

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: P529831

Luminaire Tested: **GALN-SA5A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529831
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-SA5A-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 12685 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

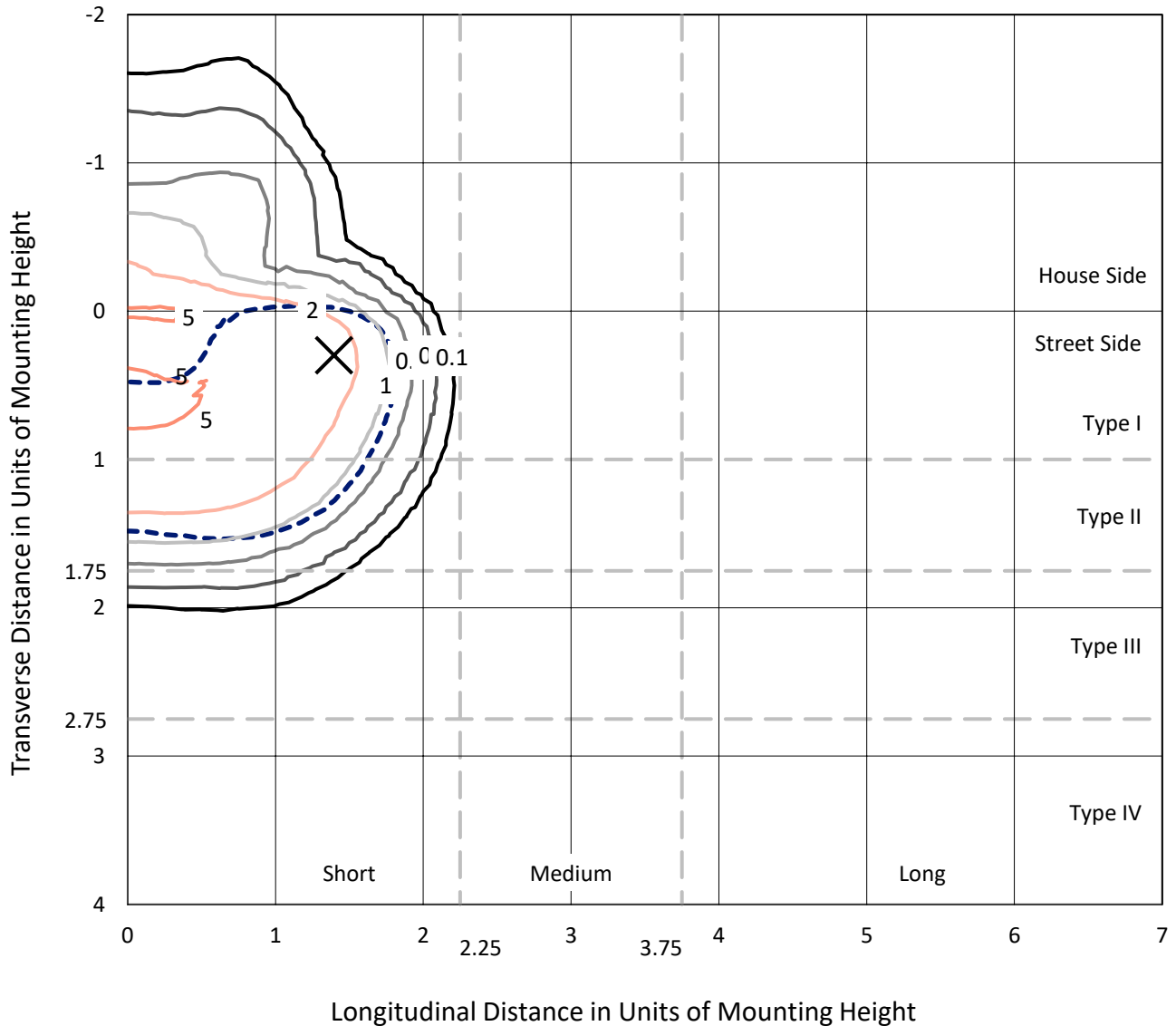
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

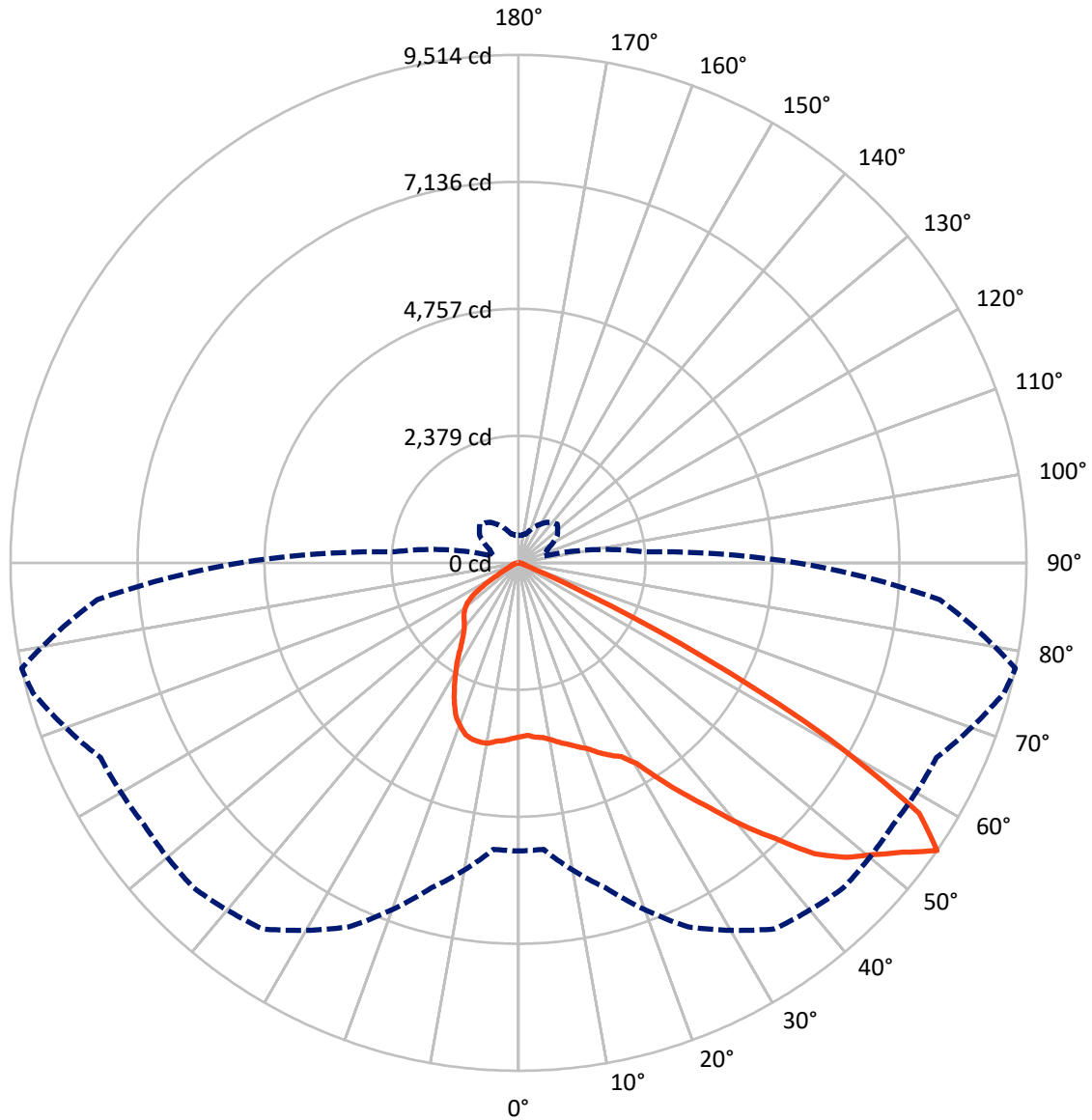
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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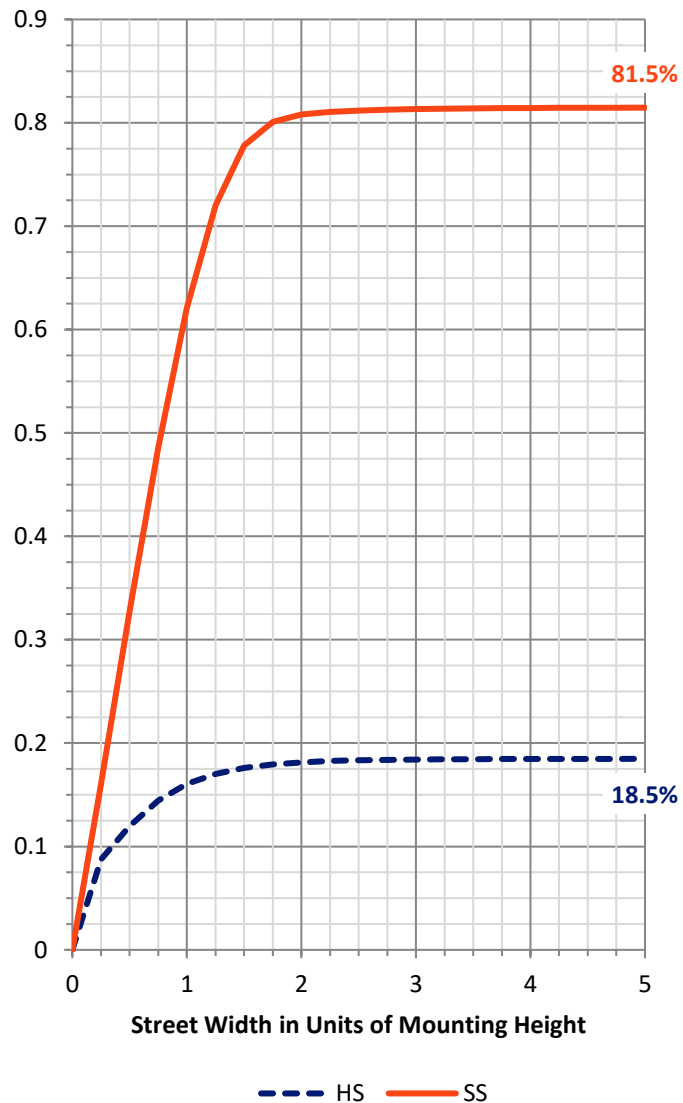
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2356.1	0.0	2356.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10328.9	0.0	10328.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	12685.0	0.0	12685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.8	2.3
10°-20°	769.6	6.1
20°-30°	1349.0	10.6
30°-40°	2224.4	17.5
40°-50°	3236.7	25.5
50°-60°	3667.5	28.9
60°-70°	1048.6	8.3
70°-80°	81.4	0.6
80°-90°	16.9	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°	12685.0	100.0
0°-180°	12685.0	100.0

Coefficient of Utilization



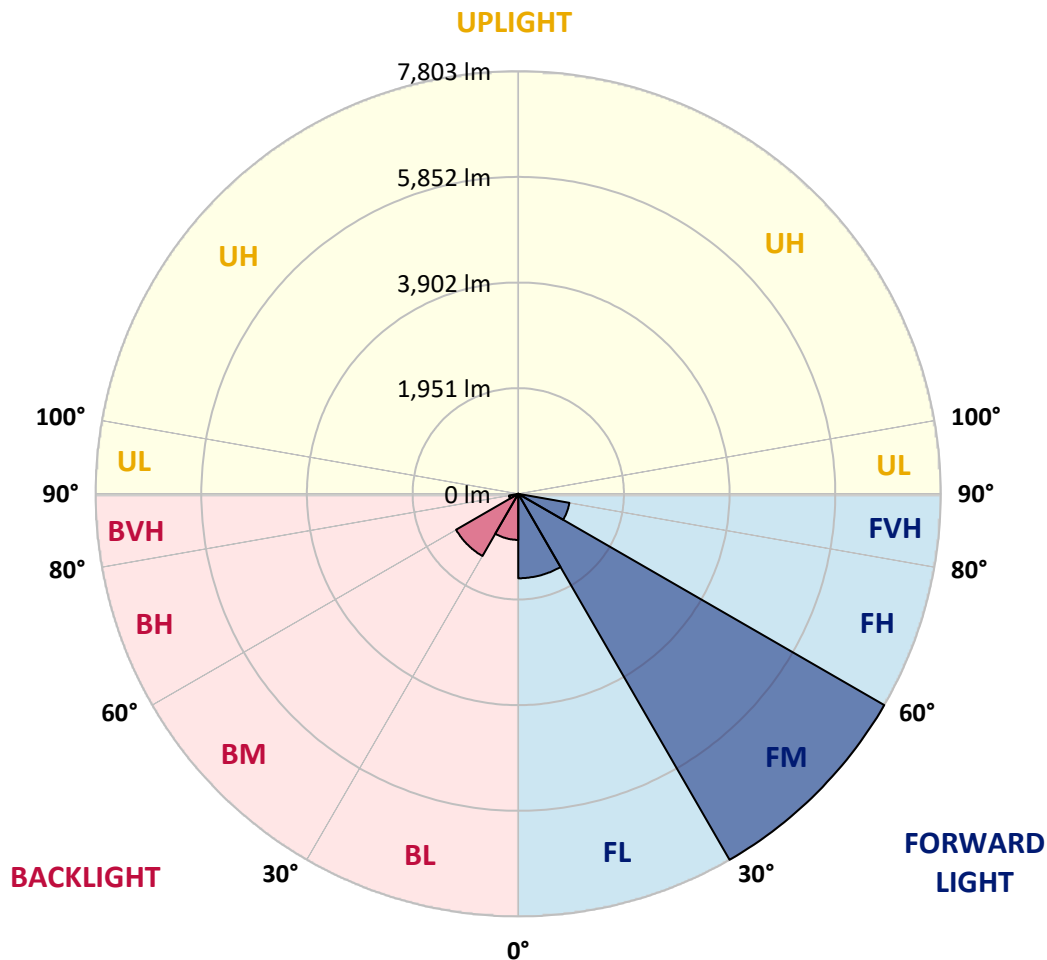
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.4	12.3			
FM (30°-60°)	7803.3	61.5			
FH (60°-80°)	958.1	7.6			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	850.1	6.7	B2/1000		
BM (30°-60°)	1325.3	10.4	B2/2500		
BH (60°-80°)	172.0	1.4	B1/500		G1/500
BVH (80°-90°)	8.7	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°	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3
2.5°	3066.3	3095.8	3100.3	3136.6	3134.3	3195.6	3213.7	3216.0	3256.8	3236.4	3288.5
5°	2980.1	2964.2	2957.4	3020.9	3039.1	3093.5	3138.9	3166.1	3250.0	3279.5	3333.9
7.5°	2903.0	2903.0	2907.5	2964.2	2957.4	3027.7	3075.3	3159.3	3281.7	3306.7	3372.5
10°	2828.1	2800.9	2834.9	2893.9	2943.8	2975.6	3075.3	3154.7	3297.6	3370.2	3460.9
12.5°	2789.6	2803.2	2807.7	2850.8	2905.3	3000.5	3054.9	3186.5	3411.0	3454.1	3551.6
15°	3032.3	3005.0	2939.3	2900.7	2946.1	2991.4	3127.5	3261.3	3470.0	3531.2	3640.1
17.5°	3313.5	3290.8	3236.4	3132.0	3030.0	3113.9	3220.5	3343.0	3533.5	3624.2	3785.2
20°	3680.9	3644.6	3590.2	3386.1	3297.6	3206.9	3320.3	3465.4	3637.8	3719.4	3885.0
22.5°	4118.6	4118.6	3996.1	3748.9	3565.2	3479.0	3526.7	3610.6	3753.5	3864.6	4027.9
25°	4574.5	4560.9	4449.7	4193.5	3882.7	3780.7	3835.1	3894.1	3932.6	3993.9	4102.7
27.5°	5096.1	5016.7	4876.1	4592.6	4318.2	4120.9	4179.8	4127.7	4080.1	4111.8	4268.3
30°	5449.9	5499.8	5320.6	5048.5	4789.9	4569.9	4581.3	4535.9	4318.2	4363.5	4456.5
32.5°	5817.3	5849.1	5749.3	5599.6	5341.0	5084.8	4991.8	4953.2	4789.9	4810.3	4719.6
35°	6123.5	6184.7	6096.3	6030.5	5955.7	5749.3	5493.0	5617.7	5354.6	5304.7	5068.9
37.5°	6404.7	6386.6	6490.9	6422.9	6407.0	6261.8	5980.6	6005.5	5828.6	5817.3	5545.2
40°	6656.5	6661.0	6803.9	6835.6	6772.1	6513.6	6105.3	6302.7	6445.5	6459.1	6109.9
42.5°	6865.1	6926.3	7048.8	7305.1	7209.8	6778.9	6234.6	6450.1	6980.8	7064.7	6645.1
45°	7046.5	7171.3	7323.2	7552.3	7497.9	7155.4	6556.7	6754.0	7552.3	7772.3	7148.6
47.5°	7057.9	7221.2	7386.7	7726.9	7795.0	7357.2	6890.1	7234.8	8005.9	8244.0	7516.0
50°	7012.5	7098.7	7429.8	7799.5	7953.7	7686.1	7357.2	7638.5	8445.9	8595.6	7702.0
52.5°	6475.0	6540.8	7205.3	7867.5	8239.5	8058.0	7976.4	8200.9	8894.9	9006.1	7876.6
55°	5397.7	5386.4	6300.4	7525.1	8371.0	8609.2	8559.3	8638.6	9414.3	9514.1	7919.7
57.5°	3692.2	3898.6	4687.9	6266.4	7565.9	8479.9	8532.1	8400.5	8808.7	8847.3	6903.7
60°	1991.3	2077.4	2712.5	4182.1	5760.6	6910.5	7046.5	6808.4	6776.7	6667.8	4928.3
62.5°	791.5	834.6	1195.2	2070.6	3138.9	4200.3	4492.8	4395.3	4186.6	3900.9	2551.5
65°	376.5	403.7	594.2	968.4	1392.5	1750.9	2043.4	2134.1	1574.0	1417.5	841.4
67.5°	256.3	276.7	433.2	553.4	496.7	519.4	675.9	628.2	369.7	315.2	233.6
70°	195.0	208.7	347.0	376.5	222.3	156.5	174.6	163.3	152.0	154.2	152.0
72.5°	138.3	149.7	254.0	222.3	97.5	72.6	93.0	111.1	111.1	111.1	108.9
75°	83.9	95.3	147.4	86.2	38.6	38.6	59.0	74.8	79.4	81.6	77.1
77.5°	43.1	54.4	49.9	24.9	24.9	29.5	43.1	52.2	56.7	56.7	54.4
80°	9.1	9.1	9.1	13.6	24.9	31.8	43.1	47.6	54.4	54.4	49.9
82.5°	0.0	2.3	6.8	13.6	22.7	29.5	40.8	47.6	54.4	56.7	52.2
85°	0.0	2.3	4.5	9.1	15.9	18.1	15.9	13.6	13.6	13.6	13.6
87.5°	0.0	0.0	2.3	2.3	2.3	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°	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3	3261.3
2.5°	3293.1	3299.9	3288.5	3286.3	3277.2	3304.4	3238.6	3222.8	3263.6	3225.0	3234.1
5°	3336.2	3352.0	3331.6	3297.6	3247.7	3170.6	3104.8	3018.6	2977.8	2948.3	2943.8
7.5°	3367.9	3379.3	3358.8	3250.0	3100.3	2905.3	2760.1	2653.5	2569.6	2544.6	2503.8
10°	3497.2	3499.5	3397.4	3157.0	2864.4	2608.1	2385.9	2222.6	2138.7	2086.5	2063.8
12.5°	3583.4	3578.8	3372.5	2973.3	2583.2	2243.0	1989.0	1791.7	1714.6	1689.6	1673.8
15°	3692.2	3667.3	3313.5	2785.1	2220.3	1852.9	1623.9	1487.8	1481.0	1465.1	1481.0
17.5°	3778.4	3708.1	3227.3	2442.6	1873.3	1526.3	1376.6	1385.7	1403.9	1419.7	1422.0
20°	3919.0	3773.9	3030.0	2143.2	1551.3	1308.6	1306.3	1347.2	1392.5	1410.7	1428.8
22.5°	4025.6	3801.1	2819.1	1823.4	1288.2	1220.2	1258.7	1320.0	1354.0	1372.1	1399.3
25°	4064.2	3726.3	2537.8	1503.7	1161.2	1179.3	1238.3	1279.1	1322.2	1342.6	1331.3
27.5°	4102.7	3687.7	2202.2	1238.3	1093.2	1152.1	1202.0	1242.8	1256.4	1283.7	1301.8
30°	4195.7	3553.9	1900.5	1070.5	1059.1	1134.0	1170.3	1183.9	1220.2	1236.0	1236.0
32.5°	4270.6	3501.7	1580.8	991.1	1054.6	1143.0	1147.6	1147.6	1152.1	1140.8	1136.2
35°	4424.8	3322.6	1295.0	943.5	1052.3	1145.3	1156.7	1118.1	1013.8	973.0	961.6
37.5°	4615.3	3206.9	1084.1	932.1	1068.2	1172.5	1190.7	1045.5	909.5	843.7	832.3
40°	4846.6	3125.2	945.7	927.6	1104.5	1236.0	1181.6	988.8	811.9	716.7	712.1
42.5°	5116.5	3050.4	852.8	925.3	1149.9	1301.8	1172.5	941.2	712.1	648.6	657.7
45°	5332.0	3009.6	789.2	909.5	1165.7	1340.4	1179.3	857.3	671.3	630.5	635.0
47.5°	5499.8	2923.4	737.1	882.2	1163.5	1354.0	1118.1	823.3	650.9	662.2	673.6
50°	5504.3	2807.7	671.3	823.3	1129.4	1329.0	1047.8	791.5	646.4	694.0	716.7
52.5°	5443.1	2644.4	601.0	739.4	1050.1	1242.8	984.3	777.9	626.0	621.4	648.6
55°	5225.4	2338.3	483.1	598.7	886.8	1025.1	927.6	753.0	564.7	512.6	517.1
57.5°	4222.9	1676.0	356.1	428.6	628.2	750.7	836.9	741.6	508.0	435.4	437.7
60°	2615.0	950.3	260.8	292.6	387.8	455.9	678.1	689.5	453.6	367.4	362.9
62.5°	1342.6	469.5	201.8	206.4	238.1	267.6	464.9	578.3	410.5	349.3	349.3
65°	449.1	231.3	176.9	158.8	158.8	165.6	281.2	401.4	347.0	292.6	292.6
67.5°	192.8	172.4	154.2	138.3	127.0	120.2	158.8	233.6	258.5	222.3	213.2
70°	149.7	145.1	133.8	115.7	99.8	90.7	93.0	120.2	147.4	142.9	138.3
72.5°	111.1	111.1	106.6	90.7	77.1	65.8	61.2	63.5	70.3	72.6	74.8
75°	77.1	79.4	79.4	70.3	56.7	47.6	40.8	34.0	27.2	22.7	20.4
77.5°	52.2	54.4	59.0	52.2	43.1	31.8	24.9	18.1	11.3	4.5	4.5
80°	45.4	52.2	56.7	52.2	45.4	34.0	24.9	13.6	6.8	0.0	0.0
82.5°	47.6	52.2	59.0	49.9	43.1	31.8	24.9	15.9	6.8	2.3	0.0
85°	11.3	11.3	13.6	15.9	20.4	22.7	18.1	11.3	6.8	2.3	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	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)