

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: P648345

Luminaire Tested: **GALN-SA3B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648345
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-SA3B-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 11610.3 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

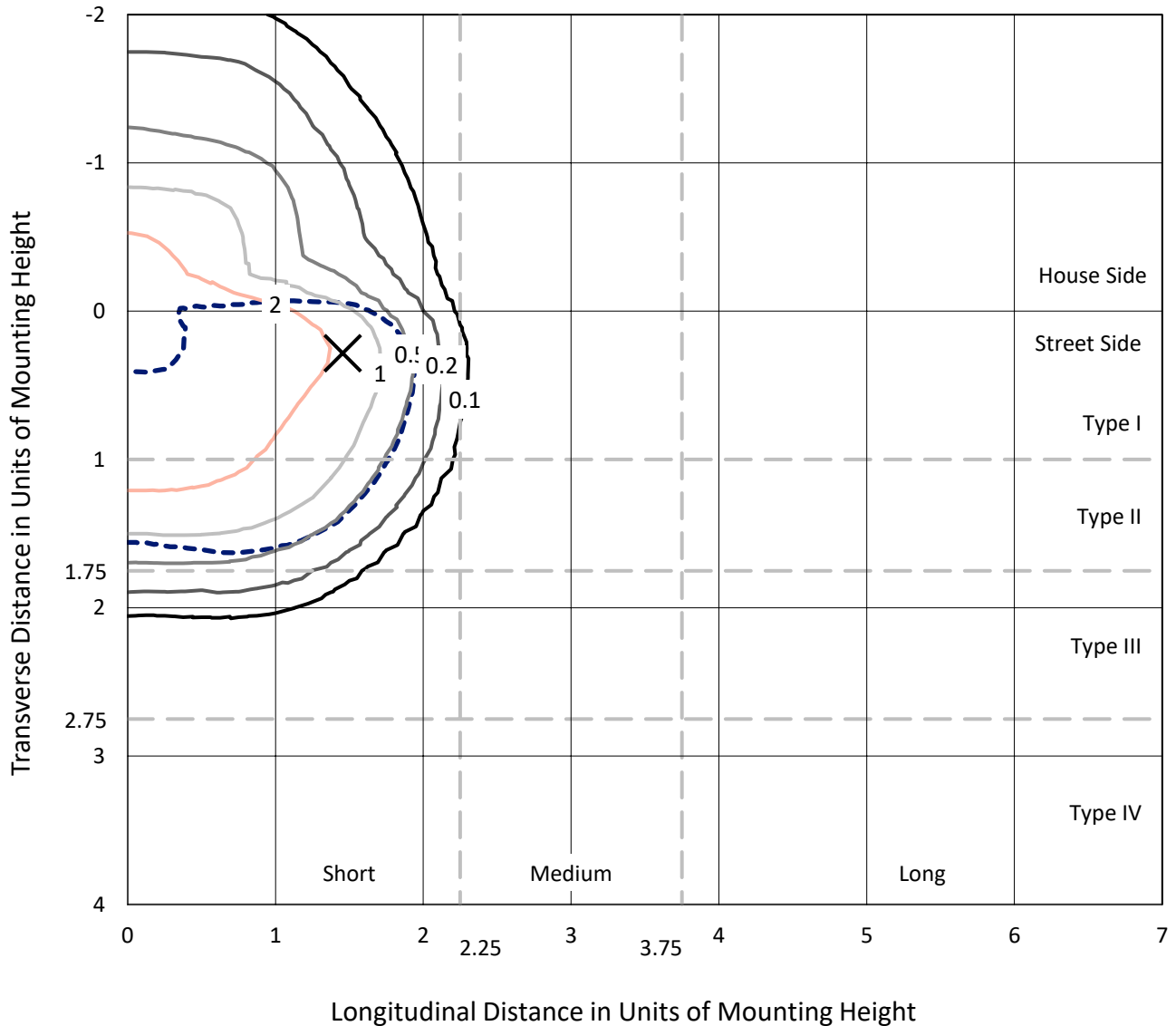
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

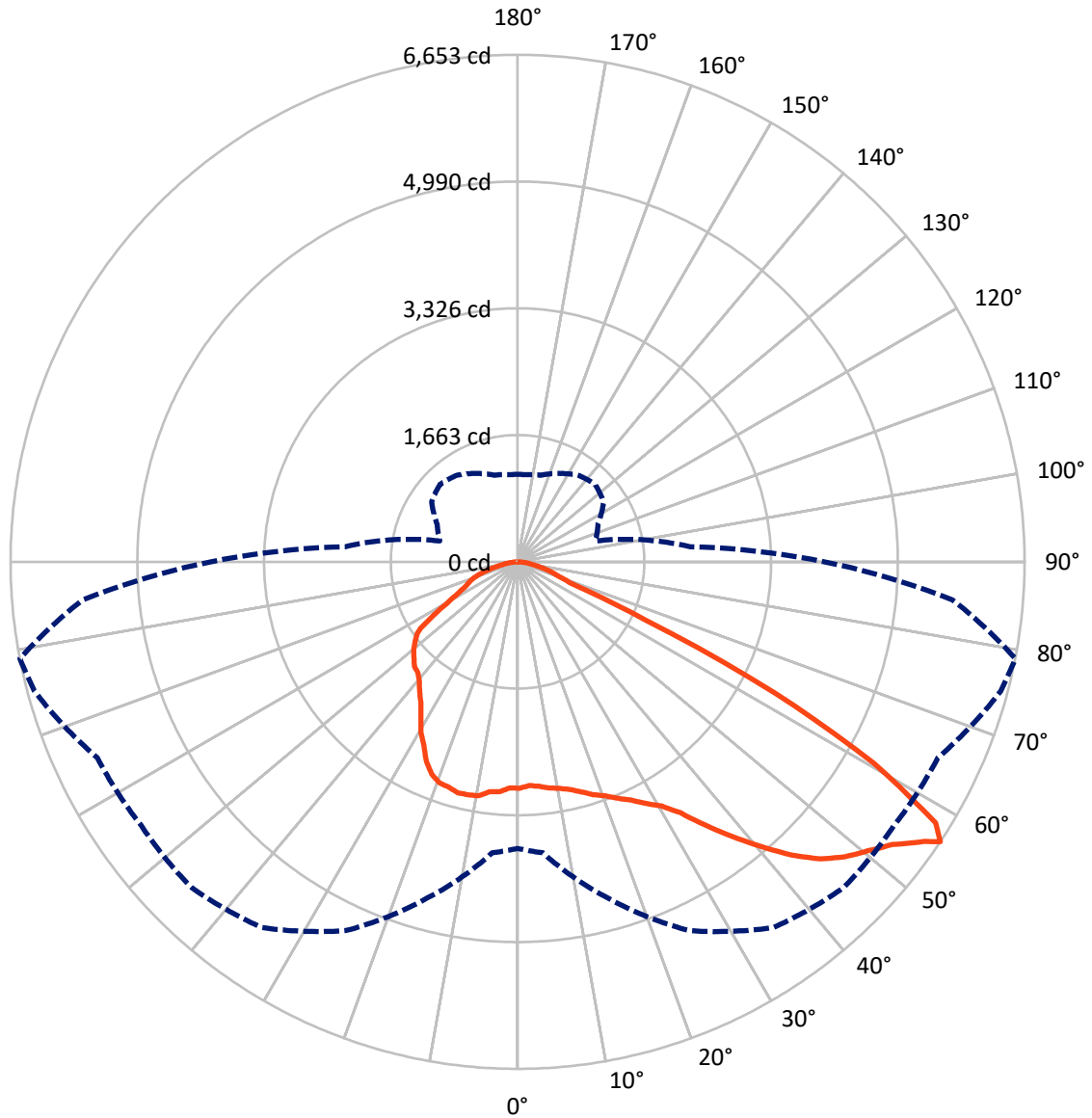
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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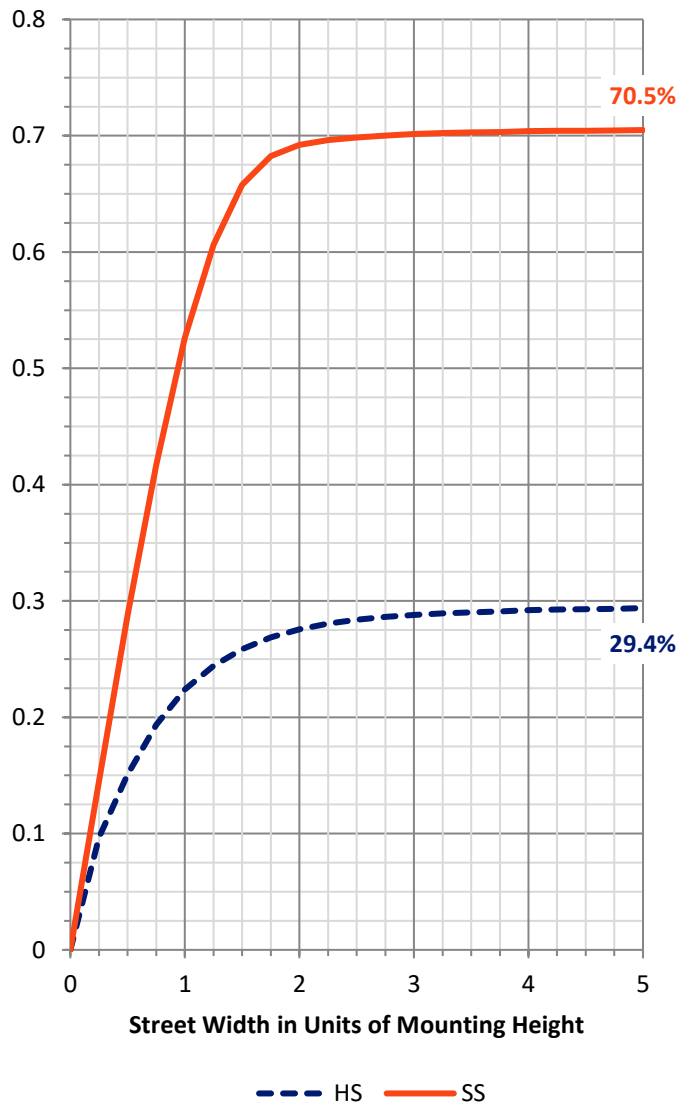
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3428.8	0.0	3428.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	8181.5	0.0	8181.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	11610.3	0.0	11610.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.1	2.3
10°-20°	739.2	6.4
20°-30°	1264.5	10.9
30°-40°	1938.1	16.7
40°-50°	2619.3	22.6
50°-60°	3008.3	25.9
60°-70°	1371.3	11.8
70°-80°	338.1	2.9
80°-90°	61.5	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°	11610.3	100.0
0°-180°	11610.3	100.0

Coefficient of Utilization



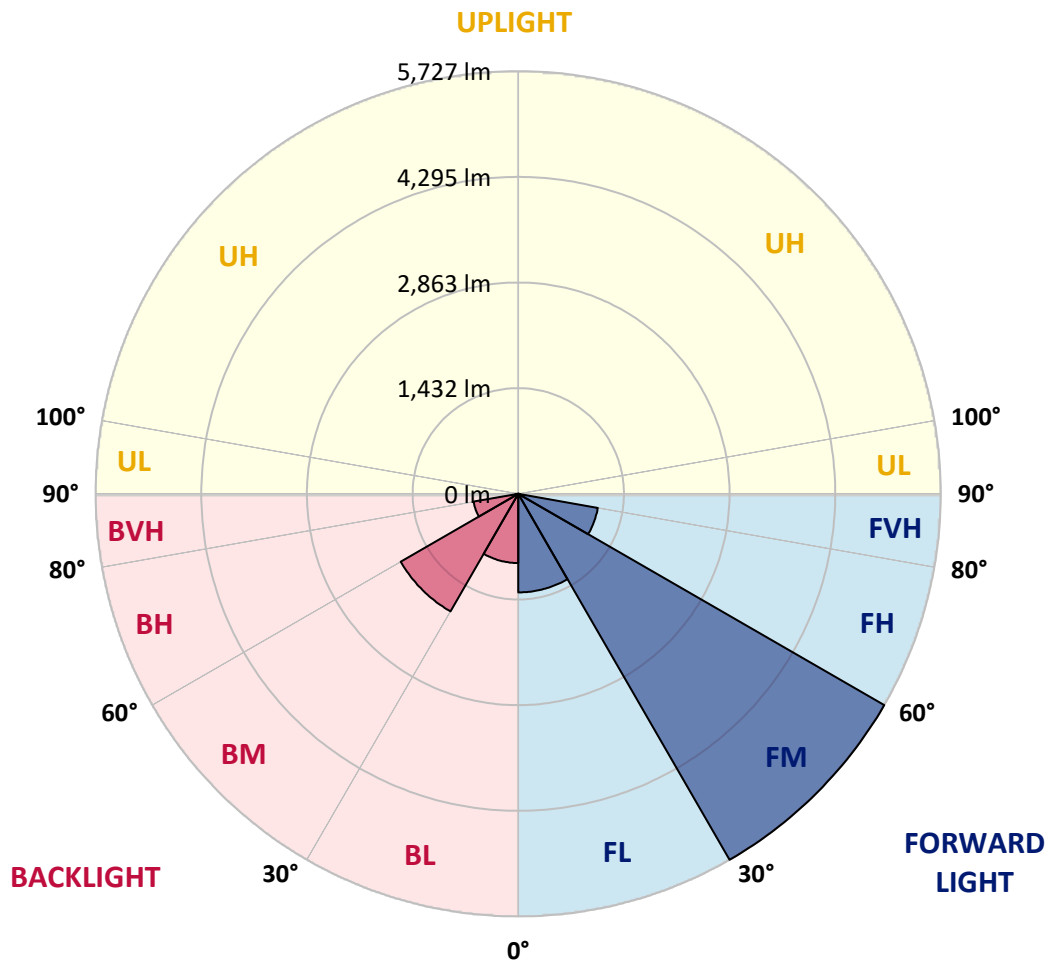
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.9	11.5			
FM (30°-60°)	5726.6	49.3			
FH (60°-80°)	1094.6	9.4			G1/1800
FVH (80°-90°)	24.5	0.2			G1/100
BL (0°-30°)	937.9	8.1	B2/1000		
BM (30°-60°)	1839.2	15.8	B2/2500		
BH (60°-80°)	614.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	36.9	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°	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6
2.5°	2826.0	2818.8	2836.1	2849.1	2865.1	2885.3	2895.4	2901.2	2951.8	2938.8	2977.8
5°	2765.2	2746.5	2759.4	2769.6	2797.0	2821.6	2849.1	2892.6	2938.8	2959.0	3006.8
7.5°	2711.8	2701.6	2698.7	2706.0	2743.6	2775.3	2823.1	2886.8	2961.9	2995.2	3022.7
10°	2623.5	2609.0	2630.7	2678.5	2688.6	2755.1	2810.1	2901.2	2966.3	3024.1	3105.1
12.5°	2584.4	2570.0	2574.3	2601.8	2672.7	2736.4	2801.4	2904.1	3041.5	3064.7	3173.1
15°	2646.7	2632.2	2636.5	2629.3	2697.3	2730.6	2833.2	2961.9	3093.6	3132.6	3248.3
17.5°	2788.4	2789.8	2771.0	2755.1	2739.2	2810.1	2881.0	2996.6	3113.8	3212.2	3298.9
20°	3058.9	3011.1	2973.5	2883.9	2859.3	2889.7	2979.3	3090.7	3196.2	3277.2	3375.6
22.5°	3267.1	3271.5	3217.9	3070.4	3016.9	3029.9	3106.6	3197.7	3313.4	3371.2	3484.0
25°	3569.4	3539.0	3481.1	3364.0	3244.0	3254.1	3310.5	3392.9	3424.8	3465.2	3588.2
27.5°	3845.6	3854.3	3740.0	3630.1	3481.1	3452.2	3553.5	3567.9	3514.4	3591.1	3633.0
30°	4126.2	4119.0	4043.7	3915.0	3769.0	3774.8	3819.6	3748.7	3674.9	3716.9	3745.8
32.5°	4416.9	4334.5	4331.6	4215.8	4104.5	4051.0	3996.0	4030.7	3916.5	3925.2	3897.7
35°	4649.8	4661.3	4594.8	4512.4	4457.4	4363.3	4212.9	4275.2	4253.5	4243.3	4124.8
37.5°	4819.0	4774.1	4807.4	4779.9	4727.8	4610.7	4454.5	4513.8	4523.9	4573.1	4435.7
40°	4957.8	4939.0	5027.2	5041.7	5005.5	4752.4	4471.9	4648.3	4800.2	4907.1	4743.7
42.5°	5024.3	5064.8	5157.4	5268.7	5187.8	4917.3	4561.5	4751.0	5089.4	5258.6	5035.9
45°	5114.0	5061.9	5199.3	5403.2	5404.7	5056.1	4648.3	4889.8	5315.0	5560.9	5235.5
47.5°	5022.9	5048.9	5190.7	5449.5	5516.1	5202.2	4882.6	5086.5	5563.8	5782.1	5420.6
50°	4819.0	4871.0	5129.9	5398.9	5599.9	5357.0	5151.6	5299.1	5793.7	5960.0	5450.9
52.5°	4606.3	4635.3	5040.2	5437.9	5637.5	5556.6	5511.7	5592.7	6074.3	6161.1	5488.6
55°	4027.8	4165.2	4743.7	5420.6	5821.2	5916.7	5882.0	6000.5	6392.5	6479.2	5693.9
56°	3760.3	3832.6	4565.8	5339.6	5857.4	6048.3	6030.9	6084.5	6561.7	6652.8	5725.8
57.5°	3265.7	3271.5	3893.3	4980.9	5721.4	6087.4	6070.0	6111.9	6528.4	6466.2	5446.6
60°	2043.6	2133.2	2649.5	3831.1	4865.2	5647.6	5746.0	5409.0	5504.5	5372.9	4237.5
62.5°	1058.7	1045.6	1388.4	2240.2	3229.5	4043.7	4134.9	4119.0	3971.5	3779.1	2768.1
65°	527.9	530.8	726.0	1109.3	1654.6	2117.3	2371.9	2399.3	2007.4	1846.9	1313.2
67.5°	383.3	397.7	522.1	678.3	779.6	872.1	1068.8	1048.5	794.0	755.0	700.0
70°	297.9	310.9	423.8	517.8	470.0	470.0	512.0	529.3	565.5	581.4	600.2
72.5°	217.0	227.1	323.9	357.2	308.0	331.2	383.3	423.8	461.3	467.1	488.8
75°	148.9	157.6	212.6	196.7	185.1	228.5	280.5	318.2	345.7	360.1	373.1
77.5°	96.9	99.8	121.5	102.7	118.6	147.5	182.2	214.1	241.6	253.1	256.0
80°	43.4	47.8	52.1	65.1	82.4	105.5	130.1	156.2	173.5	177.9	186.6
82.5°	24.6	24.6	31.8	46.3	60.8	76.7	94.0	112.8	133.0	137.4	135.9
85°	13.0	13.0	18.8	27.5	37.6	44.9	43.4	44.9	47.8	55.0	53.5
87.5°	4.3	4.3	5.8	5.8	7.2	8.7	7.2	10.1	13.0	13.0	13.0
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°	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6	2970.6
2.5°	2966.3	2979.3	2961.9	2999.5	2999.5	2992.3	2956.1	2967.7	2976.4	2976.4	2983.6
5°	3022.7	3018.4	3029.9	2985.1	2957.6	2947.4	2888.2	2859.3	2834.7	2833.2	2811.5
7.5°	3054.5	3043.0	3038.6	3005.3	2883.9	2810.1	2682.8	2609.0	2593.1	2536.8	2558.5
10°	3105.1	3126.8	3105.1	2924.3	2755.1	2585.9	2461.5	2347.3	2302.4	2266.3	2244.6
12.5°	3209.3	3199.1	3073.3	2828.9	2591.7	2390.7	2205.6	2085.5	2040.7	2008.9	2006.0
15°	3297.4	3246.9	3054.5	2678.5	2337.2	2123.1	1971.3	1885.9	1865.7	1868.6	1881.5
17.5°	3327.8	3293.1	2956.1	2522.3	2147.7	1896.0	1825.2	1812.2	1831.0	1852.7	1858.5
20°	3375.6	3320.6	2915.7	2309.7	1913.4	1754.3	1750.0	1796.3	1831.0	1862.8	1867.1
22.5°	3475.3	3336.5	2784.0	2108.6	1752.9	1712.3	1754.3	1793.4	1846.9	1872.9	1849.8
25°	3504.3	3301.8	2598.9	1867.1	1651.7	1686.3	1731.2	1784.7	1822.3	1836.8	1846.9
27.5°	3528.9	3248.3	2348.8	1706.6	1619.8	1684.9	1731.2	1776.0	1796.3	1809.3	1820.9
30°	3598.3	3232.4	2131.8	1599.6	1599.6	1656.0	1715.2	1726.8	1754.3	1770.2	1790.5
32.5°	3633.0	3122.4	1909.0	1531.6	1579.3	1670.5	1674.8	1696.4	1697.9	1710.9	1689.2
35°	3724.1	3044.4	1702.2	1482.5	1588.0	1656.0	1677.7	1664.7	1593.8	1559.0	1566.3
37.5°	3790.7	3005.3	1553.3	1476.7	1589.4	1671.9	1683.4	1585.1	1511.3	1453.5	1468.0
40°	3970.0	2908.5	1440.5	1466.5	1602.5	1689.2	1657.5	1550.4	1417.3	1358.0	1347.9
42.5°	4107.4	2839.0	1369.6	1455.0	1612.6	1713.8	1644.4	1481.0	1345.0	1290.1	1304.6
45°	4266.5	2823.1	1332.0	1457.9	1630.0	1726.8	1628.5	1427.5	1282.9	1261.2	1256.8
47.5°	4322.9	2708.9	1291.5	1433.3	1625.6	1722.5	1575.0	1386.9	1259.7	1262.6	1274.2
50°	4228.9	2591.7	1261.2	1382.6	1596.7	1683.4	1491.1	1333.4	1246.7	1282.9	1303.1
52.5°	4108.8	2471.7	1198.9	1314.7	1537.3	1622.7	1452.1	1330.6	1233.7	1222.1	1226.4
55°	4145.0	2373.4	1112.2	1222.1	1441.9	1509.9	1408.7	1303.1	1201.8	1158.4	1172.9
56°	4027.8	2272.1	1055.8	1164.2	1376.8	1437.6	1386.9	1278.5	1175.8	1146.9	1146.9
57.5°	3696.6	1932.2	982.0	1071.7	1239.4	1311.8	1345.0	1264.0	1146.9	1096.3	1097.7
60°	2726.2	1373.9	880.8	944.4	1026.8	1084.7	1239.4	1223.5	1074.6	1039.8	1026.8
62.5°	1680.6	1003.7	808.4	833.0	875.0	922.7	1081.8	1107.9	997.9	960.3	951.7
65°	941.5	768.0	753.5	763.7	783.9	808.4	898.1	956.0	880.8	822.9	820.0
67.5°	688.4	687.0	698.5	707.2	715.9	715.9	737.6	760.8	750.6	704.3	700.0
70°	611.8	616.1	624.8	626.2	629.1	619.0	601.7	594.4	606.0	577.1	571.3
72.5°	504.7	519.2	529.3	530.8	514.9	501.8	478.7	454.1	445.4	439.7	438.2
75°	387.6	397.7	402.1	400.6	394.9	376.0	348.5	323.9	308.0	290.7	299.3
77.5°	261.8	276.2	283.4	283.4	274.8	245.9	232.9	214.1	198.1	179.3	182.2
80°	183.7	193.8	205.4	203.9	189.5	175.0	156.2	138.8	125.8	111.3	109.9
82.5°	137.4	143.2	148.9	146.1	135.9	121.5	108.4	92.6	78.1	68.0	68.0
85°	49.2	53.5	65.1	68.0	73.8	73.8	62.2	52.1	42.0	34.7	34.7
87.5°	14.5	14.5	15.9	15.9	14.5	15.9	13.0	14.5	15.9	10.1	10.1
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)