

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: P527724

Luminaire Tested: **GALN-SA2D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527724
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-SA2D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 12080 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

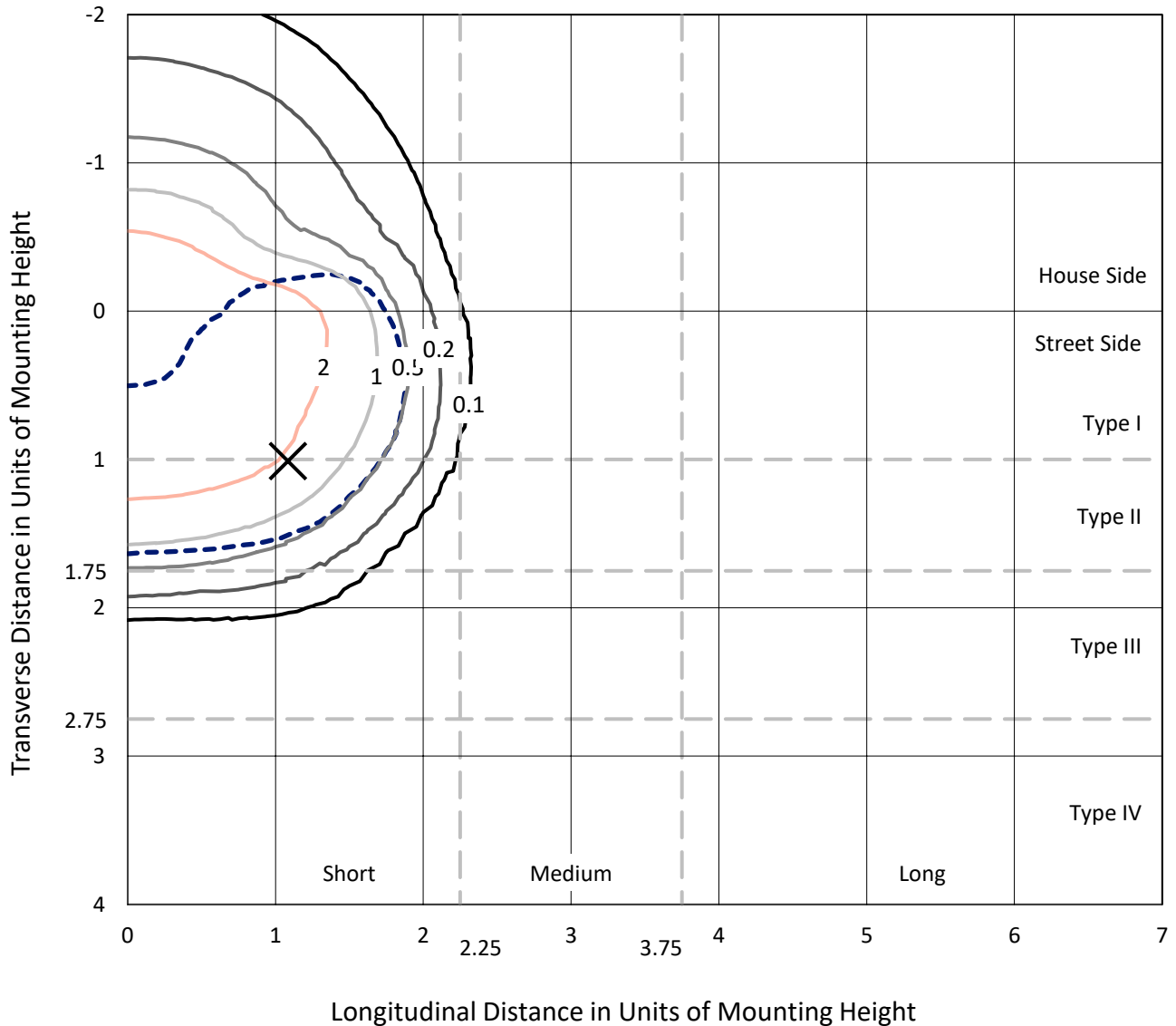
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

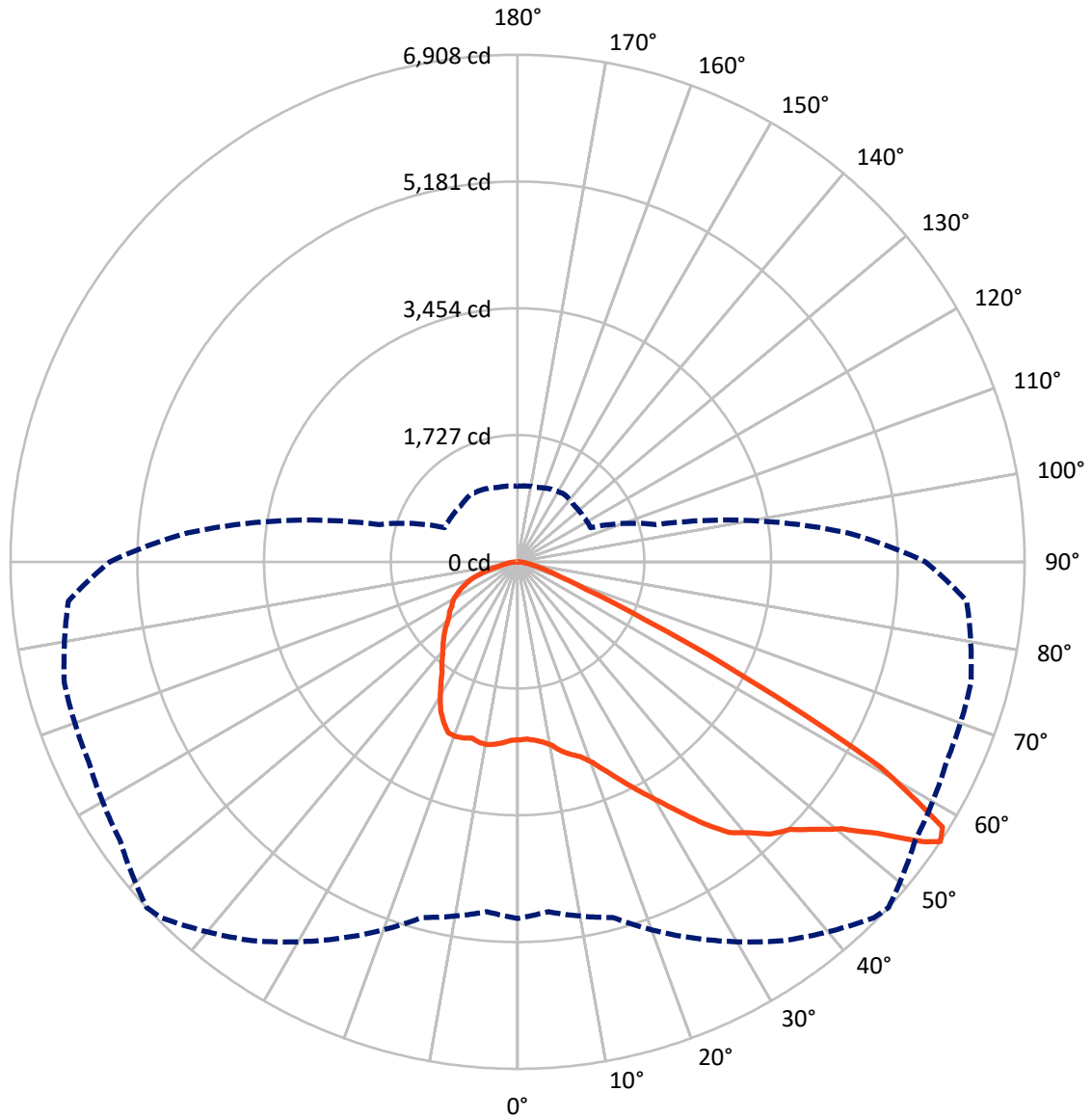
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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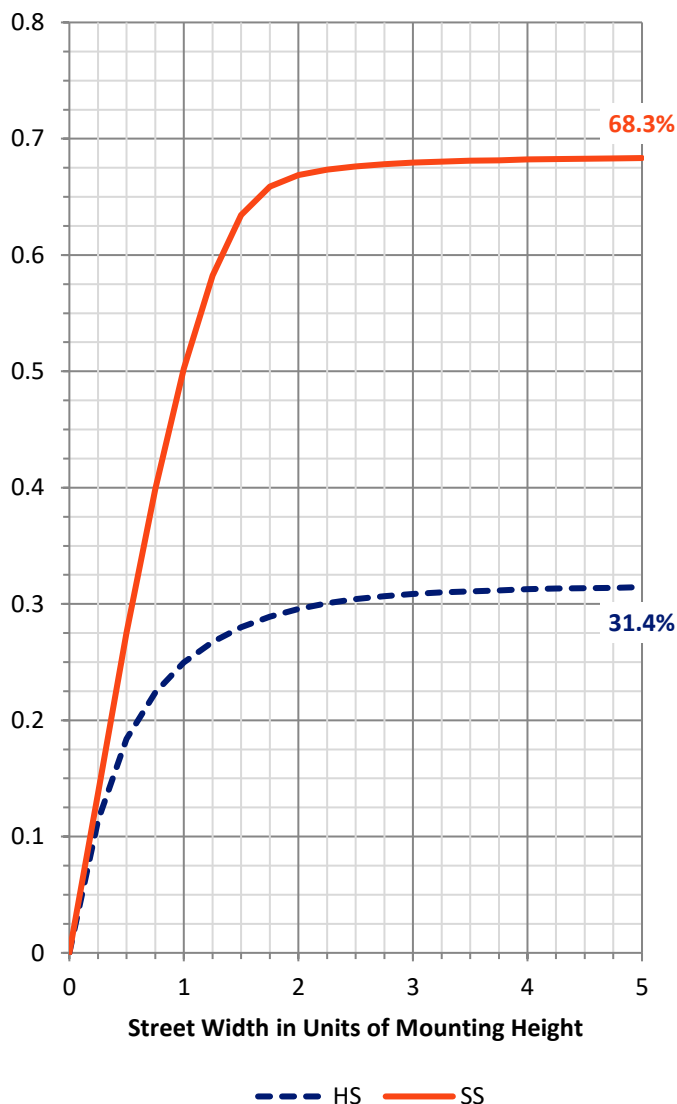
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3828.0	0.0	3828.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	8252.0	0.0	8252.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	12080.0	0.0	12080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	2.0
10°-20°	745.8	6.2
20°-30°	1318.4	10.9
30°-40°	1980.2	16.4
40°-50°	2717.7	22.5
50°-60°	3237.7	26.8
60°-70°	1385.6	11.5
70°-80°	392.1	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°	12080.0	100.0
0°-180°	12080.0	100.0

Coefficient of Utilization

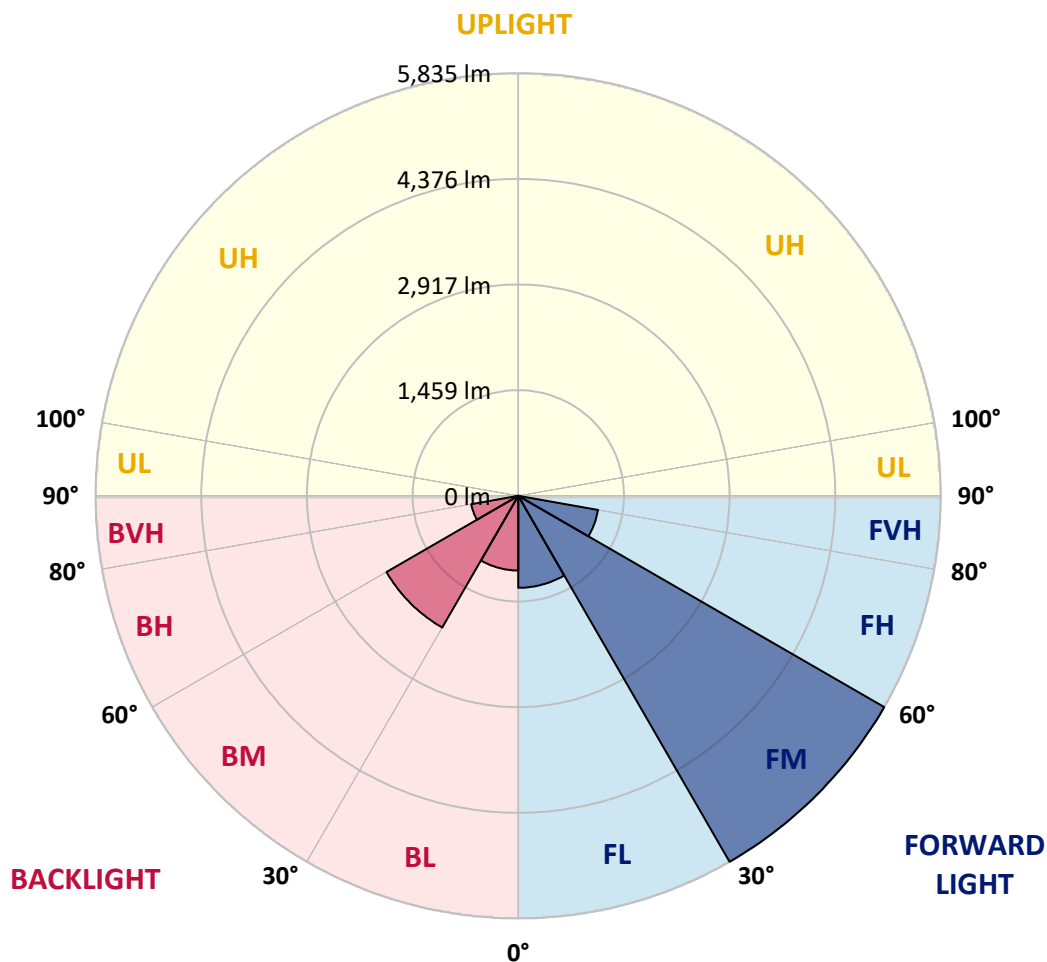


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.0	10.5			
FM (30°-60°)	5834.9	48.3			
FH (60°-80°)	1119.0	9.3			G1/1800
FVH (80°-90°)	28.0	0.2			G1/100
BL (0°-30°)	1030.7	8.5	B3/2500		
BM (30°-60°)	2100.7	17.4	B2/2500		
BH (60°-80°)	658.6	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°	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5
2.5°	2417.3	2412.6	2409.6	2434.2	2425.0	2426.5	2417.3	2426.5	2432.7	2418.8	2438.8
5°	2412.6	2426.5	2414.2	2421.9	2441.9	2435.7	2441.9	2460.4	2455.8	2451.2	2445.0
7.5°	2455.8	2457.3	2466.6	2469.6	2475.8	2469.6	2478.9	2495.8	2491.2	2465.0	2468.1
10°	2517.4	2520.5	2522.0	2539.0	2549.8	2551.3	2540.5	2525.1	2523.6	2559.0	2534.3
12.5°	2588.3	2580.6	2599.1	2605.2	2617.5	2631.4	2645.3	2612.9	2633.0	2634.5	2605.2
15°	2691.5	2699.2	2677.6	2677.6	2682.3	2683.8	2722.3	2706.9	2703.8	2686.9	2699.2
17.5°	2845.6	2793.2	2791.6	2770.1	2767.0	2779.3	2793.2	2805.5	2847.1	2813.2	2747.0
20°	2958.0	2970.4	2925.7	2899.5	2904.1	2931.8	2918.0	2973.4	3002.7	2947.2	2882.5
22.5°	3156.8	3115.2	3126.0	3067.4	3072.0	3101.3	3099.8	3156.8	3173.7	3085.9	2991.9
25°	3290.8	3280.0	3289.3	3243.0	3249.2	3272.3	3309.3	3403.3	3375.5	3278.5	3061.2
27.5°	3486.5	3464.9	3457.2	3440.2	3434.1	3495.7	3538.8	3639.0	3619.0	3477.2	3184.5
30°	3686.7	3672.9	3680.6	3611.3	3635.9	3766.9	3779.2	3916.3	3907.1	3657.5	3321.6
32.5°	3825.4	3833.1	3847.0	3808.5	3917.8	4022.6	4064.2	4219.8	4227.5	3967.1	3586.6
35°	4048.8	4022.6	4030.3	4075.0	4125.8	4316.9	4384.7	4487.9	4552.6	4292.2	3840.8
37.5°	4189.0	4216.7	4184.4	4255.2	4387.7	4617.3	4678.9	4785.2	4853.0	4612.7	4187.5
40°	4407.8	4363.1	4386.2	4437.0	4572.6	4871.5	4854.6	4963.9	4985.5	4885.4	4511.0
42.5°	4643.5	4621.9	4589.6	4705.1	4819.1	5036.3	5070.2	5019.4	5128.8	5151.9	4973.2
45°	4925.4	4951.6	4956.2	4959.3	5059.5	5249.0	5202.7	5158.1	5284.4	5452.3	5259.7
47.5°	5187.3	5104.1	5164.2	5247.4	5389.2	5390.7	5444.6	5338.3	5472.3	5621.8	5518.6
50°	5275.1	5235.1	5315.2	5472.3	5691.1	5714.2	5720.4	5569.4	5638.7	5757.4	5607.9
52.5°	5241.3	5227.4	5432.3	5675.7	5996.2	6113.3	6144.1	5957.6	5996.2	5942.2	5805.1
55°	5079.5	5121.1	5327.5	5823.6	6315.1	6677.1	6735.7	6500.0	6255.0	6296.6	6145.6
56°	4857.6	4785.2	5016.3	5655.7	6301.2	6860.5	6908.2	6614.0	6447.6	6393.6	6142.5
57.5°	4121.2	4027.2	4330.7	5088.7	5951.5	6791.1	6826.6	6661.7	6415.2	6305.8	5694.2
60°	2412.6	2458.9	2844.0	3509.6	4591.1	5567.9	5686.5	5806.7	5641.8	5151.9	4238.3
62.5°	1164.7	1135.5	1411.2	2012.1	2797.8	3554.3	3518.8	3856.2	4041.1	3660.6	2676.1
65°	610.1	607.0	770.3	1098.5	1537.6	1867.3	1899.6	2081.4	2335.6	1885.7	1358.8
67.5°	448.3	460.7	542.3	771.9	989.1	1009.1	1004.5	1095.4	1120.0	947.5	835.0
70°	351.3	357.4	417.5	587.0	736.4	659.4	645.5	656.3	728.7	759.5	722.6
72.5°	254.2	260.4	311.2	395.9	460.7	449.9	459.1	519.2	608.6	640.9	602.4
75°	169.5	174.1	201.8	241.9	272.7	294.3	311.2	380.5	463.7	482.2	463.7
77.5°	117.1	121.7	140.2	171.0	174.1	188.0	194.1	226.5	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	32.4	40.1	53.9	70.9	87.8	90.9	107.8	124.8	140.2	144.8
85°	15.4	16.9	23.1	32.4	43.1	52.4	50.8	52.4	55.5	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°	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5	2426.5
2.5°	2440.4	2445.0	2414.2	2443.5	2432.7	2431.1	2452.7	2449.6	2457.3	2454.2	2435.7
5°	2441.9	2431.1	2463.5	2434.2	2448.1	2477.3	2457.3	2503.5	2480.4	2495.8	2461.9
7.5°	2489.7	2492.8	2486.6	2498.9	2492.8	2506.6	2495.8	2506.6	2488.1	2489.7	2520.5
10°	2531.3	2522.0	2532.8	2517.4	2528.2	2523.6	2498.9	2491.2	2497.4	2489.7	2509.7
12.5°	2608.3	2591.4	2583.7	2565.2	2552.8	2506.6	2468.1	2446.5	2475.8	2480.4	2471.2
15°	2686.9	2688.4	2653.0	2611.4	2534.3	2465.0	2474.3	2482.0	2482.0	2494.3	2471.2
17.5°	2736.2	2736.2	2703.8	2620.6	2542.1	2502.0	2492.8	2468.1	2446.5	2443.5	2441.9
20°	2822.4	2796.3	2722.3	2619.1	2539.0	2520.5	2451.2	2392.6	2347.9	2332.5	2331.0
22.5°	2921.0	2854.8	2751.6	2622.2	2534.3	2508.2	2378.7	2290.9	2210.8	2176.9	2181.5
25°	3011.9	2905.6	2768.5	2608.3	2517.4	2391.1	2246.3	2124.5	2041.3	2013.6	1999.7
27.5°	3075.1	2959.6	2768.5	2620.6	2454.2	2260.1	2112.2	1956.6	1884.2	1865.7	1868.8
30°	3159.8	3027.4	2816.3	2594.4	2327.9	2090.6	1913.5	1811.8	1768.7	1753.2	1764.0
32.5°	3358.6	3204.5	2882.5	2531.3	2178.5	1921.2	1777.9	1720.9	1657.7	1626.9	1616.1
35°	3574.3	3372.5	2947.2	2425.0	2010.5	1767.1	1677.8	1625.4	1549.9	1516.0	1522.2
37.5°	3879.3	3588.1	2951.9	2249.3	1828.7	1680.8	1599.2	1517.5	1455.9	1403.5	1388.1
40°	4290.7	3882.4	2941.1	2064.5	1682.4	1579.2	1519.1	1417.4	1348.1	1311.1	1318.8
42.5°	4652.7	4227.5	2896.4	1854.9	1549.9	1509.8	1442.0	1341.9	1274.1	1235.6	1232.5
45°	4957.8	4481.7	2811.7	1676.2	1439.0	1432.8	1354.2	1277.2	1223.3	1187.8	1203.2
47.5°	5239.7	4686.6	2683.8	1497.5	1337.3	1349.6	1274.1	1226.3	1192.5	1160.1	1158.6
50°	5341.4	4683.5	2571.3	1349.6	1255.6	1249.5	1246.4	1195.5	1160.1	1132.4	1144.7
52.5°	5510.9	4735.9	2449.6	1247.9	1181.7	1183.2	1194.0	1157.0	1117.0	1100.0	1115.4
55°	5754.3	4743.6	2181.5	1129.3	1120.0	1130.8	1130.8	1106.2	1072.3	1058.4	1050.7
56°	5555.5	4514.1	1956.6	1098.5	1089.2	1089.2	1118.5	1090.8	1049.2	1038.4	1029.1
57.5°	5124.2	3954.8	1637.7	1061.5	1047.6	1069.2	1084.6	1055.3	1016.8	1001.4	1010.7
60°	3534.2	2676.1	1231.0	981.4	981.4	1016.8	1029.1	986.0	969.1	967.5	955.2
62.5°	2062.9	1559.1	962.9	909.0	912.1	941.3	950.6	925.9	904.4	930.5	942.9
65°	1093.9	930.5	825.8	831.9	833.5	856.6	896.7	895.1	893.6	901.3	902.8
67.5°	791.9	773.4	750.3	744.1	747.2	764.2	804.2	835.0	833.5	815.0	801.1
70°	705.6	679.4	665.6	667.1	654.8	674.8	707.2	727.2	691.7	670.2	660.9
72.5°	587.0	579.3	570.0	571.6	546.9	542.3	505.3	505.3	496.1	489.9	500.7
75°	448.3	445.2	449.9	442.2	416.0	388.2	366.7	346.6	315.8	303.5	297.3
77.5°	283.5	292.7	303.5	286.6	275.8	255.7	234.2	214.1	189.5	175.6	175.6
80°	192.6	200.3	208.0	204.9	192.6	174.1	157.1	135.6	118.6	107.8	106.3
82.5°	146.4	152.5	163.3	151.0	138.7	123.3	109.4	94.0	78.6	66.2	66.2
85°	52.4	60.1	66.2	72.4	77.0	78.6	67.8	55.5	44.7	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)