

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: P651810

Luminaire Tested: **GALN-SA3A-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10022.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

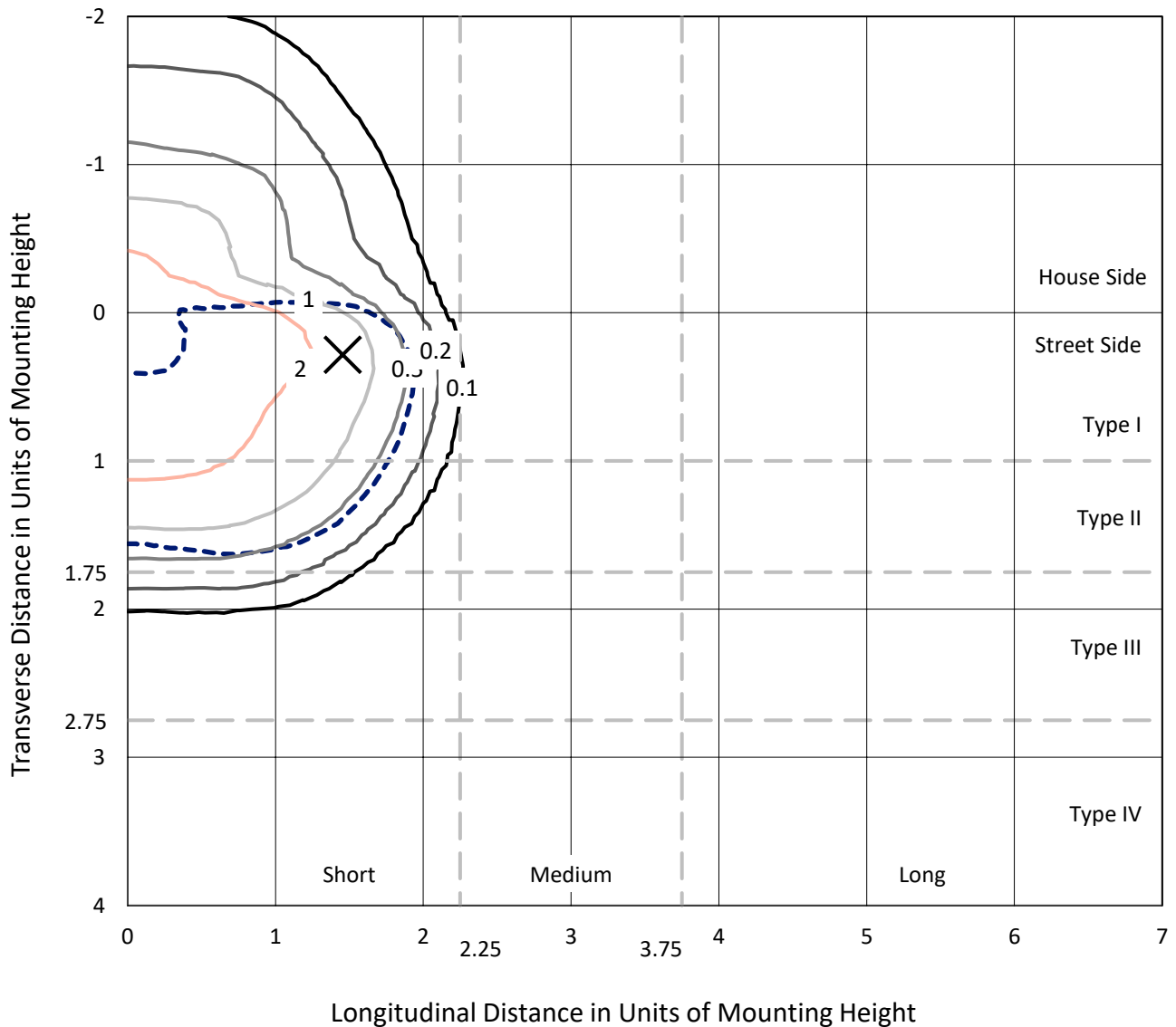
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

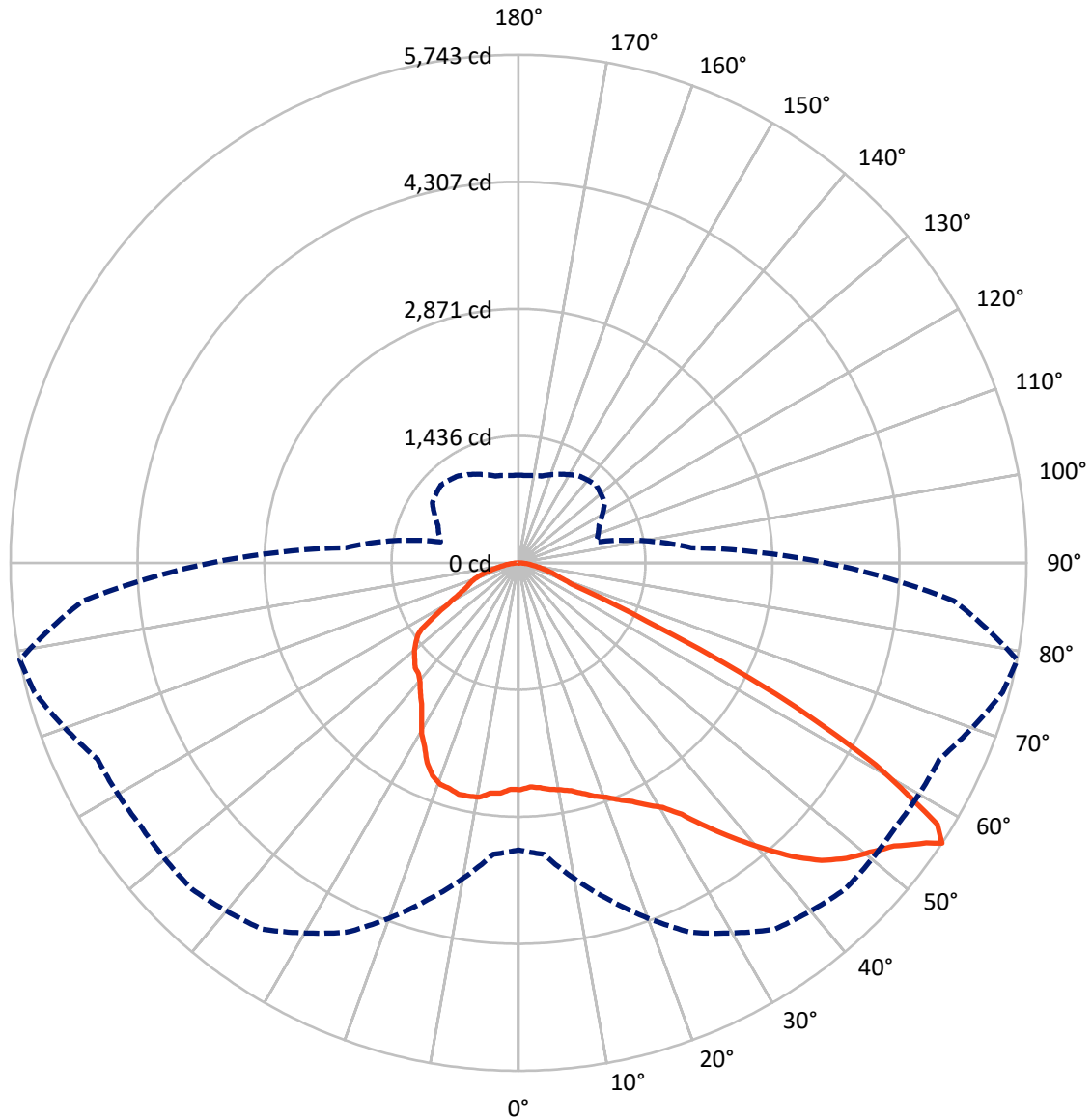
× Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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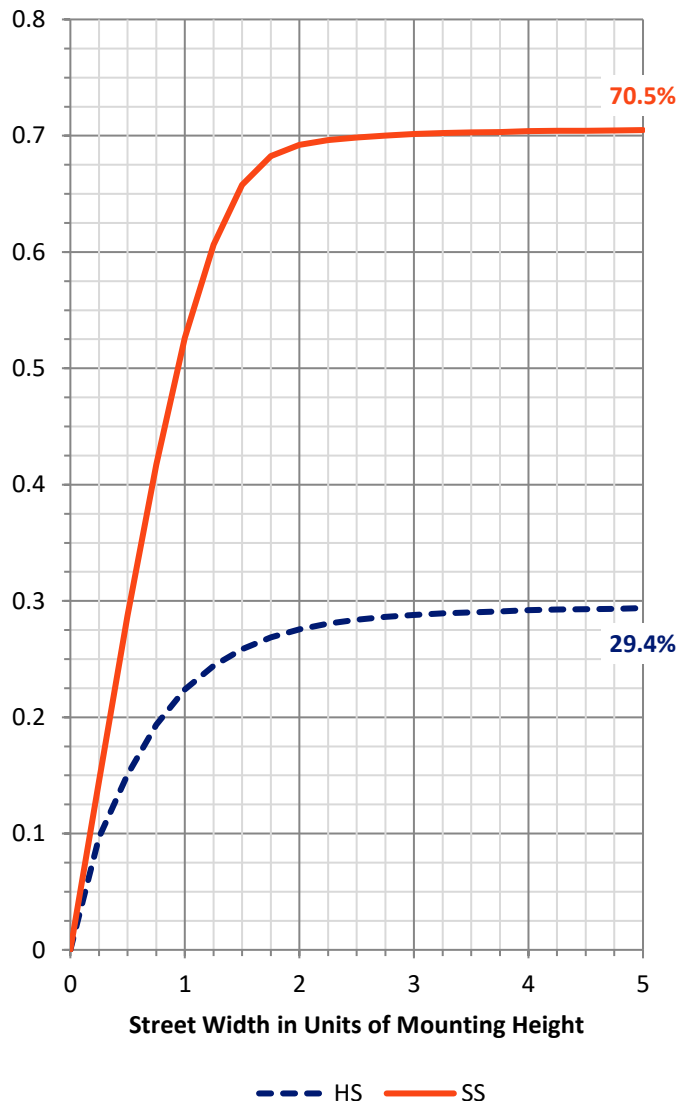
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2959.8	0.0	2959.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7062.4	0.0	7062.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	10022.2	0.0	10022.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	2.3
10°-20°	638.0	6.4
20°-30°	1091.6	10.9
30°-40°	1673.0	16.7
40°-50°	2261.0	22.6
50°-60°	2596.8	25.9
60°-70°	1183.7	11.8
70°-80°	291.8	2.9
80°-90°	53.0	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°	10022.2	100.0
0°-180°	10022.2	100.0

Coefficient of Utilization

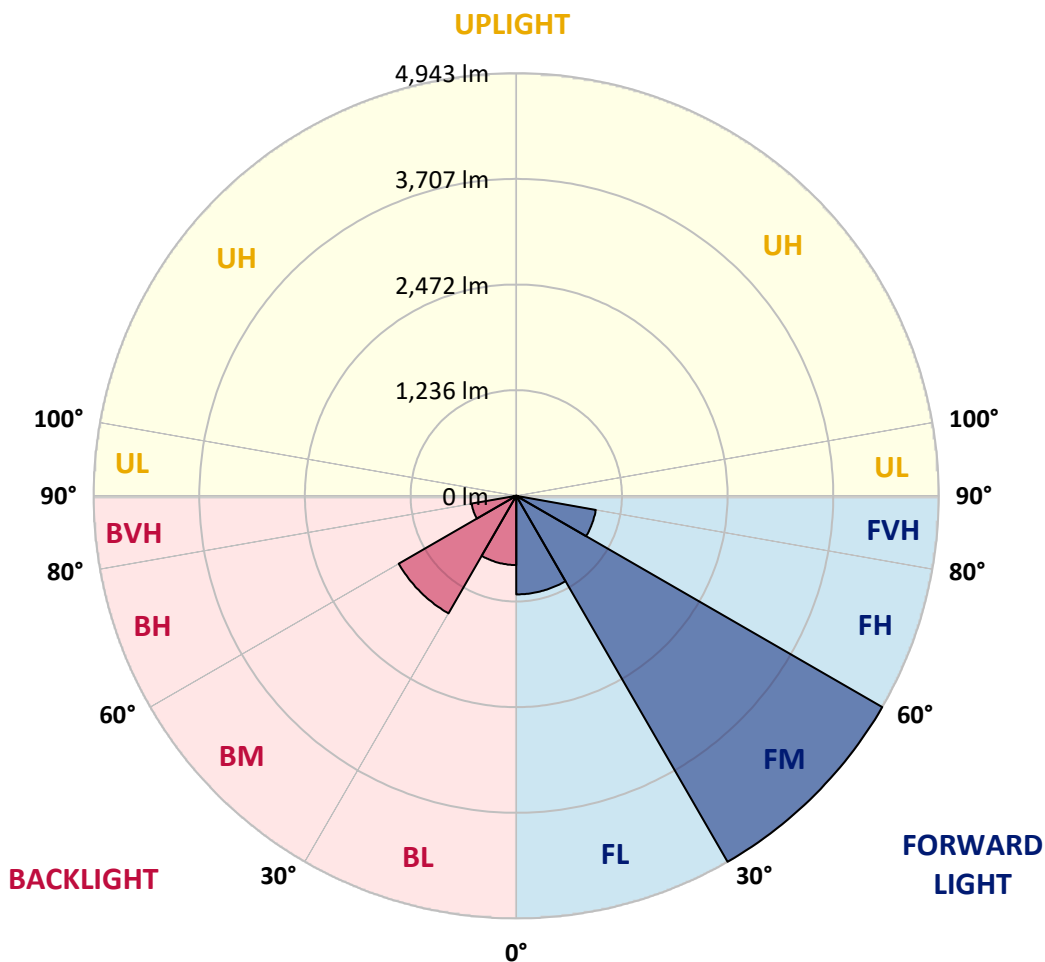


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.1	11.5			
FM (30°-60°)	4943.2	49.3			
FH (60°-80°)	944.9	9.4			G1/1800
FVH (80°-90°)	21.2	0.2			G1/100
BL (0°-30°)	809.6	8.1	B2/1000		
BM (30°-60°)	1587.6	15.8	B2/2500		
BH (60°-80°)	530.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	31.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3
2.5°	2439.4	2433.2	2448.2	2459.4	2473.1	2490.6	2499.4	2504.3	2548.1	2536.8	2570.5
5°	2387.0	2370.8	2382.0	2390.7	2414.5	2435.7	2459.4	2496.8	2536.8	2554.3	2595.5
7.5°	2340.8	2332.1	2329.6	2335.8	2368.3	2395.8	2437.0	2491.9	2556.8	2585.5	2609.2
10°	2264.6	2252.2	2270.9	2312.1	2320.8	2378.3	2425.7	2504.3	2560.5	2610.5	2680.4
12.5°	2230.9	2218.5	2222.2	2246.0	2307.1	2362.0	2418.2	2506.9	2625.4	2645.4	2739.1
15°	2284.7	2272.1	2275.9	2269.7	2328.3	2357.1	2445.7	2556.8	2670.4	2704.1	2804.0
17.5°	2406.9	2408.2	2392.0	2378.3	2364.6	2425.7	2486.9	2586.7	2687.9	2772.8	2847.7
20°	2640.4	2599.3	2566.8	2489.4	2468.2	2494.4	2571.8	2667.9	2759.1	2829.0	2913.8
22.5°	2820.2	2824.0	2777.7	2650.4	2604.2	2615.5	2681.6	2760.2	2860.2	2910.1	3007.5
25°	3081.2	3054.9	3005.0	2903.9	2800.3	2808.9	2857.6	2928.9	2956.3	2991.3	3097.4
27.5°	3319.6	3327.1	3228.4	3133.6	3005.0	2980.0	3067.4	3079.9	3033.7	3099.8	3136.1
30°	3561.8	3555.6	3490.7	3379.5	3253.4	3258.5	3297.1	3235.9	3172.3	3208.5	3233.5
32.5°	3812.8	3741.5	3739.1	3639.2	3543.0	3496.9	3449.4	3479.4	3380.7	3388.2	3364.5
35°	4013.8	4023.7	3966.2	3895.1	3847.7	3766.5	3636.7	3690.4	3671.6	3662.9	3560.5
37.5°	4159.8	4121.1	4149.8	4126.1	4081.1	3980.0	3845.1	3896.4	3905.1	3947.6	3829.0
40°	4279.6	4263.4	4339.6	4352.0	4320.8	4102.3	3860.2	4012.5	4143.5	4235.9	4094.8
42.5°	4337.0	4372.0	4451.9	4548.0	4478.2	4244.7	3937.6	4101.1	4393.2	4539.3	4347.0
45°	4414.5	4369.5	4488.1	4664.2	4665.4	4364.5	4012.5	4221.0	4588.0	4800.3	4519.4
47.5°	4335.8	4358.3	4480.6	4704.1	4761.5	4490.6	4214.7	4390.8	4802.7	4991.3	4679.2
50°	4159.8	4204.7	4428.2	4660.4	4833.9	4624.2	4447.0	4574.3	5001.3	5144.8	4705.3
52.5°	3976.2	4001.2	4350.8	4694.1	4866.4	4796.5	4757.8	4827.7	5243.4	5318.3	4737.8
55°	3476.9	3595.5	4094.8	4679.2	5025.0	5107.3	5077.4	5179.7	5518.1	5593.0	4915.1
56°	3245.9	3308.3	3941.3	4609.2	5056.2	5220.9	5206.0	5252.1	5664.1	5742.8	4942.6
57.5°	2818.9	2824.0	3360.8	4299.6	4938.8	5254.7	5239.7	5275.8	5635.5	5581.7	4701.6
60°	1764.0	1841.5	2287.1	3307.1	4199.7	4875.1	4960.0	4669.1	4751.6	4637.9	3657.9
62.5°	913.8	902.6	1198.5	1933.8	2787.7	3490.7	3569.3	3555.6	3428.2	3262.2	2389.5
65°	455.7	458.2	626.7	957.6	1428.2	1827.7	2047.4	2071.1	1732.8	1594.3	1133.6
67.5°	330.8	343.3	450.7	585.5	672.9	752.8	922.6	905.1	685.4	651.7	604.3
70°	257.2	268.4	365.8	446.9	405.8	405.8	441.9	456.9	488.1	501.9	518.1
72.5°	187.3	196.0	279.6	308.4	265.9	285.9	330.8	365.8	398.2	403.3	421.9
75°	128.6	136.1	183.5	169.8	159.8	197.2	242.2	274.7	298.4	310.8	322.1
77.5°	83.7	86.1	104.9	88.6	102.3	127.3	157.3	184.8	208.5	218.5	221.0
80°	37.4	41.2	44.9	56.2	71.1	91.2	112.4	134.8	149.8	153.6	161.1
82.5°	21.2	21.2	27.5	39.9	52.4	66.2	81.2	97.4	114.9	118.6	117.3
85°	11.3	11.3	16.2	23.7	32.5	38.7	37.4	38.7	41.2	47.4	46.2
87.5°	3.8	3.8	5.0	5.0	6.2	7.5	6.2	8.7	11.3	11.3	11.3
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°	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3	2564.3
2.5°	2560.5	2571.8	2556.8	2589.3	2589.3	2583.0	2551.8	2561.8	2569.3	2569.3	2575.5
5°	2609.2	2605.5	2615.5	2576.7	2553.0	2544.3	2493.1	2468.2	2446.9	2445.7	2427.0
7.5°	2636.7	2626.7	2623.0	2594.2	2489.4	2425.7	2315.9	2252.2	2238.4	2189.7	2208.5
10°	2680.4	2699.1	2680.4	2524.3	2378.3	2232.2	2124.9	2026.2	1987.5	1956.3	1937.6
12.5°	2770.3	2761.5	2652.9	2441.9	2237.2	2063.6	1903.9	1800.2	1761.6	1734.1	1731.6
15°	2846.4	2802.7	2636.7	2312.1	2017.5	1832.7	1701.6	1627.9	1610.5	1613.0	1624.2
17.5°	2872.7	2842.7	2551.8	2177.3	1853.9	1636.7	1575.5	1564.3	1580.5	1599.2	1604.2
20°	2913.8	2866.4	2516.9	1993.8	1651.6	1514.4	1510.6	1550.6	1580.5	1608.0	1611.7
22.5°	3000.0	2880.2	2403.2	1820.2	1513.1	1478.1	1514.4	1548.0	1594.3	1616.7	1596.7
25°	3025.0	2850.1	2243.5	1611.7	1425.7	1455.7	1494.4	1540.5	1573.0	1585.5	1594.3
27.5°	3046.2	2804.0	2027.5	1473.2	1398.2	1454.4	1494.4	1533.1	1550.6	1561.8	1571.7
30°	3106.1	2790.3	1840.2	1380.8	1380.8	1429.4	1480.7	1490.6	1514.4	1528.1	1545.6
32.5°	3136.1	2695.4	1647.9	1322.1	1363.3	1442.0	1445.7	1464.4	1465.7	1476.9	1458.2
35°	3214.7	2628.0	1469.4	1279.7	1370.7	1429.4	1448.2	1436.9	1375.8	1345.9	1352.1
37.5°	3272.2	2594.2	1340.8	1274.6	1372.0	1443.2	1453.2	1368.3	1304.6	1254.7	1267.1
40°	3427.0	2510.6	1243.4	1265.9	1383.3	1458.2	1430.7	1338.3	1223.5	1172.3	1163.5
42.5°	3545.6	2450.7	1182.3	1255.9	1392.0	1479.4	1419.4	1278.4	1161.1	1113.6	1126.1
45°	3682.9	2437.0	1149.8	1258.4	1407.0	1490.6	1405.7	1232.2	1107.3	1088.7	1084.9
47.5°	3731.6	2338.3	1114.8	1237.2	1403.2	1486.9	1359.6	1197.2	1087.4	1089.9	1099.9
50°	3650.4	2237.2	1088.7	1193.5	1378.2	1453.2	1287.2	1151.1	1076.1	1107.3	1124.8
52.5°	3546.8	2133.5	1034.9	1134.8	1327.1	1400.8	1253.4	1148.6	1064.9	1055.0	1058.7
55°	3578.0	2048.7	960.1	1055.0	1244.7	1303.4	1216.0	1124.8	1037.5	1000.0	1012.5
56°	3476.9	1961.3	911.4	1005.0	1188.5	1241.0	1197.2	1103.6	1015.0	990.0	990.0
57.5°	3191.0	1667.9	847.7	925.1	1069.9	1132.3	1161.1	1091.1	990.0	946.3	947.6
60°	2353.3	1186.0	760.3	815.3	886.4	936.3	1069.9	1056.2	927.6	897.6	886.4
62.5°	1450.6	866.4	697.9	719.1	755.3	796.5	933.8	956.3	861.4	829.0	821.5
65°	812.7	663.0	650.4	659.2	676.7	697.9	775.3	825.2	760.3	710.4	707.9
67.5°	594.3	593.0	603.0	610.5	618.0	618.0	636.7	656.7	647.9	608.0	604.3
70°	528.1	531.8	539.3	540.6	543.0	534.4	519.3	513.1	523.1	498.1	493.2
72.5°	435.7	448.2	456.9	458.2	444.5	433.2	413.3	392.0	384.5	379.5	378.3
75°	334.5	343.3	347.1	345.8	340.9	324.6	300.9	279.6	265.9	251.0	258.4
77.5°	226.0	238.4	244.7	244.7	237.2	212.3	201.0	184.8	171.1	154.8	157.3
80°	158.5	167.3	177.3	176.0	163.6	151.0	134.8	119.8	108.6	96.1	94.9
82.5°	118.6	123.6	128.6	126.1	117.3	104.9	93.6	79.9	67.4	58.7	58.7
85°	42.5	46.2	56.2	58.7	63.7	63.7	53.7	44.9	36.2	29.9	29.9
87.5°	12.4	12.4	13.7	13.7	12.4	13.7	11.3	12.4	13.7	8.7	8.7
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)