

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: P647300

Luminaire Tested: **GALN-SA2D-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647300
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-SA2D-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1200mA 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: 10633.2 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

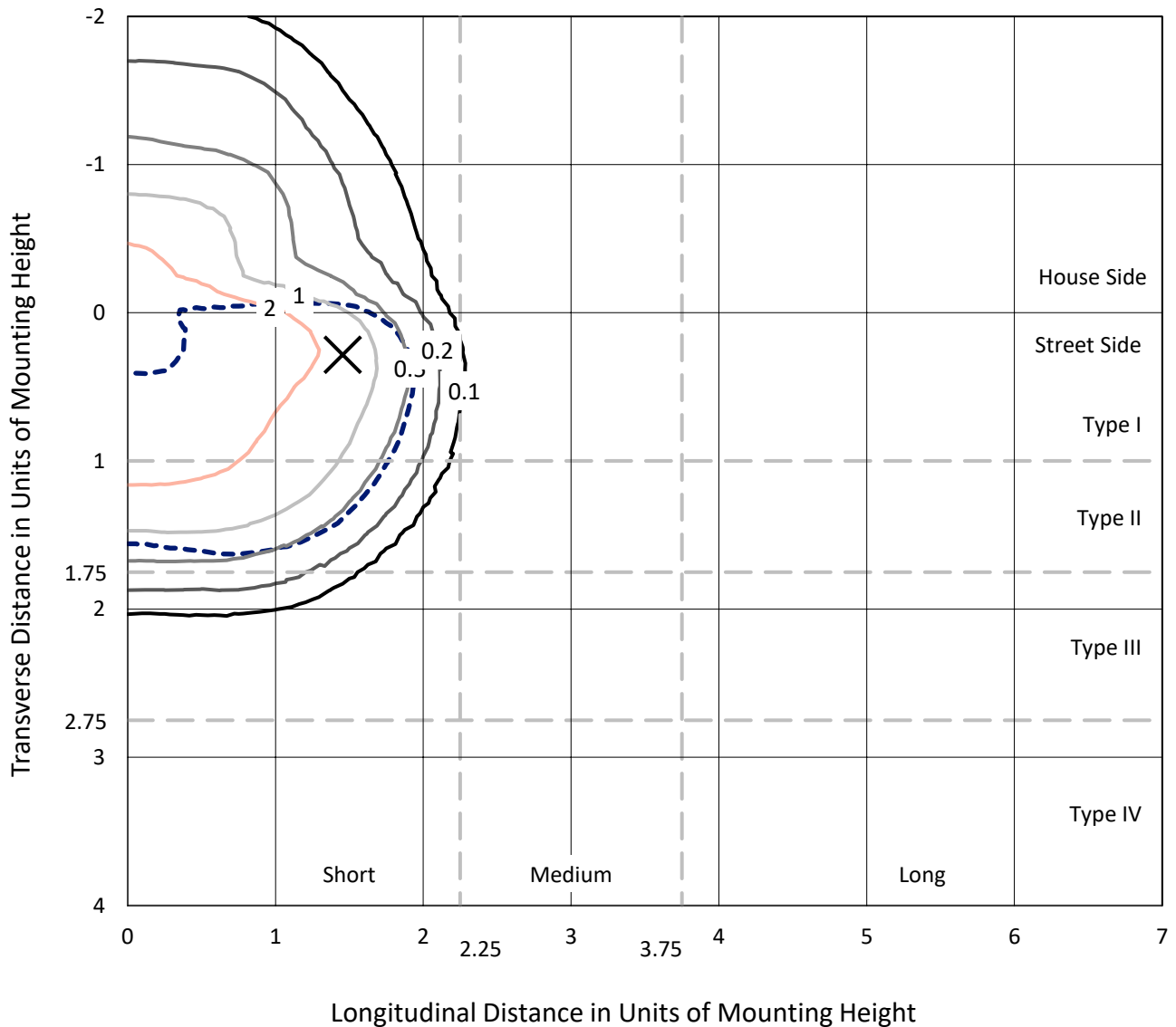
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

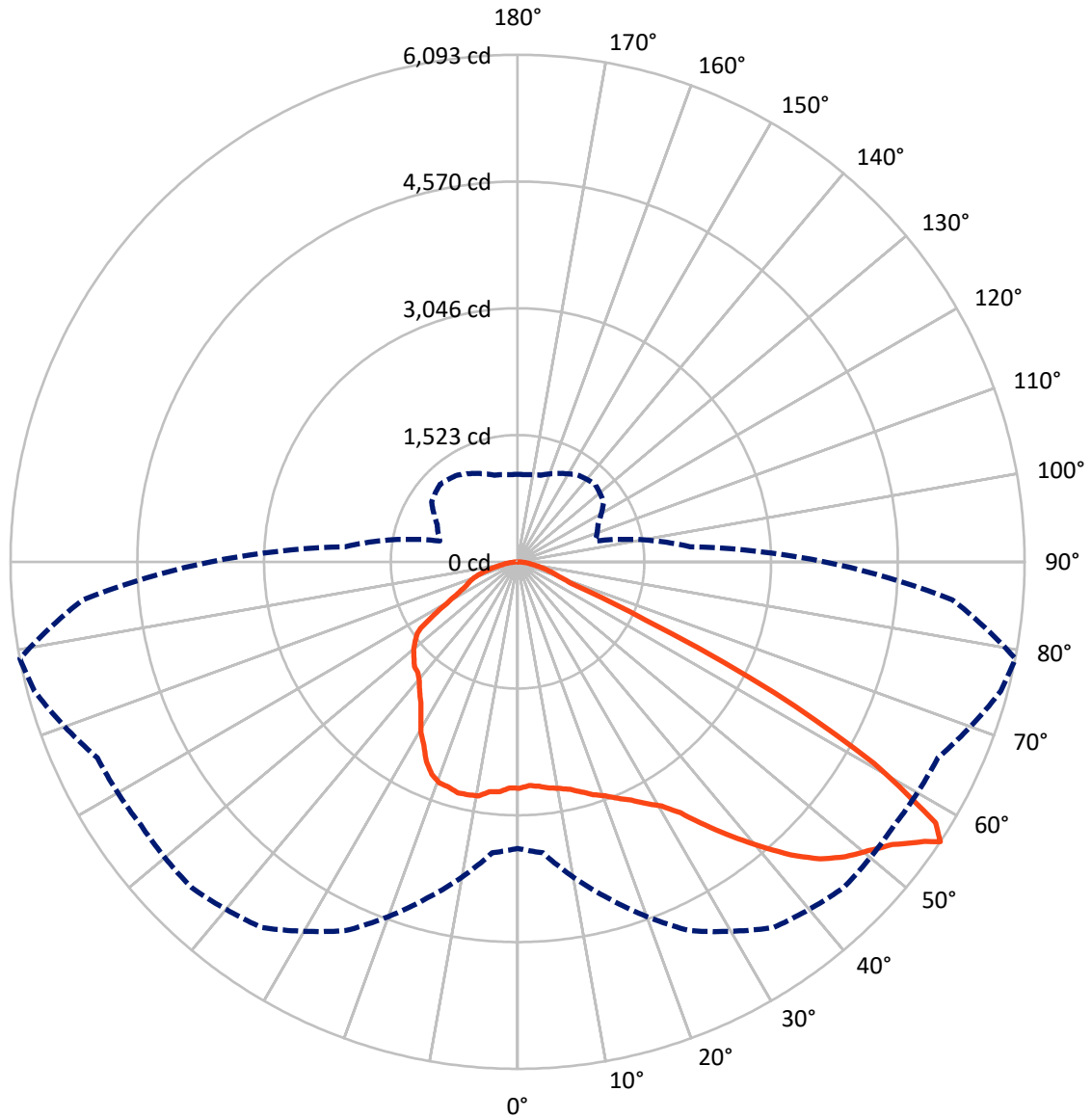
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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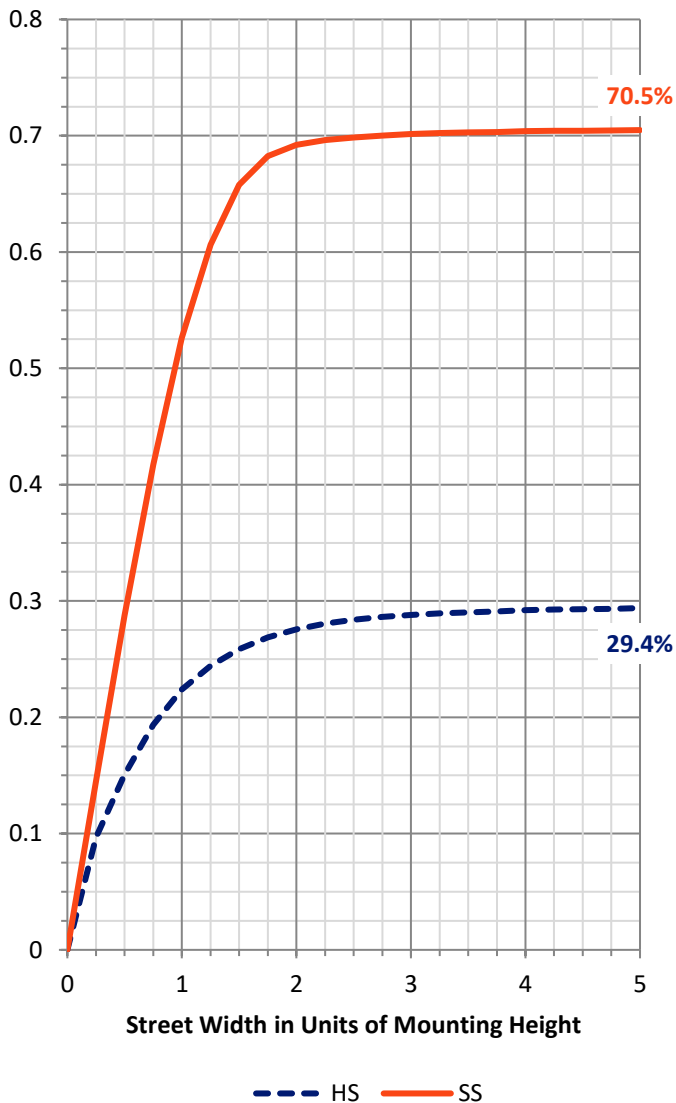
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3140.2	0.0	3140.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7492.9	0.0	7492.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	10633.2	0.0	10633.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	2.3
10°-20°	676.9	6.4
20°-30°	1158.1	10.9
30°-40°	1775.0	16.7
40°-50°	2398.8	22.6
50°-60°	2755.2	25.9
60°-70°	1255.9	11.8
70°-80°	309.6	2.9
80°-90°	56.3	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°	10633.2	100.0
0°-180°	10633.2	100.0



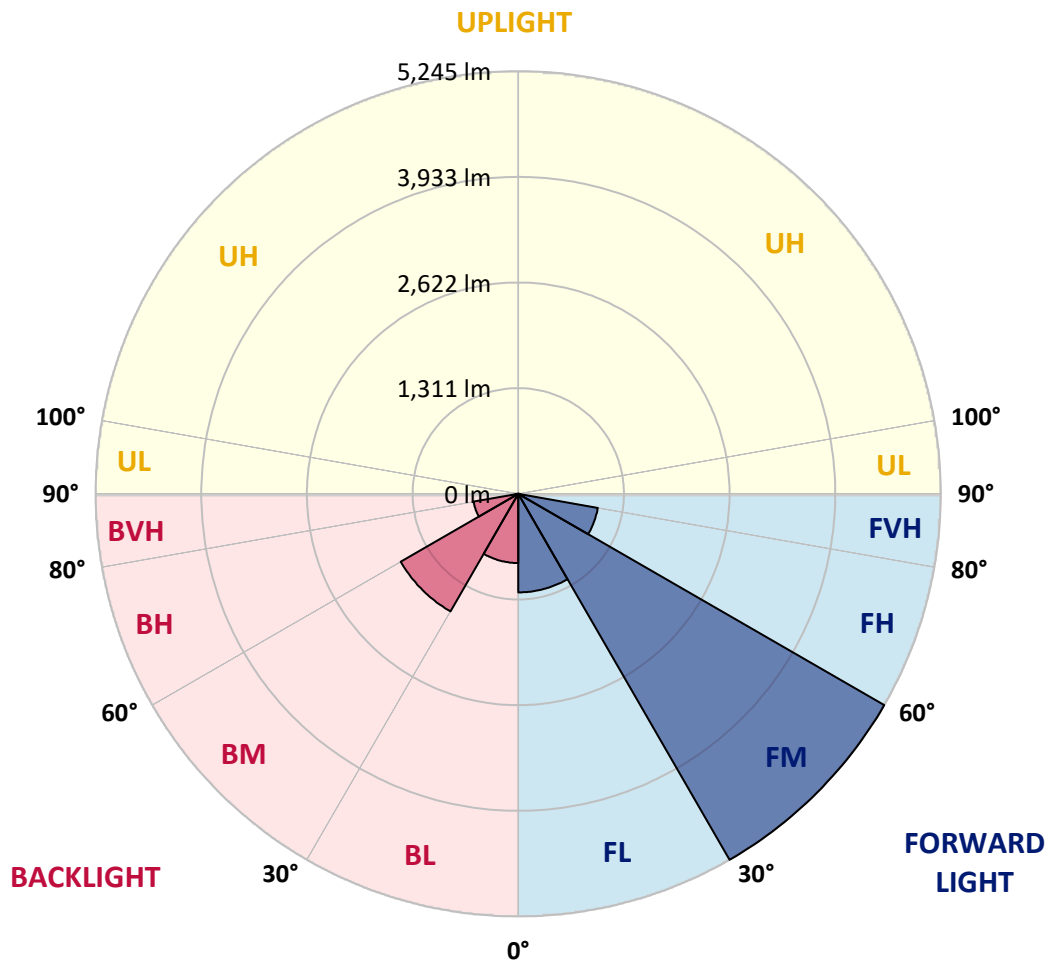
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 CATALOG NUMBER: GALN-SA2D-835-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.4	11.5			
FM (30°-60°)	5244.6	49.3			
FH (60°-80°)	1002.5	9.4			G1/1800
FVH (80°-90°)	22.5	0.2			G1/100
BL (0°-30°)	859.0	8.1	B2/1000		
BM (30°-60°)	1684.4	15.8	B2/2500		
BH (60°-80°)	563.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	33.8	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°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2588.1	2581.6	2597.4	2609.3	2623.9	2642.5	2651.7	2657.0	2703.4	2691.5	2727.2
5°	2532.5	2515.3	2527.2	2536.5	2561.7	2584.1	2609.3	2649.0	2691.5	2710.0	2753.7
7.5°	2483.5	2474.2	2471.6	2478.2	2512.6	2541.8	2585.5	2643.8	2712.6	2743.1	2768.3
10°	2402.7	2389.5	2409.4	2453.1	2462.3	2523.2	2573.6	2657.0	2716.6	2769.6	2843.8
12.5°	2366.9	2353.7	2357.7	2382.8	2447.7	2506.0	2565.7	2659.7	2785.5	2806.7	2906.0
15°	2423.9	2410.6	2414.6	2408.0	2470.3	2500.7	2594.8	2712.6	2833.2	2868.9	2974.9
17.5°	2553.7	2555.0	2537.8	2523.2	2508.7	2573.6	2638.5	2744.4	2851.8	2941.8	3021.3
20°	2801.4	2757.6	2723.3	2641.1	2618.6	2646.5	2728.5	2830.5	2927.2	3001.4	3091.4
22.5°	2992.2	2996.1	2947.1	2812.0	2763.0	2774.9	2845.1	2928.6	3034.5	3087.5	3190.8
25°	3268.9	3241.2	3188.1	3080.9	2970.9	2980.2	3031.9	3107.3	3136.5	3173.6	3286.2
27.5°	3521.9	3529.9	3425.2	3324.6	3188.1	3161.7	3254.4	3267.6	3218.6	3288.8	3327.2
30°	3778.9	3772.3	3703.4	3585.5	3451.8	3457.0	3498.1	3433.2	3365.6	3404.1	3430.6
32.5°	4045.1	3969.7	3967.0	3861.1	3759.0	3710.0	3659.7	3691.5	3586.8	3594.8	3569.6
35°	4258.4	4269.0	4208.1	4132.5	4082.2	3996.1	3858.4	3915.3	3895.4	3886.2	3777.6
37.5°	4413.4	4372.3	4402.7	4377.6	4329.9	4222.6	4079.6	4133.8	4143.2	4188.2	4062.4
40°	4540.5	4523.3	4604.1	4617.4	4584.2	4352.5	4095.5	4257.1	4396.2	4494.2	4344.5
42.5°	4601.5	4638.5	4723.3	4825.3	4751.1	4503.4	4177.6	4351.1	4661.0	4816.0	4612.0
45°	4683.6	4635.9	4761.7	4948.5	4949.8	4630.6	4257.1	4478.3	4867.7	5092.9	4794.9
47.5°	4600.1	4623.9	4753.7	4990.8	5051.8	4764.4	4471.6	4658.4	5095.5	5295.5	4964.4
50°	4413.4	4461.1	4698.2	4944.5	5128.6	4906.1	4718.0	4853.1	5306.1	5458.4	4992.2
52.5°	4218.6	4245.1	4616.0	4980.3	5163.0	5088.9	5047.8	5122.0	5563.1	5642.5	5026.6
55°	3688.9	3814.7	4344.5	4964.4	5331.3	5418.7	5386.9	5495.5	5854.5	5934.0	5214.7
56°	3443.8	3510.0	4181.5	4890.2	5364.4	5539.2	5523.3	5572.3	6009.4	6092.8	5243.8
57.5°	2990.8	2996.1	3565.6	4561.7	5239.8	5575.0	5559.1	5597.5	5979.0	5922.0	4988.2
60°	1871.6	1953.7	2426.5	3508.7	4455.7	5172.3	5262.4	4953.8	5041.2	4920.7	3880.9
62.5°	969.6	957.6	1271.6	2051.7	2957.7	3703.4	3786.8	3772.3	3637.2	3461.0	2535.2
65°	483.4	486.1	664.9	1015.9	1515.3	1939.1	2172.3	2197.4	1838.5	1691.4	1202.7
67.5°	351.0	364.3	478.2	621.2	713.9	798.7	978.8	960.3	727.2	691.4	641.0
70°	272.9	284.8	388.1	474.2	430.5	430.5	468.9	484.8	517.9	532.4	549.7
72.5°	198.6	208.0	296.7	327.1	282.1	303.3	351.0	388.1	422.5	427.8	447.7
75°	136.4	144.4	194.7	180.2	169.5	209.3	257.0	291.4	316.6	329.8	341.7
77.5°	88.7	91.4	111.3	94.0	108.6	135.1	166.9	196.1	221.2	231.8	234.4
80°	39.7	43.7	47.7	59.6	75.5	96.7	119.2	143.1	158.9	162.9	170.9
82.5°	22.6	22.6	29.1	42.4	55.6	70.2	86.1	103.3	121.8	125.8	124.5
85°	11.9	11.9	17.2	25.1	34.5	41.0	39.7	41.0	43.7	50.3	49.0
87.5°	4.0	4.0	5.3	5.3	6.7	7.9	6.7	9.2	11.9	11.9	11.9
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°	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6	2720.6
2.5°	2716.6	2728.5	2712.6	2747.1	2747.1	2740.5	2707.4	2717.9	2725.9	2725.9	2732.5
5°	2768.3	2764.3	2774.9	2733.8	2708.7	2699.4	2645.1	2618.6	2596.1	2594.8	2574.9
7.5°	2797.4	2786.9	2782.9	2752.4	2641.1	2573.6	2457.1	2389.5	2374.9	2323.2	2343.1
10°	2843.8	2863.7	2843.8	2678.3	2523.2	2368.3	2254.3	2149.7	2108.7	2075.6	2055.7
12.5°	2939.1	2929.9	2814.7	2590.8	2373.6	2189.4	2019.9	1910.0	1868.9	1839.8	1837.2
15°	3020.0	2973.6	2797.4	2453.1	2140.5	1944.4	1805.4	1727.2	1708.7	1711.3	1723.2
17.5°	3047.7	3016.0	2707.4	2310.0	1967.0	1736.5	1671.5	1659.6	1676.9	1696.8	1702.0
20°	3091.4	3041.2	2670.3	2115.3	1752.4	1606.6	1602.7	1645.1	1676.9	1706.0	1710.0
22.5°	3182.9	3055.7	2549.8	1931.2	1605.3	1568.3	1606.6	1642.4	1691.4	1715.2	1694.1
25°	3209.4	3023.9	2380.2	1710.0	1512.6	1544.4	1585.5	1634.5	1668.9	1682.2	1691.4
27.5°	3231.8	2974.9	2151.1	1562.9	1483.5	1543.1	1585.5	1626.5	1645.1	1657.0	1667.6
30°	3295.4	2960.4	1952.3	1464.9	1464.9	1516.6	1570.9	1581.5	1606.6	1621.2	1639.8
32.5°	3327.2	2859.7	1748.4	1402.7	1446.4	1529.8	1533.8	1553.7	1555.0	1566.9	1547.1
35°	3410.7	2788.2	1559.0	1357.6	1454.3	1516.6	1536.5	1524.6	1459.7	1427.9	1434.5
37.5°	3471.6	2752.4	1422.6	1352.3	1455.7	1531.2	1541.7	1451.7	1384.1	1331.2	1344.4
40°	3635.9	2663.6	1319.3	1343.1	1467.6	1547.1	1517.9	1419.9	1298.1	1243.7	1234.5
42.5°	3761.7	2600.0	1254.4	1332.5	1476.9	1569.6	1506.0	1356.3	1231.8	1181.5	1194.7
45°	3907.4	2585.5	1219.9	1335.2	1492.8	1581.5	1491.5	1307.3	1174.9	1155.0	1151.0
47.5°	3959.0	2480.9	1182.8	1312.6	1488.8	1577.5	1442.4	1270.3	1153.7	1156.3	1166.9
50°	3873.0	2373.6	1155.0	1266.3	1462.3	1541.7	1365.6	1221.2	1141.8	1174.9	1193.4
52.5°	3763.0	2263.7	1098.1	1204.0	1408.0	1486.1	1329.8	1218.6	1129.9	1119.2	1123.2
55°	3796.1	2173.5	1018.6	1119.2	1320.5	1382.8	1290.1	1193.4	1100.7	1061.0	1074.2
56°	3688.9	2080.8	966.9	1066.3	1260.9	1316.6	1270.3	1170.9	1076.9	1050.4	1050.4
57.5°	3385.5	1769.6	899.4	981.5	1135.1	1201.4	1231.8	1157.7	1050.4	1004.0	1005.3
60°	2496.8	1258.3	806.6	864.9	940.4	993.4	1135.1	1120.6	984.2	952.4	940.4
62.5°	1539.1	919.2	740.4	763.0	801.3	845.1	990.7	1014.6	913.9	879.5	871.6
65°	862.2	703.3	690.1	699.4	717.9	740.4	822.5	875.6	806.6	753.6	751.0
67.5°	630.5	629.1	639.8	647.7	655.7	655.7	675.5	696.7	687.4	645.0	641.0
70°	560.3	564.2	572.2	573.5	576.2	566.9	551.0	544.4	555.0	528.5	523.2
72.5°	462.3	475.5	484.8	486.1	471.5	459.6	438.4	415.9	407.9	402.7	401.4
75°	355.0	364.3	368.2	366.9	361.6	344.4	319.2	296.7	282.1	266.2	274.2
77.5°	239.8	253.0	259.6	259.6	251.7	225.2	213.3	196.1	181.5	164.3	166.9
80°	168.2	177.5	188.1	186.7	173.5	160.3	143.1	127.2	115.3	102.0	100.7
82.5°	125.8	131.2	136.4	133.8	124.5	111.3	99.4	84.8	71.5	62.2	62.2
85°	45.0	49.0	59.6	62.2	67.6	67.6	56.9	47.7	38.4	31.8	31.8
87.5°	13.2	13.2	14.6	14.6	13.2	14.6	11.9	13.2	14.6	9.2	9.2
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)