

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: P529129

Luminaire Tested: **GALN-SA4B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12467 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

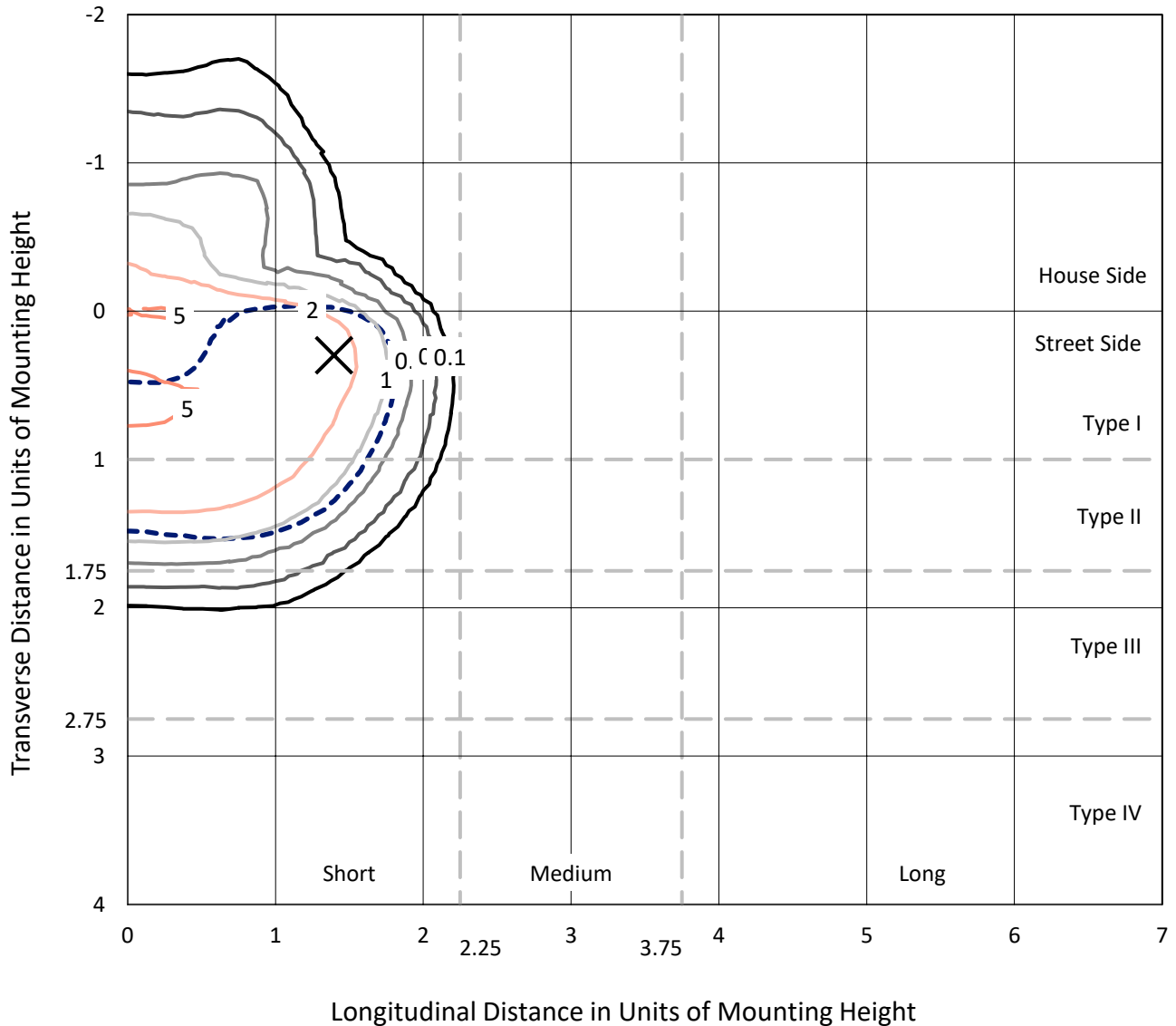
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

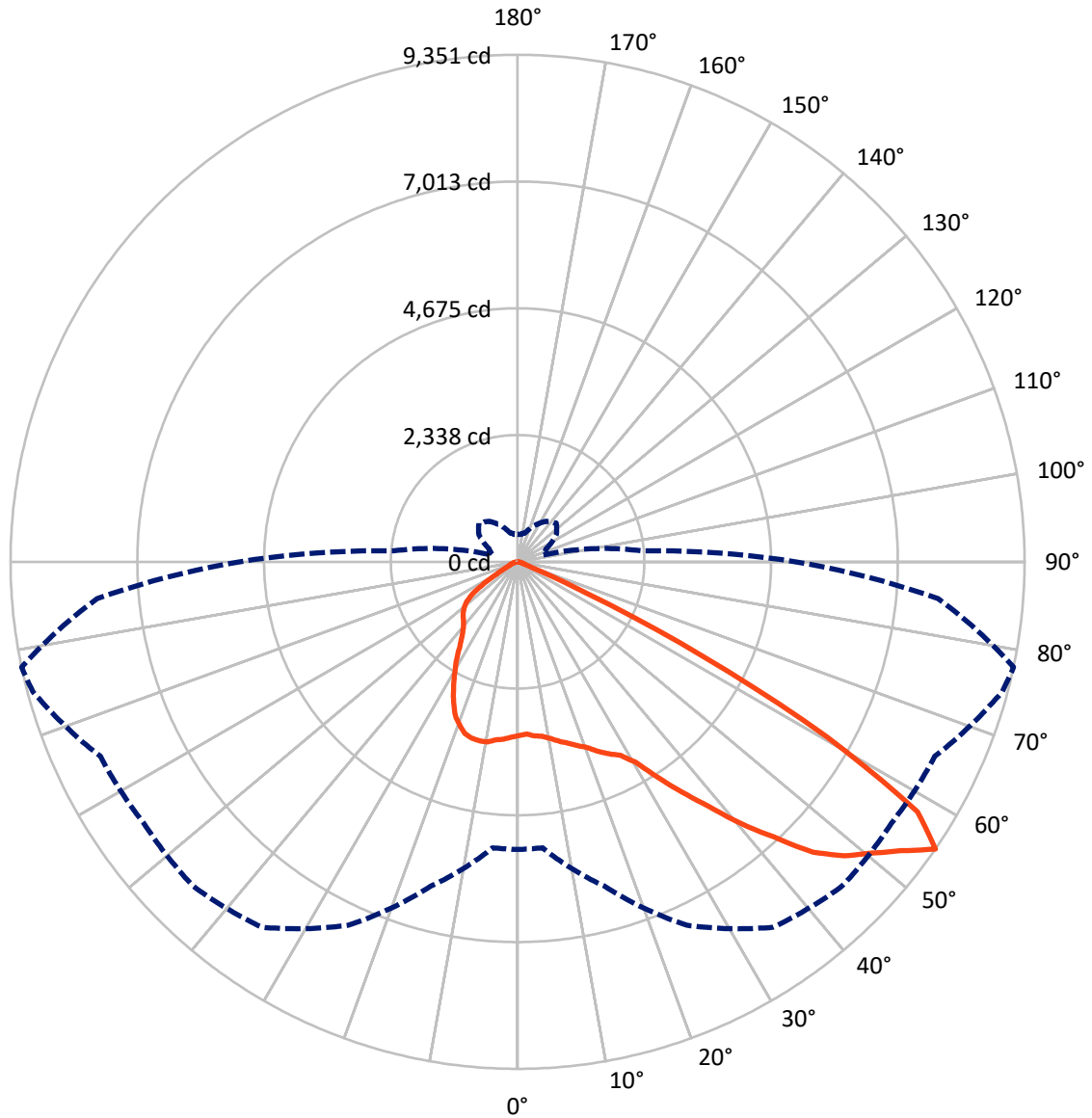
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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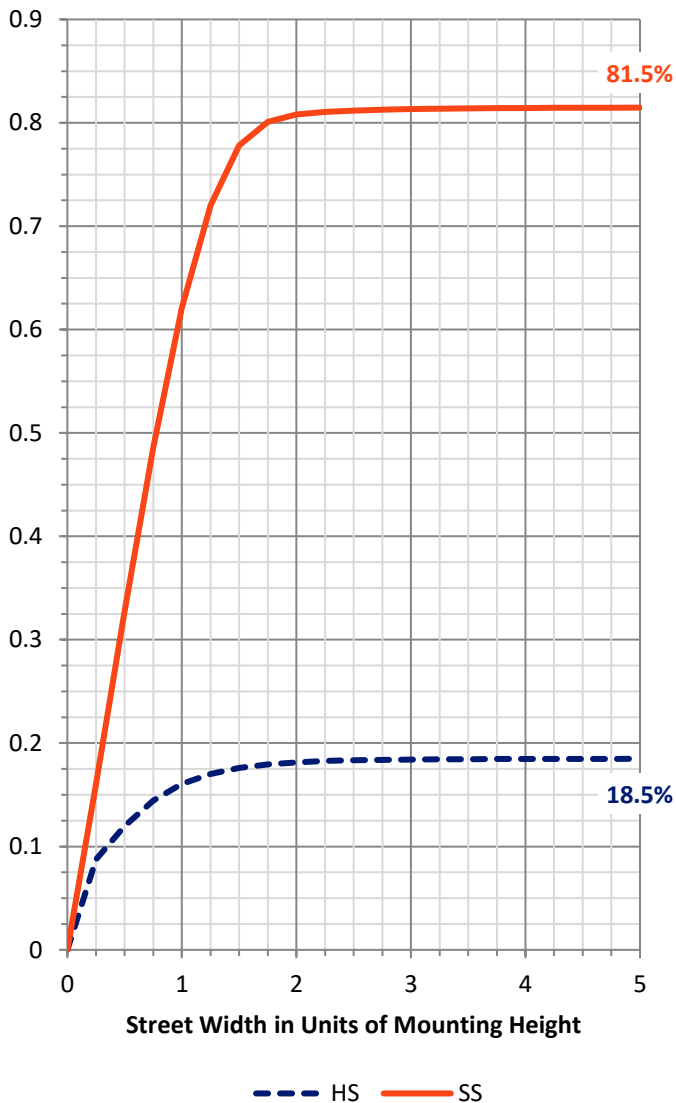
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2315.6	0.0	2315.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10151.4	0.0	10151.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	12467.0	0.0	12467.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.8	2.3
10°-20°	756.4	6.1
20°-30°	1325.8	10.6
30°-40°	2186.1	17.5
40°-50°	3181.1	25.5
50°-60°	3604.5	28.9
60°-70°	1030.6	8.3
70°-80°	80.0	0.6
80°-90°	16.7	0.1
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°	12467.0	100.0
0°-180°	12467.0	100.0



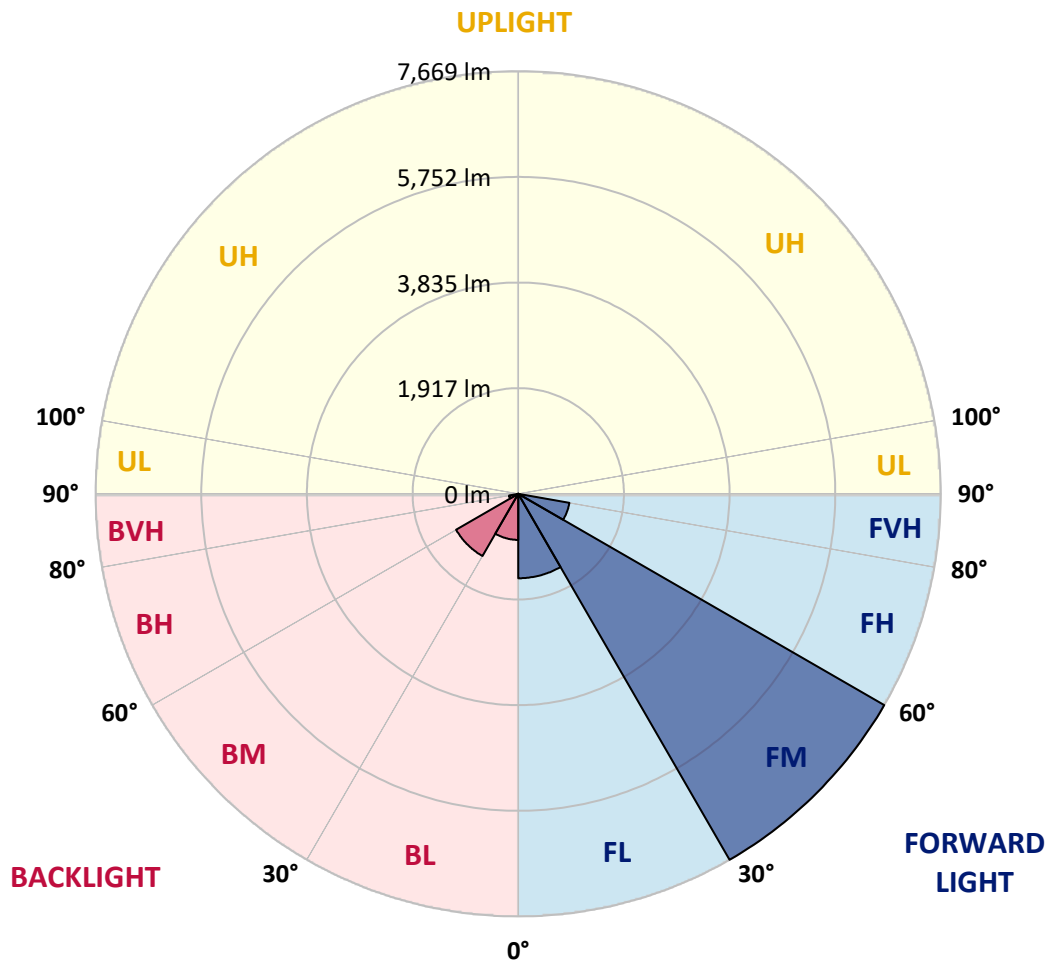
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.6	12.3			
FM (30°-60°)	7669.1	61.5			
FH (60°-80°)	941.6	7.6			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	835.5	6.7	B2/1000		
BM (30°-60°)	1302.6	10.4	B2/2500		
BH (60°-80°)	169.0	1.4	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3
2.5°	3013.6	3042.6	3047.0	3082.7	3080.5	3140.6	3158.5	3160.7	3200.8	3180.8	3232.0
5°	2928.9	2913.3	2906.6	2969.0	2986.8	3040.3	3084.9	3111.7	3194.1	3223.1	3276.6
7.5°	2853.1	2853.1	2857.6	2913.3	2906.6	2975.7	3022.5	3105.0	3225.3	3249.9	3314.5
10°	2779.5	2752.8	2786.2	2844.2	2893.2	2924.4	3022.5	3100.5	3240.9	3312.3	3401.4
12.5°	2741.6	2755.0	2759.5	2801.8	2855.3	2948.9	3002.4	3131.7	3352.4	3394.7	3490.6
15°	2980.1	2953.4	2888.8	2850.9	2895.4	2940.0	3073.8	3205.3	3410.3	3470.5	3577.5
17.5°	3256.5	3234.2	3180.8	3078.2	2977.9	3060.4	3165.2	3285.5	3472.8	3561.9	3720.2
20°	3617.6	3582.0	3528.5	3327.9	3240.9	3151.8	3263.2	3405.9	3575.3	3655.5	3818.2
22.5°	4047.8	4047.8	3927.5	3684.5	3504.0	3419.3	3466.1	3548.5	3689.0	3798.2	3958.7
25°	4495.9	4482.5	4373.3	4121.4	3816.0	3715.7	3769.2	3827.2	3865.1	3925.2	4032.2
27.5°	5008.5	4930.5	4792.3	4513.7	4244.0	4050.1	4108.0	4056.7	4009.9	4041.1	4194.9
30°	5356.2	5405.3	5229.2	4961.7	4707.6	4491.4	4502.5	4458.0	4244.0	4288.6	4379.9
32.5°	5717.3	5748.5	5650.5	5503.4	5249.2	4997.4	4906.0	4868.1	4707.6	4727.7	4638.5
35°	6018.2	6078.4	5991.5	5926.9	5853.3	5650.5	5398.6	5521.2	5262.6	5213.6	4981.8
37.5°	6294.6	6276.8	6379.3	6312.5	6296.9	6154.2	5877.8	5902.3	5728.5	5717.3	5449.9
40°	6542.1	6546.5	6686.9	6718.1	6655.7	6401.6	6000.4	6194.3	6334.8	6348.1	6004.9
42.5°	6747.1	6807.3	6927.7	7179.5	7085.9	6662.4	6127.5	6339.2	6860.8	6943.3	6530.9
45°	6925.4	7048.0	7197.4	7422.5	7369.0	7032.4	6444.0	6637.9	7422.5	7638.7	7025.7
47.5°	6936.6	7097.1	7259.8	7594.1	7661.0	7230.8	6771.6	7110.4	7868.3	8102.3	7386.8
50°	6892.0	6976.7	7302.1	7665.5	7817.0	7554.0	7230.8	7507.2	8300.7	8447.8	7569.6
52.5°	6363.7	6428.4	7081.5	7732.3	8097.9	7919.6	7839.3	8060.0	8742.1	8851.3	7741.2
55°	5305.0	5293.8	6192.1	7395.8	8227.2	8461.2	8412.2	8490.2	9252.5	9350.6	7783.6
57.5°	3628.8	3831.6	4607.3	6158.7	7435.9	8334.2	8385.4	8256.1	8657.4	8695.3	6785.0
60°	1957.0	2041.7	2665.9	4110.2	5661.6	6791.7	6925.4	6691.4	6660.2	6553.2	4843.6
62.5°	777.9	820.3	1174.7	2035.1	3084.9	4128.1	4415.6	4319.8	4114.7	3833.8	2507.6
65°	370.0	396.8	584.0	951.8	1368.6	1720.8	2008.3	2097.5	1546.9	1393.1	827.0
67.5°	251.9	271.9	425.7	543.9	488.1	510.4	664.2	617.4	363.3	309.8	229.6
70°	191.7	205.1	341.0	370.0	218.4	153.8	171.6	160.5	149.3	151.6	149.3
72.5°	136.0	147.1	249.6	218.4	95.8	71.3	91.4	109.2	109.2	109.2	107.0
75°	82.5	93.6	144.9	84.7	37.9	37.9	58.0	73.6	78.0	80.2	75.8
77.5°	42.4	53.5	49.0	24.5	24.5	29.0	42.4	51.3	55.7	55.7	53.5
80°	8.9	8.9	8.9	13.4	24.5	31.2	42.4	46.8	53.5	53.5	49.0
82.5°	0.0	2.2	6.7	13.4	22.3	29.0	40.1	46.8	53.5	55.7	51.3
85°	0.0	2.2	4.5	8.9	15.6	17.8	15.6	13.4	13.4	13.4	13.4
87.5°	0.0	0.0	2.2	2.2	2.2	4.5	4.5	4.5	4.5	4.5	4.5
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°	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3	3205.3
2.5°	3236.5	3243.2	3232.0	3229.8	3220.9	3247.6	3183.0	3167.4	3207.5	3169.6	3178.5
5°	3278.8	3294.4	3274.4	3240.9	3191.9	3116.1	3051.5	2966.8	2926.7	2897.7	2893.2
7.5°	3310.0	3321.2	3301.1	3194.1	3047.0	2855.3	2712.7	2607.9	2525.4	2500.9	2460.8
10°	3437.1	3439.3	3339.0	3102.7	2815.2	2563.3	2344.9	2184.4	2101.9	2050.7	2028.4
12.5°	3521.8	3517.3	3314.5	2922.2	2538.8	2204.5	1954.8	1760.9	1685.1	1660.6	1645.0
15°	3628.8	3604.3	3256.5	2737.2	2182.2	1821.1	1595.9	1462.2	1455.5	1439.9	1455.5
17.5°	3713.5	3644.4	3171.8	2400.6	1841.1	1500.1	1353.0	1361.9	1379.7	1395.3	1397.6
20°	3851.7	3709.0	2977.9	2106.4	1524.6	1286.1	1283.9	1324.0	1368.6	1386.4	1404.3
22.5°	3956.4	3735.8	2770.6	1792.1	1266.1	1199.2	1237.1	1297.3	1330.7	1348.5	1375.3
25°	3994.3	3662.2	2494.2	1477.8	1141.2	1159.1	1217.0	1257.1	1299.5	1319.6	1308.4
27.5°	4032.2	3624.3	2164.3	1217.0	1074.4	1132.3	1181.4	1221.5	1234.9	1261.6	1279.4
30°	4123.6	3492.8	1867.9	1052.1	1040.9	1114.5	1150.2	1163.5	1199.2	1214.8	1214.8
32.5°	4197.2	3441.5	1553.6	974.1	1036.5	1123.4	1127.9	1127.9	1132.3	1121.2	1116.7
35°	4348.7	3265.5	1272.7	927.3	1034.2	1125.6	1136.8	1098.9	996.4	956.2	945.1
37.5°	4536.0	3151.8	1065.5	916.1	1049.8	1152.4	1170.2	1027.6	893.8	829.2	818.0
40°	4763.3	3071.5	929.5	911.7	1085.5	1214.8	1161.3	971.8	798.0	704.4	699.9
42.5°	5028.6	2998.0	838.1	909.4	1130.1	1279.4	1152.4	925.0	699.9	637.5	646.4
45°	5240.3	2957.9	775.7	893.8	1145.7	1317.3	1159.1	842.6	659.8	619.7	624.1
47.5°	5405.3	2873.2	724.4	867.1	1143.5	1330.7	1098.9	809.1	639.7	650.9	662.0
50°	5409.7	2759.5	659.8	809.1	1110.0	1306.2	1029.8	777.9	635.3	682.1	704.4
52.5°	5349.6	2599.0	590.7	726.6	1032.0	1221.5	967.4	764.5	615.2	610.7	637.5
55°	5135.6	2298.1	474.8	588.5	871.5	1007.5	911.7	740.0	555.0	503.7	508.2
57.5°	4150.4	1647.2	349.9	421.3	617.4	737.8	822.5	728.9	499.3	428.0	430.2
60°	2570.0	933.9	256.3	287.5	381.2	448.0	666.5	677.6	445.8	361.1	356.6
62.5°	1319.6	461.4	198.4	202.8	234.0	263.0	456.9	568.4	403.4	343.3	343.3
65°	441.3	227.4	173.9	156.0	156.0	162.7	276.4	394.5	341.0	287.5	287.5
67.5°	189.5	169.4	151.6	136.0	124.8	118.1	156.0	229.6	254.1	218.4	209.5
70°	147.1	142.7	131.5	113.7	98.1	89.2	91.4	118.1	144.9	140.4	136.0
72.5°	109.2	109.2	104.8	89.2	75.8	64.6	60.2	62.4	69.1	71.3	73.6
75°	75.8	78.0	78.0	69.1	55.7	46.8	40.1	33.4	26.7	22.3	20.1
77.5°	51.3	53.5	58.0	51.3	42.4	31.2	24.5	17.8	11.1	4.5	4.5
80°	44.6	51.3	55.7	51.3	44.6	33.4	24.5	13.4	6.7	0.0	0.0
82.5°	46.8	51.3	58.0	49.0	42.4	31.2	24.5	15.6	6.7	2.2	0.0
85°	11.1	11.1	13.4	15.6	20.1	22.3	17.8	11.1	6.7	2.2	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	2.2	2.2	2.2	2.2	0.0	0.0
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)