

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: P651314

Luminaire Tested: **GALN-SA3D-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651314
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-SA3D-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 11811.8 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

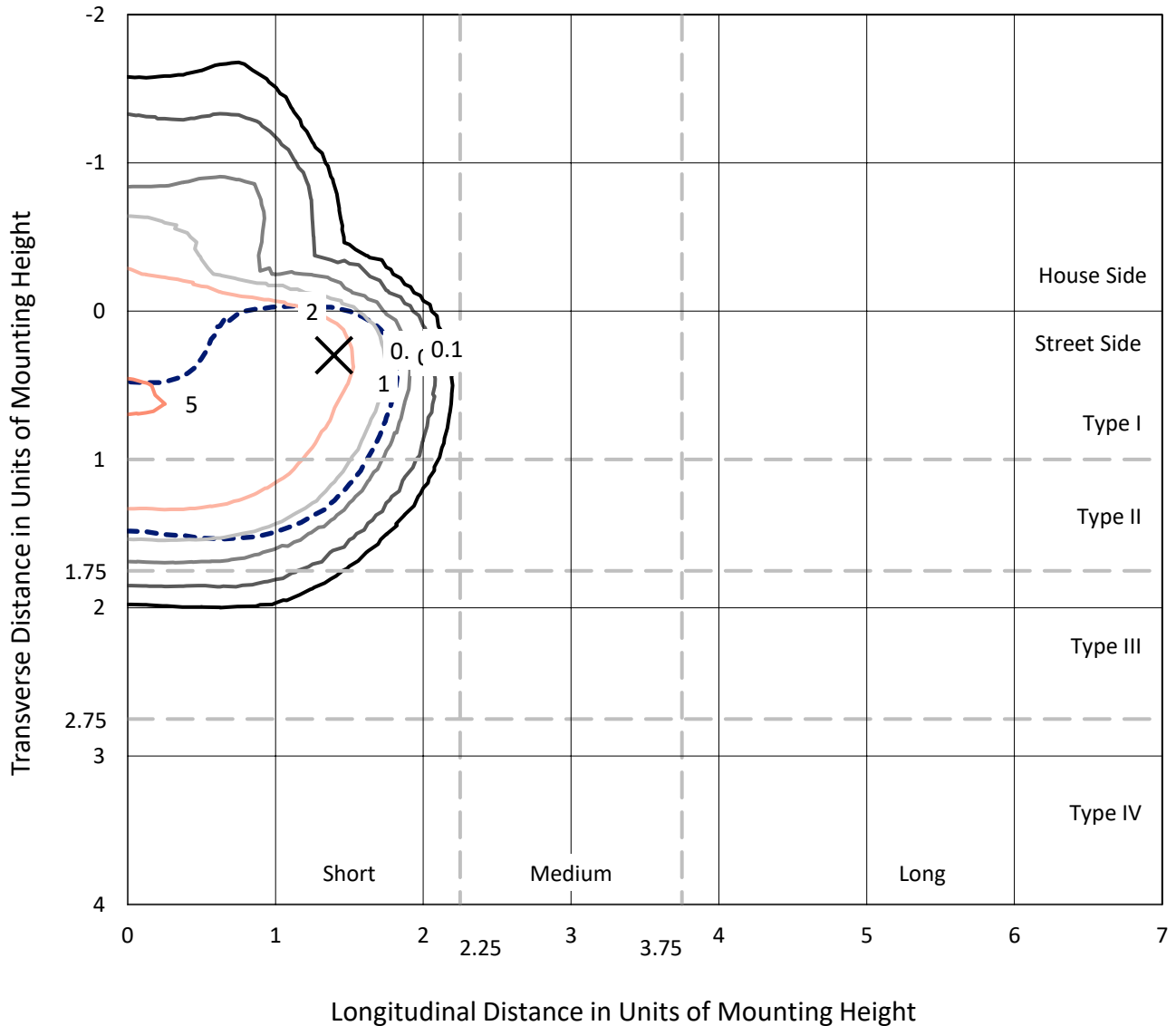
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

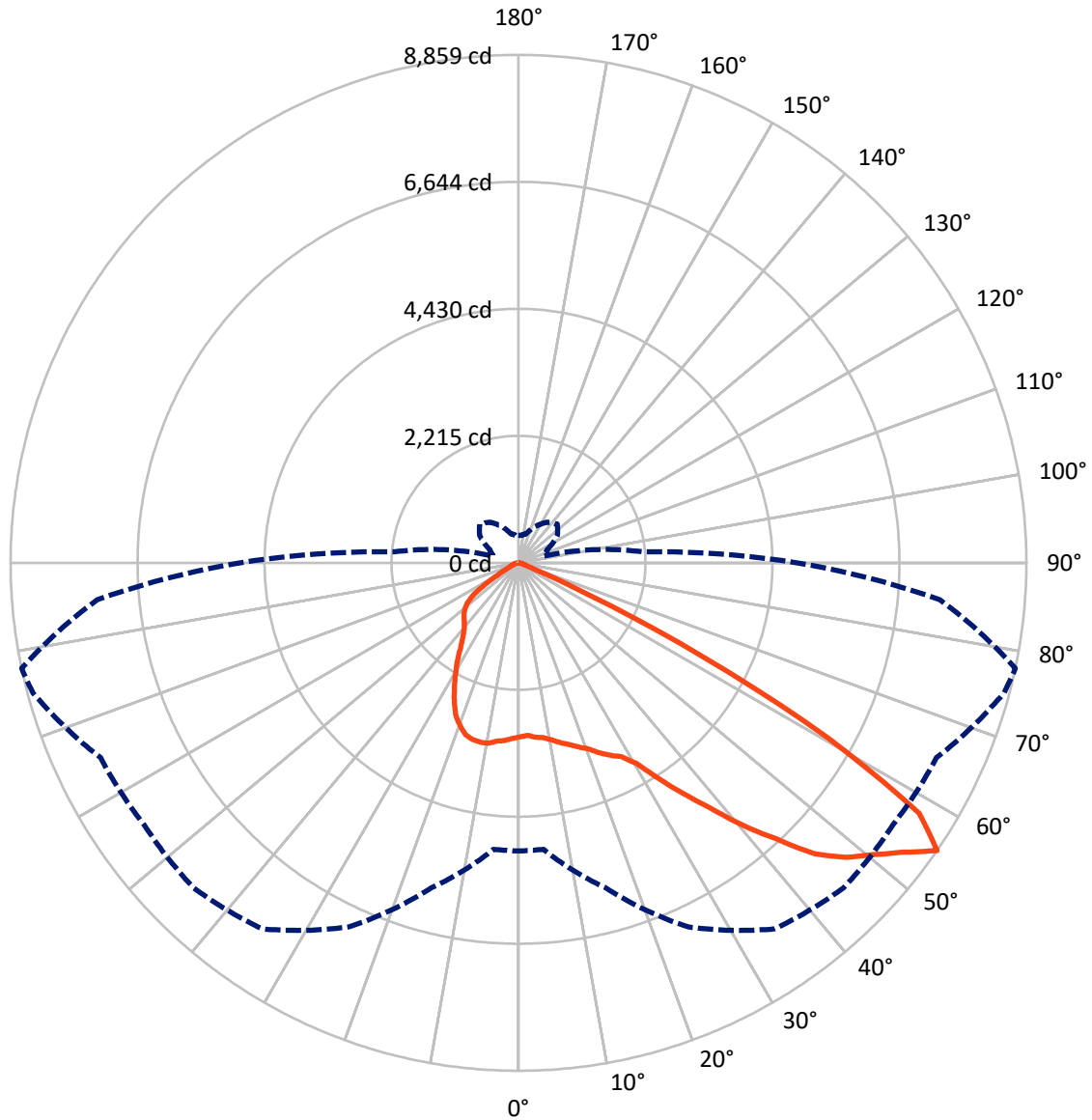
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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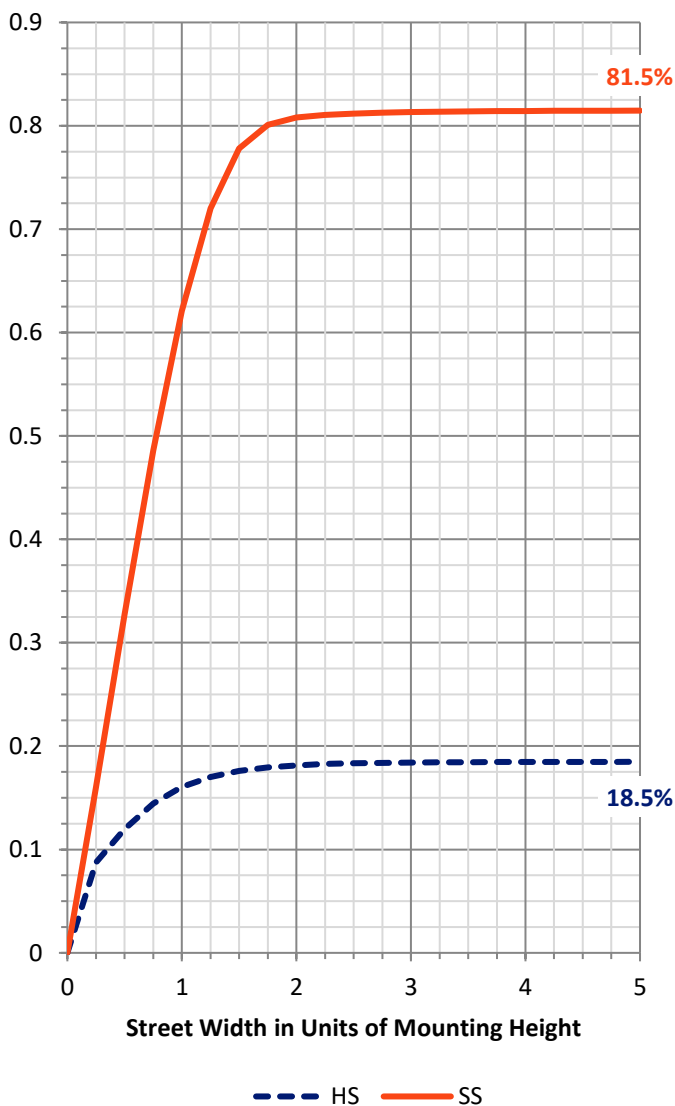
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2193.9	0.0	2193.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9617.9	0.0	9617.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	11811.8	0.0	11811.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.8	2.3
10°-20°	716.6	6.1
20°-30°	1256.2	10.6
30°-40°	2071.2	17.5
40°-50°	3013.9	25.5
50°-60°	3415.1	28.9
60°-70°	976.4	8.3
70°-80°	75.8	0.6
80°-90°	15.8	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°	11811.8	100.0
0°-180°	11811.8	100.0

Coefficient of Utilization

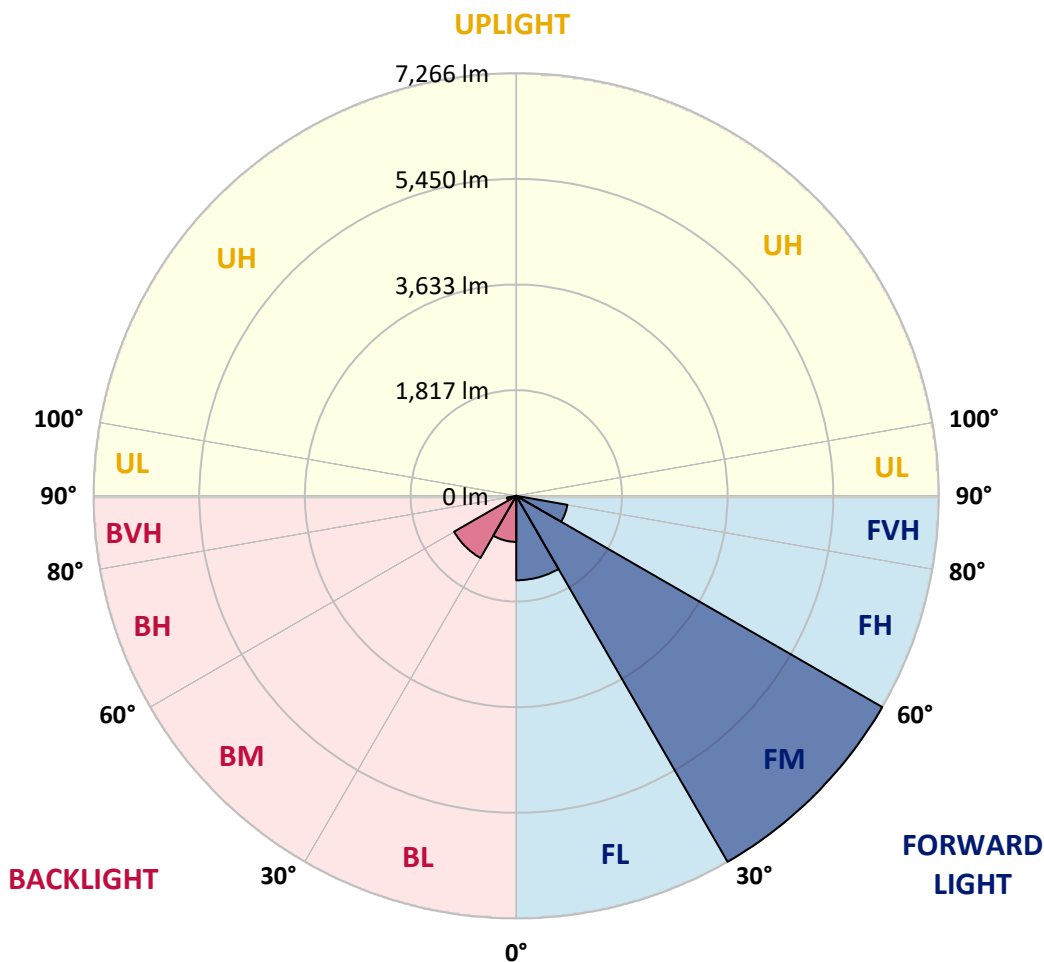


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.0	12.3			
FM (30°-60°)	7266.1	61.5			
FH (60°-80°)	892.1	7.6			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	791.6	6.7	B2/1000		
BM (30°-60°)	1234.1	10.4	B2/2500		
BH (60°-80°)	160.1	1.4	B1/500		G1/500
BVH (80°-90°)	8.1	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°	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9
2.5°	2855.2	2882.7	2886.9	2920.7	2918.6	2975.6	2992.4	2994.6	3032.6	3013.6	3062.2
5°	2775.0	2760.2	2753.9	2813.0	2829.9	2880.6	2922.8	2948.1	3026.3	3053.8	3104.4
7.5°	2703.1	2703.1	2707.3	2760.2	2753.9	2819.3	2863.7	2941.8	3055.9	3079.1	3140.3
10°	2633.5	2608.1	2639.8	2694.7	2741.2	2770.8	2863.7	2937.6	3070.7	3138.2	3222.7
12.5°	2597.6	2610.2	2614.5	2654.6	2705.2	2794.0	2844.7	2967.1	3176.2	3216.3	3307.1
15°	2823.6	2798.2	2737.0	2701.0	2743.3	2785.6	2912.2	3036.9	3231.1	3288.1	3389.5
17.5°	3085.4	3064.3	3013.6	2916.4	2821.4	2899.6	2998.8	3112.9	3290.2	3374.8	3524.6
20°	3427.5	3393.8	3343.1	3153.0	3070.7	2986.1	3091.8	3226.9	3387.4	3463.4	3617.6
22.5°	3835.1	3835.1	3721.1	3490.9	3319.8	3239.5	3283.9	3362.1	3495.1	3598.6	3750.6
25°	4259.6	4246.9	4143.4	3904.8	3615.5	3520.4	3571.1	3626.1	3662.0	3719.0	3820.3
27.5°	4745.3	4671.4	4540.5	4276.5	4021.0	3837.2	3892.1	3843.5	3799.2	3828.7	3974.5
30°	5074.8	5121.2	4954.4	4700.9	4460.2	4255.4	4265.9	4223.7	4021.0	4063.2	4149.7
32.5°	5416.9	5446.5	5353.6	5214.1	4973.4	4734.7	4648.2	4612.3	4460.2	4479.3	4394.7
35°	5702.0	5759.0	5676.7	5615.4	5545.7	5353.6	5114.9	5231.0	4986.0	4939.6	4719.9
37.5°	5963.9	5947.0	6044.1	5980.8	5966.0	5830.8	5568.9	5592.1	5427.5	5416.9	5163.5
40°	6198.3	6202.5	6335.5	6365.1	6306.0	6065.2	5685.1	5868.8	6001.9	6014.5	5689.3
42.5°	6392.5	6449.5	6563.6	6802.3	6713.5	6312.3	5805.4	6006.1	6500.3	6578.4	6187.7
45°	6561.5	6677.6	6819.2	7032.4	6981.7	6662.9	6105.3	6289.1	7032.4	7237.3	6656.5
47.5°	6572.1	6724.1	6878.3	7195.1	7258.4	6850.8	6415.8	6736.7	7454.8	7676.6	6998.6
50°	6529.9	6610.1	6918.4	7262.6	7406.3	7157.1	6850.8	7112.7	7864.5	8003.9	7171.8
52.5°	6029.3	6090.5	6709.3	7326.0	7672.4	7503.4	7427.4	7636.4	8282.7	8386.1	7334.4
55°	5026.2	5015.6	5866.7	7007.1	7794.8	8016.6	7970.1	8044.0	8766.2	8859.2	7374.6
57.5°	3438.1	3630.3	4365.2	5835.0	7045.1	7896.1	7944.8	7822.3	8202.4	8238.3	6428.4
60°	1854.2	1934.5	2525.8	3894.3	5364.1	6434.8	6561.5	6339.8	6310.2	6208.9	4589.0
62.5°	737.1	777.2	1113.0	1928.1	2922.8	3911.2	4183.6	4092.7	3898.5	3632.4	2375.8
65°	350.5	375.9	553.3	901.7	1296.7	1630.4	1902.8	1987.3	1465.6	1319.9	783.5
67.5°	238.7	257.7	403.3	515.3	462.5	483.6	629.3	585.0	344.2	293.5	217.5
70°	181.7	194.3	323.1	350.5	207.0	145.7	162.6	152.1	141.5	143.6	141.5
72.5°	128.8	139.4	236.5	207.0	90.8	67.6	86.6	103.4	103.4	103.4	101.3
75°	78.1	88.7	137.3	80.2	35.9	35.9	54.9	69.7	73.9	76.0	71.8
77.5°	40.1	50.7	46.4	23.2	23.2	27.4	40.1	48.6	52.8	52.8	50.7
80°	8.4	8.4	8.4	12.7	23.2	29.6	40.1	44.3	50.7	50.7	46.4
82.5°	0.0	2.1	6.3	12.7	21.1	27.4	38.0	44.3	50.7	52.8	48.6
85°	0.0	2.1	4.2	8.4	14.8	16.9	14.8	12.7	12.7	12.7	12.7
87.5°	0.0	0.0	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2
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°	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9	3036.9
2.5°	3066.4	3072.8	3062.2	3060.1	3051.7	3077.0	3015.7	3000.9	3039.0	3003.0	3011.5
5°	3106.5	3121.3	3102.3	3070.7	3024.2	2952.3	2891.1	2810.9	2772.9	2745.4	2741.2
7.5°	3136.1	3146.7	3127.7	3026.3	2886.9	2705.2	2570.1	2470.9	2392.7	2369.5	2331.5
10°	3256.4	3258.5	3163.5	2939.7	2667.2	2428.6	2221.7	2069.6	1991.5	1942.9	1921.8
12.5°	3336.8	3332.5	3140.3	2768.7	2405.4	2088.6	1852.1	1668.4	1596.6	1573.3	1558.5
15°	3438.1	3414.9	3085.4	2593.3	2067.5	1725.4	1512.1	1385.4	1379.1	1364.3	1379.1
17.5°	3518.3	3452.9	3005.1	2274.5	1744.4	1421.3	1281.9	1290.3	1307.3	1322.1	1324.2
20°	3649.3	3514.1	2821.4	1995.7	1444.5	1218.5	1216.4	1254.4	1296.7	1313.6	1330.5
22.5°	3748.5	3539.4	2625.0	1697.9	1199.5	1136.2	1172.1	1229.1	1260.7	1277.6	1303.0
25°	3784.4	3469.8	2363.1	1400.2	1081.3	1098.2	1153.1	1191.1	1231.2	1250.2	1239.6
27.5°	3820.3	3433.9	2050.6	1153.1	1017.9	1072.8	1119.3	1157.3	1170.0	1195.3	1212.2
30°	3906.9	3309.3	1769.7	996.8	986.2	1056.0	1089.7	1102.4	1136.2	1151.0	1151.0
32.5°	3976.6	3260.7	1471.9	922.9	982.0	1064.4	1068.6	1068.6	1072.8	1062.3	1058.1
35°	4120.2	3093.9	1205.8	878.5	979.9	1066.5	1077.1	1041.2	944.0	906.0	895.4
37.5°	4297.6	2986.1	1009.5	868.0	994.7	1091.8	1108.7	973.5	846.9	785.6	775.1
40°	4513.0	2910.1	880.6	863.7	1028.5	1151.0	1100.3	920.7	756.1	667.3	663.1
42.5°	4764.3	2840.4	794.1	861.6	1070.7	1212.2	1091.8	876.4	663.1	604.0	612.4
45°	4964.9	2802.4	734.9	846.9	1085.5	1248.1	1098.2	798.3	625.1	587.1	591.3
47.5°	5121.2	2722.1	686.3	821.5	1083.4	1260.7	1041.2	766.6	606.1	616.6	627.2
50°	5125.5	2614.5	625.1	766.6	1051.7	1237.5	975.6	737.1	601.9	646.2	667.3
52.5°	5068.5	2462.4	559.6	688.4	977.7	1157.3	916.5	724.4	582.9	578.6	604.0
55°	4865.7	2177.3	449.9	557.5	825.7	954.5	863.7	701.1	525.9	477.3	481.5
57.5°	3932.3	1560.6	331.5	399.1	585.0	699.0	779.3	690.5	473.1	405.4	407.5
60°	2434.9	884.9	242.9	272.4	361.1	424.5	631.4	642.0	422.4	342.1	337.9
62.5°	1250.2	437.2	188.0	192.2	221.8	249.2	432.9	538.5	382.2	325.2	325.2
65°	418.1	215.4	164.8	147.8	147.8	154.2	261.9	373.8	323.1	272.4	272.4
67.5°	179.5	160.5	143.6	128.8	118.2	111.9	147.8	217.5	240.8	207.0	198.5
70°	139.4	135.1	124.6	107.7	92.9	84.4	86.6	111.9	137.3	133.0	128.8
72.5°	103.4	103.4	99.2	84.4	71.8	61.2	57.0	59.1	65.4	67.6	69.7
75°	71.8	73.9	73.9	65.4	52.8	44.3	38.0	31.7	25.3	21.1	19.0
77.5°	48.6	50.7	54.9	48.6	40.1	29.6	23.2	16.9	10.6	4.2	4.2
80°	42.2	48.6	52.8	48.6	42.2	31.7	23.2	12.7	6.3	0.0	0.0
82.5°	44.3	48.6	54.9	46.4	40.1	29.6	23.2	14.8	6.3	2.1	0.0
85°	10.6	10.6	12.7	14.8	19.0	21.1	16.9	10.6	6.3	2.1	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	2.1	2.1	2.1	2.1	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)