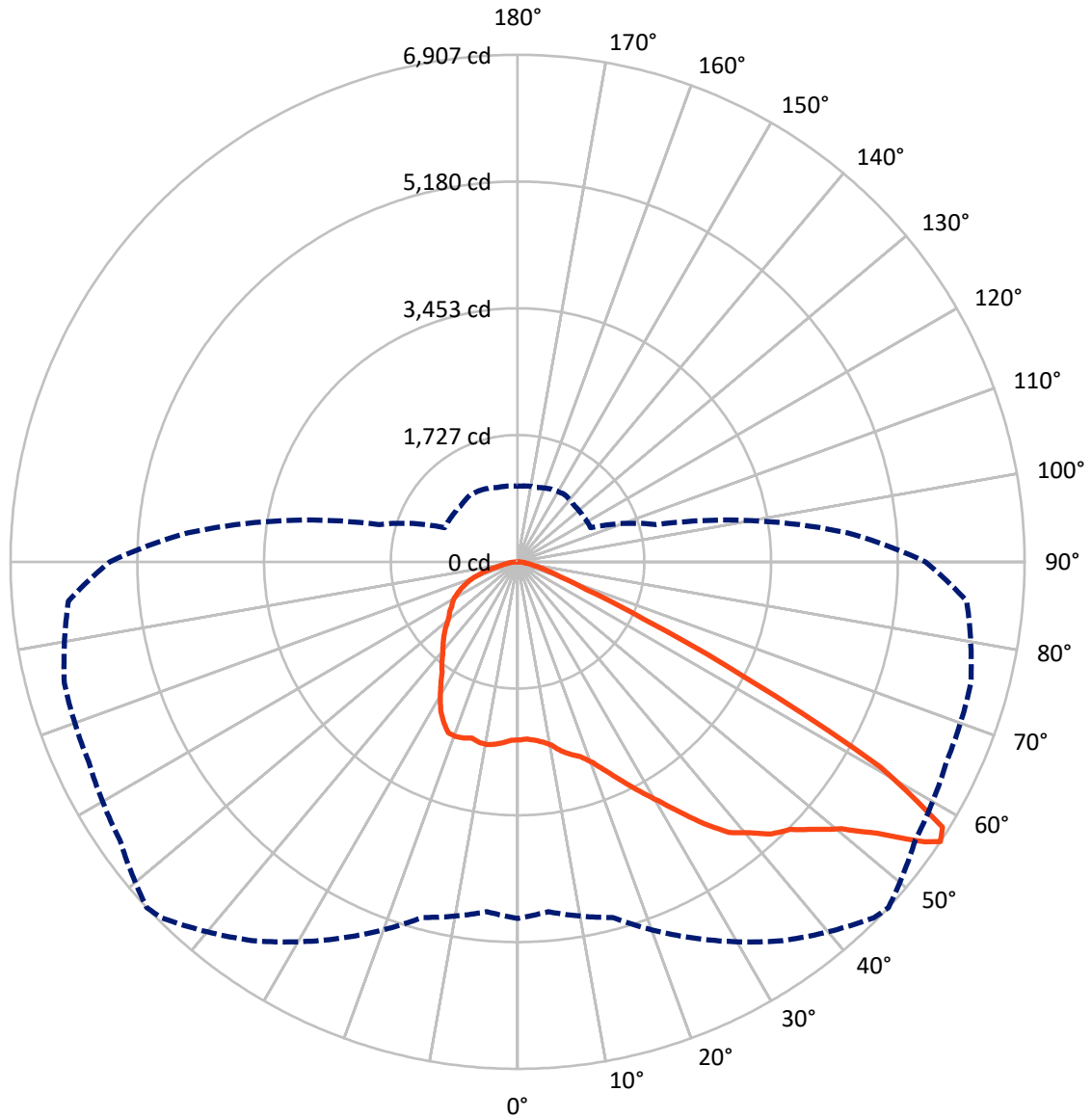
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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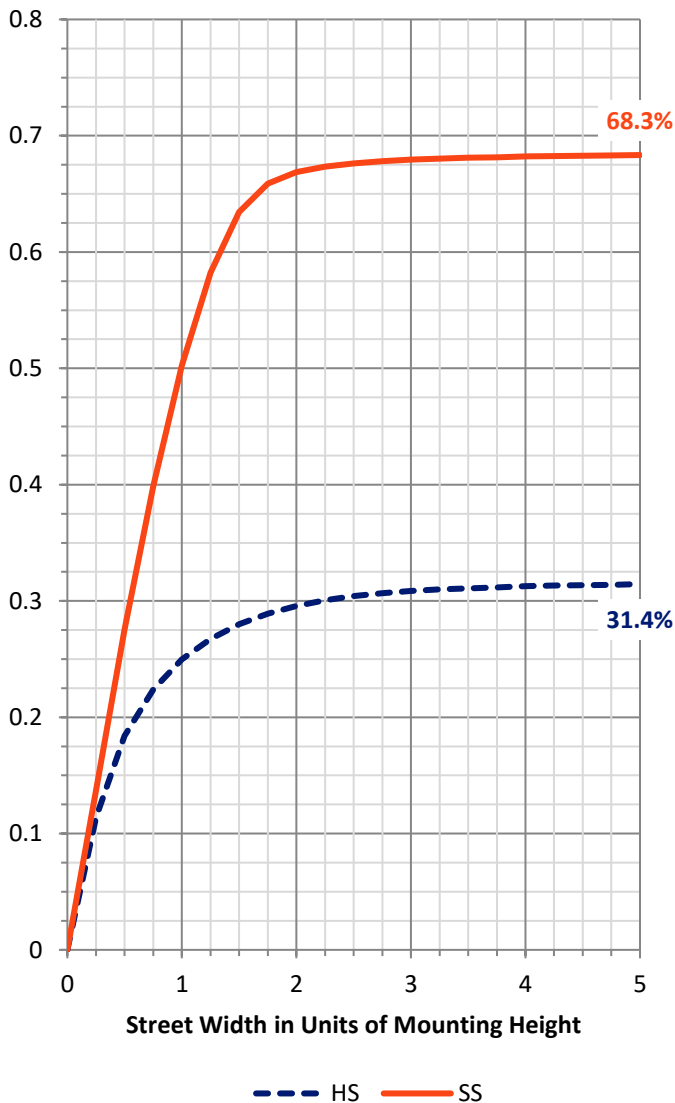
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3827.1	0.0	3827.1
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8250.0	0.0	8250.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	12077.0	0.0	12077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	2.0
10°-20°	745.6	6.2
20°-30°	1318.1	10.9
30°-40°	1979.7	16.4
40°-50°	2717.0	22.5
50°-60°	3236.9	26.8
60°-70°	1385.2	11.5
70°-80°	392.0	3.2
80°-90°	66.0	0.5
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°	12077.0	100.0
0°-180°	12077.0	100.0

Coefficient of Utilization

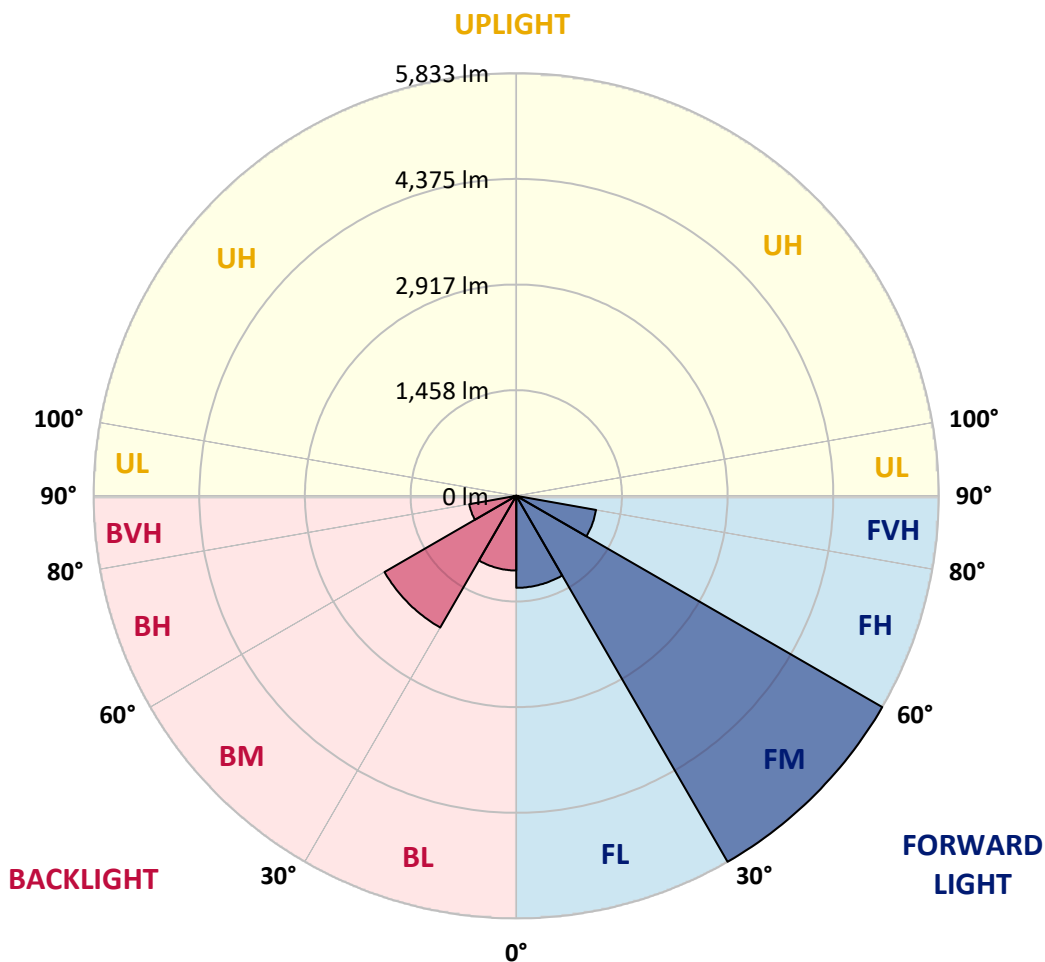


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1269.7	10.5			
FM (30°-60°)	5833.5	48.3			
FH (60°-80°)	1118.8	9.3			G1/1800
FVH (80°-90°)	28.0	0.2			G1/100
BL (0°-30°)	1030.4	8.5	B3/2500		
BM (30°-60°)	2100.2	17.4	B2/2500		
BH (60°-80°)	658.5	5.5	B2/1000		G2/1000
BVH (80°-90°)	38.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9
2.5°	2416.7	2412.0	2409.0	2433.6	2424.3	2425.9	2416.7	2425.9	2432.1	2418.2	2438.2
5°	2412.0	2425.9	2413.6	2421.3	2441.3	2435.1	2441.3	2459.8	2455.2	2450.6	2444.4
7.5°	2455.2	2456.7	2466.0	2469.0	2475.2	2469.0	2478.3	2495.2	2490.6	2464.4	2467.5
10°	2516.8	2519.9	2521.4	2538.3	2549.1	2550.6	2539.9	2524.5	2522.9	2558.4	2533.7
12.5°	2587.7	2579.9	2598.4	2604.6	2616.9	2630.7	2644.6	2612.2	2632.3	2633.9	2604.6
15°	2690.9	2698.5	2677.0	2677.0	2681.6	2683.1	2721.6	2706.2	2703.2	2686.2	2698.5
17.5°	2844.9	2792.5	2790.9	2769.4	2766.3	2778.6	2792.5	2804.8	2846.4	2812.5	2746.3
20°	2957.3	2969.6	2925.0	2898.7	2903.4	2931.1	2917.2	2972.7	3001.9	2946.5	2881.8
22.5°	3156.0	3114.4	3125.2	3066.6	3071.2	3100.5	3099.0	3156.0	3173.0	3085.1	2991.1
25°	3290.0	3279.2	3288.4	3242.2	3248.4	3271.5	3308.5	3402.4	3374.7	3277.6	3060.5
27.5°	3485.6	3464.1	3456.3	3439.4	3433.2	3494.8	3538.0	3638.1	3618.1	3476.4	3183.7
30°	3685.8	3672.0	3679.6	3610.3	3635.0	3765.9	3778.2	3915.3	3906.1	3656.5	3320.8
32.5°	3824.5	3832.2	3846.0	3807.5	3916.9	4021.6	4063.2	4218.7	4226.5	3966.1	3585.7
35°	4047.8	4021.6	4029.3	4073.9	4124.8	4315.8	4383.5	4486.7	4551.4	4291.2	3839.8
37.5°	4188.0	4215.7	4183.3	4254.2	4386.7	4616.2	4677.7	4784.1	4851.8	4611.6	4186.4
40°	4406.6	4362.0	4385.1	4435.9	4571.5	4870.3	4853.3	4962.7	4984.3	4884.1	4509.8
42.5°	4642.3	4620.8	4588.4	4704.0	4817.9	5035.1	5069.0	5018.2	5127.5	5150.6	4972.0
45°	4924.2	4950.4	4955.0	4958.1	5058.2	5247.7	5201.5	5156.8	5283.1	5450.9	5258.4
47.5°	5186.0	5102.9	5162.9	5246.1	5387.8	5389.4	5443.3	5337.0	5471.0	5620.4	5517.2
50°	5273.8	5233.8	5313.9	5471.0	5689.7	5712.8	5719.0	5568.0	5637.4	5755.9	5606.5
52.5°	5239.9	5226.1	5431.0	5674.3	5994.6	6111.7	6142.6	5956.2	5994.6	5940.8	5803.7
55°	5078.2	5119.8	5326.2	5822.2	6313.5	6675.5	6734.0	6498.4	6253.4	6295.0	6144.0
56°	4856.4	4784.1	5015.0	5654.3	6299.6	6858.8	6906.5	6612.3	6446.0	6392.0	6141.0
57.5°	4120.1	4026.2	4329.7	5087.5	5950.0	6789.5	6824.9	6660.0	6413.6	6304.2	5692.8
60°	2412.0	2458.2	2843.3	3508.7	4589.9	5566.5	5685.0	5805.2	5640.4	5150.6	4237.2
62.5°	1164.4	1135.2	1410.9	2011.6	2797.1	3553.3	3517.9	3855.3	4040.1	3659.7	2675.4
65°	610.0	606.8	770.2	1098.2	1537.2	1866.8	1899.2	2080.9	2335.1	1885.3	1358.5
67.5°	448.2	460.6	542.1	771.6	988.9	1008.9	1004.3	1095.1	1119.8	947.3	834.8
70°	351.2	357.4	417.4	586.9	736.3	659.2	645.3	656.2	728.5	759.4	722.4
72.5°	254.2	260.3	311.2	395.8	460.6	449.8	459.0	519.1	608.4	640.7	602.2
75°	169.4	174.1	201.8	241.8	272.6	294.2	311.2	380.5	463.6	482.1	463.6
77.5°	117.1	121.7	140.2	171.0	174.1	187.9	194.1	226.4	277.3	300.4	288.1
80°	66.2	66.2	75.5	87.8	107.8	126.3	129.4	155.6	178.7	194.1	197.2
82.5°	30.8	32.3	40.0	53.9	70.9	87.8	90.9	107.8	124.7	140.2	144.8
85°	15.4	16.9	23.1	32.3	43.1	52.4	50.8	52.4	55.4	52.4	53.9
87.5°	4.6	4.6	6.2	7.7	6.2	7.7	7.7	9.2	10.8	12.3	13.9
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°	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9	2425.9
2.5°	2439.7	2444.4	2413.6	2442.9	2432.1	2430.5	2452.1	2449.0	2456.7	2453.6	2435.1
5°	2441.3	2430.5	2462.8	2433.6	2447.5	2476.7	2456.7	2502.9	2479.8	2495.2	2461.4
7.5°	2489.1	2492.1	2485.9	2498.3	2492.1	2506.0	2495.2	2506.0	2487.5	2489.1	2519.9
10°	2530.7	2521.4	2532.1	2516.8	2527.5	2522.9	2498.3	2490.6	2496.8	2489.1	2509.0
12.5°	2607.6	2590.7	2583.0	2564.6	2552.2	2506.0	2467.5	2445.9	2475.2	2479.8	2470.6
15°	2686.2	2687.7	2652.3	2610.8	2533.7	2464.4	2473.7	2481.3	2481.3	2493.7	2470.6
17.5°	2735.5	2735.5	2703.2	2620.0	2541.4	2501.4	2492.1	2467.5	2445.9	2442.9	2441.3
20°	2821.8	2795.5	2721.6	2618.4	2538.3	2519.9	2450.6	2392.0	2347.4	2331.9	2330.4
22.5°	2920.4	2854.1	2750.9	2621.5	2533.7	2507.6	2378.1	2290.4	2210.3	2176.3	2181.0
25°	3011.2	2904.9	2767.8	2607.6	2516.8	2390.5	2245.7	2124.0	2040.8	2013.1	1999.2
27.5°	3074.4	2958.8	2767.8	2620.0	2453.6	2259.6	2111.7	1956.1	1883.7	1865.3	1868.3
30°	3159.1	3026.6	2815.6	2593.8	2327.3	2090.1	1913.0	1811.3	1768.2	1752.8	1763.6
32.5°	3357.7	3203.7	2881.8	2530.7	2177.9	1920.7	1777.5	1720.5	1657.3	1626.5	1615.7
35°	3573.4	3371.6	2946.5	2424.3	2010.0	1766.7	1677.3	1625.0	1549.5	1515.6	1521.8
37.5°	3878.4	3587.2	2951.1	2248.8	1828.3	1680.4	1598.8	1517.1	1455.5	1403.1	1387.8
40°	4289.6	3881.4	2940.3	2063.9	1682.0	1578.8	1518.7	1417.0	1347.7	1310.7	1318.5
42.5°	4651.6	4226.5	2895.7	1854.5	1549.5	1509.5	1441.7	1341.6	1273.8	1235.3	1232.2
45°	4956.5	4480.6	2811.0	1675.8	1438.6	1432.4	1353.9	1276.8	1223.0	1187.5	1202.9
47.5°	5238.4	4685.5	2683.1	1497.1	1337.0	1349.3	1273.8	1226.0	1192.2	1159.8	1158.3
50°	5340.1	4682.3	2570.7	1349.3	1255.3	1249.1	1246.1	1195.2	1159.8	1132.1	1144.4
52.5°	5509.5	4734.7	2449.0	1247.6	1181.4	1182.9	1193.7	1156.7	1116.7	1099.7	1115.1
55°	5752.9	4742.5	2181.0	1129.0	1119.8	1130.6	1130.6	1105.9	1072.0	1058.1	1050.5
56°	5554.1	4513.0	1956.1	1098.2	1089.0	1089.0	1118.2	1090.5	1048.9	1038.1	1028.9
57.5°	5122.9	3953.8	1637.3	1061.2	1047.3	1069.0	1084.4	1055.1	1016.6	1001.1	1010.4
60°	3533.4	2675.4	1230.6	981.2	981.2	1016.6	1028.9	985.8	968.8	967.3	954.9
62.5°	2062.4	1558.7	962.6	908.7	911.8	941.1	950.3	925.7	904.1	930.3	942.7
65°	1093.6	930.3	825.6	831.7	833.3	856.4	896.5	894.9	893.3	901.1	902.6
67.5°	791.7	773.2	750.1	743.9	747.1	764.0	804.0	834.8	833.3	814.8	800.9
70°	705.4	679.3	665.4	667.0	654.6	674.6	707.0	727.0	691.5	670.0	660.8
72.5°	586.9	579.1	569.9	571.4	546.8	542.1	505.2	505.2	496.0	489.8	500.6
75°	448.2	445.1	449.8	442.1	415.9	388.1	366.6	346.6	315.8	303.4	297.3
77.5°	283.4	292.7	303.4	286.5	275.7	255.6	234.1	214.1	189.5	175.6	175.6
80°	192.5	200.2	208.0	204.8	192.5	174.1	157.1	135.5	118.6	107.8	106.3
82.5°	146.3	152.5	163.3	151.0	138.6	123.2	109.4	94.0	78.5	66.2	66.2
85°	52.4	60.1	66.2	72.4	77.0	78.5	67.8	55.4	44.6	35.4	33.9
87.5°	13.9	15.4	16.9	15.4	15.4	15.4	16.9	15.4	13.9	10.8	10.8
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)