

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: P531465

Luminaire Tested: **GALN-SA6D-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27631 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

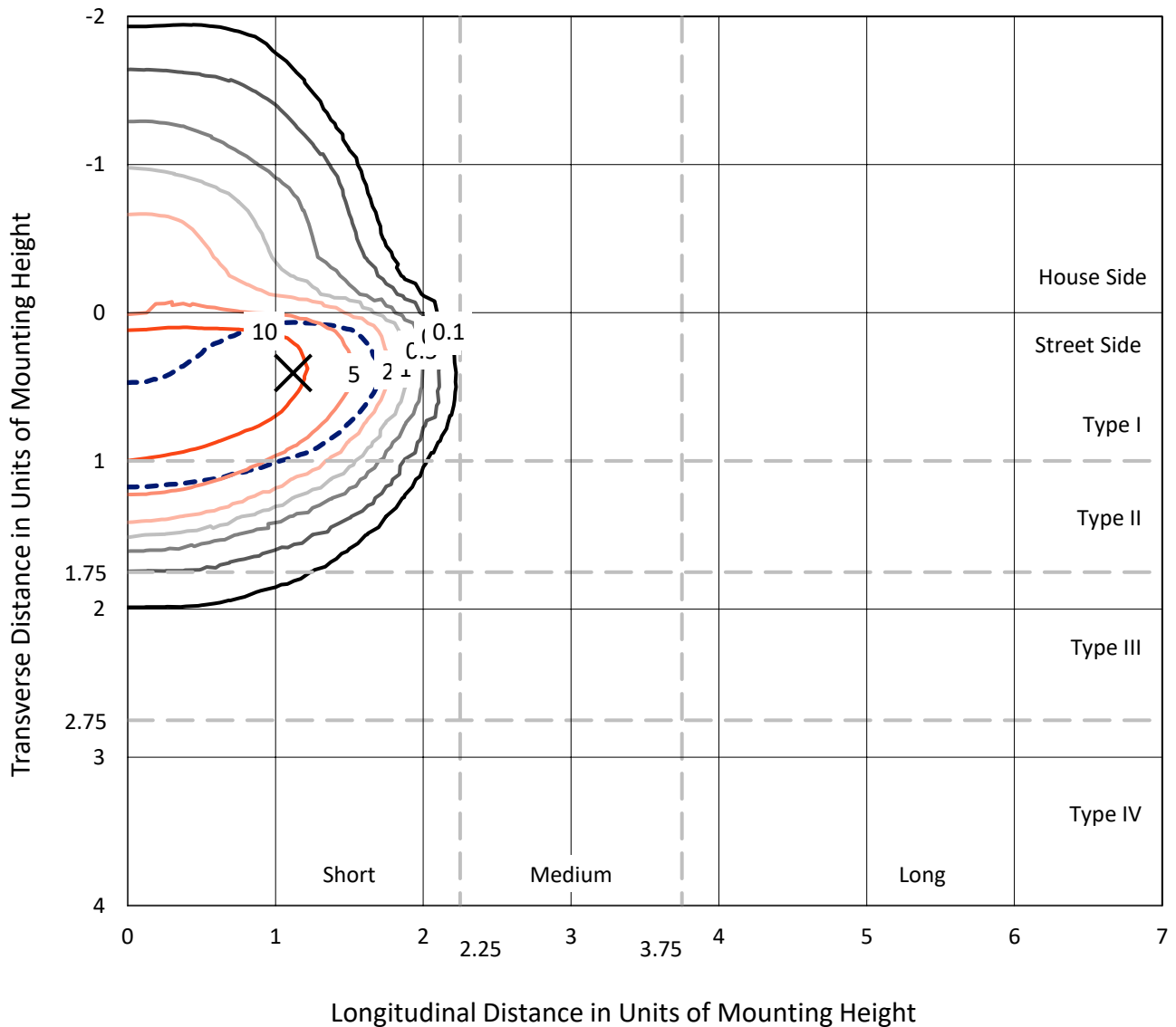
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

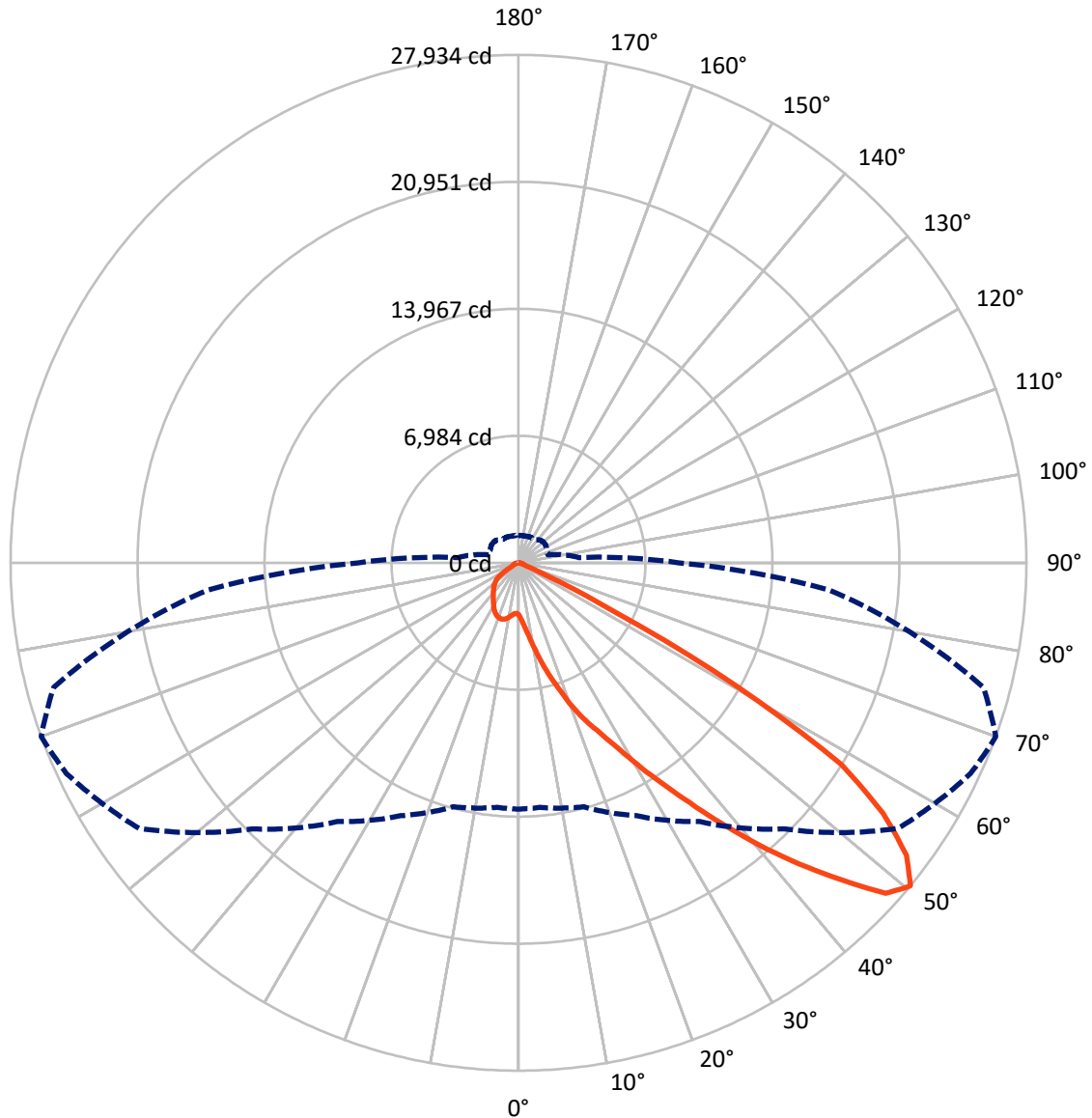
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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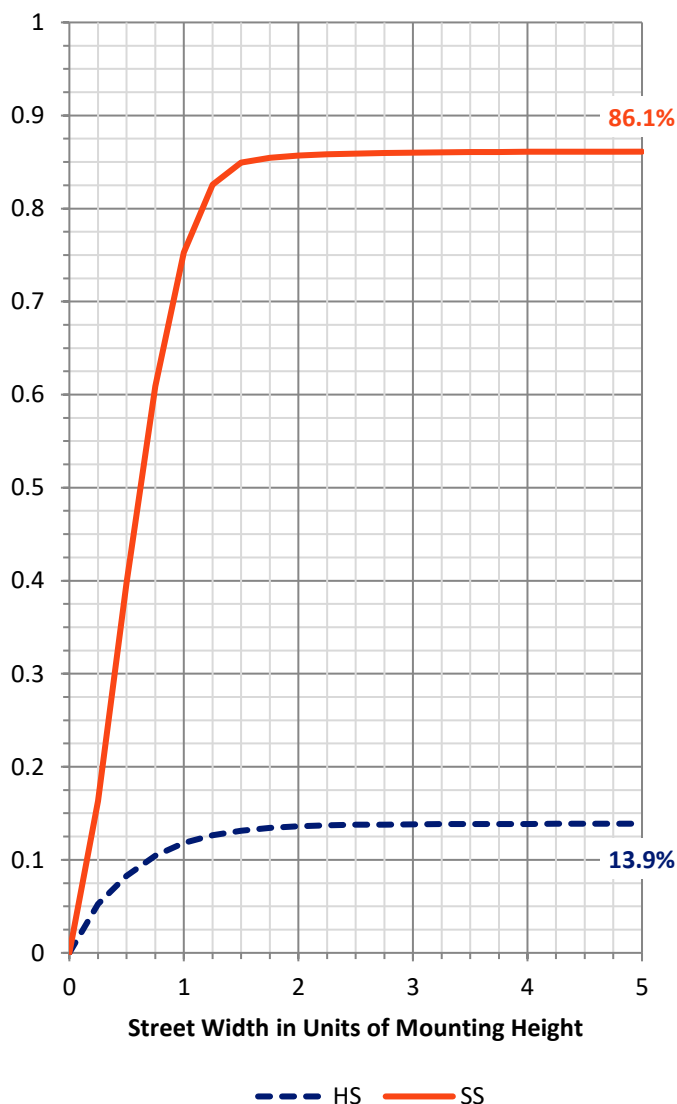
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3858.9	0.0	3858.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	23772.1	0.0	23772.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	27631.0	0.0	27631.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	1.3
10°-20°	1609.9	5.8
20°-30°	3377.2	12.2
30°-40°	5821.2	21.1
40°-50°	8507.6	30.8
50°-60°	6626.1	24.0
60°-70°	1122.7	4.1
70°-80°	154.2	0.6
80°-90°	40.0	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°	27631.0	100.0
0°-180°	27631.0	100.0

Coefficient of Utilization



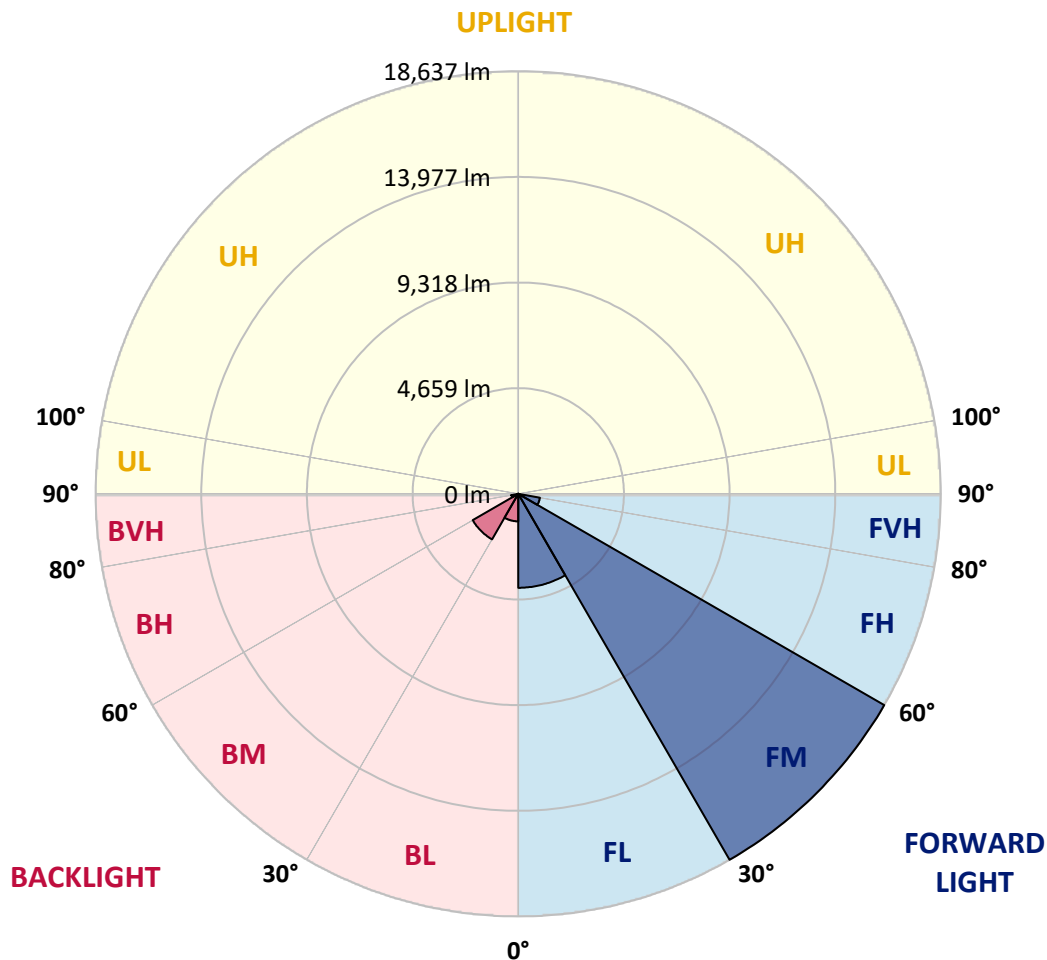
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4145.0	15.0			
FM (30°-60°)	18636.6	67.4			
FH (60°-80°)	972.1	3.5			G1/1800
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	1214.3	4.4	B3/2500		
BM (30°-60°)	2318.3	8.4	B2/2500		
BH (60°-80°)	304.8	1.1	B1/500		G1/500
BVH (80°-90°)	21.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0
2.5°	3747.9	3720.6	3661.6	3552.5	3507.1	3398.1	3334.5	3211.8	3134.6	3048.3	2952.9
5°	5278.9	5138.0	5051.7	4929.0	4570.2	4347.6	3979.6	3666.1	3520.7	3361.7	3143.7
7.5°	6859.8	6768.9	6650.8	6387.3	6142.0	5678.6	5047.2	4356.6	4061.4	3788.8	3357.2
10°	8168.1	7913.7	7900.1	7704.8	7436.7	6882.5	6123.8	5265.2	4738.2	4338.5	3661.6
12.5°	9081.3	8849.6	8954.1	8931.3	8681.5	8172.7	7295.9	6160.2	5610.5	4988.1	3975.0
15°	9912.6	9817.2	9785.4	9758.2	9658.2	9281.1	8495.2	7250.5	6455.5	5705.9	4329.4
17.5°	10725.8	10480.5	10598.6	10621.3	10612.2	10271.5	9535.5	8286.3	7350.4	6464.5	4701.9
20°	11448.1	11470.8	11311.8	11280.0	11252.8	11239.1	10521.4	9312.9	8449.8	7259.6	5188.0
22.5°	12374.9	12215.9	12356.7	12265.8	12088.7	11979.6	11429.9	10221.5	9403.8	8218.1	5683.2
25°	13469.7	13596.9	13265.3	13228.9	13033.6	12656.5	12161.3	11239.1	10321.5	9108.5	6219.2
27.5°	14818.9	14596.3	14510.0	14310.1	13955.8	13796.8	13215.3	12288.5	11429.9	10044.4	6737.1
30°	15977.4	15918.3	15486.7	15250.5	14941.6	14937.1	14123.9	13710.5	12874.6	11511.7	7450.4
32.5°	16922.3	16663.4	16504.4	16340.8	16091.0	16159.1	15473.1	15255.1	14414.6	12874.6	8290.8
35°	17553.8	17367.5	17272.1	17022.2	16949.6	17253.9	16967.7	16876.9	16186.4	14791.7	9276.6
37.5°	17753.7	17812.7	17794.5	17481.1	17635.5	18457.8	18825.8	18589.6	18226.1	16813.3	10344.2
40°	17930.8	17971.7	17880.9	18248.8	18689.5	19625.3	20956.4	20565.7	20429.4	18862.1	11829.7
42.5°	18030.8	17999.0	17999.0	18635.0	19302.8	21183.5	23014.3	22755.4	22650.9	21042.7	13546.9
45°	17599.2	17290.3	17621.9	18485.1	19829.8	21951.3	24658.9	25017.8	24867.8	23636.7	15554.9
47.5°	15986.5	16177.3	16363.5	17517.4	19189.2	21715.1	25667.4	26889.4	27166.5	25817.3	16872.3
50°	13546.9	13506.0	13892.2	15345.9	17376.6	20697.5	25472.0	27430.0	27934.3	26471.5	17149.5
52.5°	9853.6	10153.4	10571.3	12016.0	14423.7	18062.6	22950.7	26035.4	26707.7	25667.4	16967.7
55°	5737.7	5406.1	6346.4	7568.5	9839.9	13624.2	19402.7	23077.9	24322.7	24204.6	16050.1
57.5°	2298.7	2226.0	2548.6	3434.4	5133.5	8445.3	14110.2	18962.1	20956.4	22169.4	14105.7
60°	1008.5	985.8	1158.4	1399.2	2098.8	3893.3	7718.4	11793.4	13874.0	15491.3	9708.2
62.5°	726.9	717.8	804.1	890.4	1108.5	1694.5	3243.6	4751.9	5923.9	7155.1	4347.6
65°	586.0	608.7	667.8	713.2	817.7	940.4	1144.8	1322.0	1621.8	1680.9	958.6
67.5°	477.0	495.2	549.7	599.7	617.8	508.8	527.0	463.4	463.4	413.4	331.6
70°	349.8	354.3	417.9	477.0	381.6	204.4	358.9	358.9	322.5	308.9	281.7
72.5°	258.9	263.5	313.5	295.3	149.9	127.2	263.5	290.7	263.5	249.9	227.1
75°	190.8	195.3	163.5	68.1	63.6	81.8	154.5	199.9	190.8	186.3	172.6
77.5°	36.3	27.3	22.7	31.8	45.4	68.1	99.9	122.7	127.2	136.3	127.2
80°	4.5	4.5	13.6	27.3	50.0	72.7	104.5	118.1	122.7	127.2	118.1
82.5°	0.0	4.5	13.6	27.3	50.0	68.1	90.9	104.5	113.6	118.1	113.6
85°	0.0	4.5	9.1	22.7	40.9	50.0	45.4	31.8	27.3	31.8	22.7
87.5°	0.0	0.0	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1	9.1
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°	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0	2862.0
2.5°	2898.4	2880.2	2816.6	2748.5	2689.4	2716.7	2689.4	2666.7	2675.8	2666.7	2657.6
5°	3057.4	2975.6	2839.3	2780.3	2730.3	2725.7	2712.1	2707.6	2712.1	2712.1	2671.2
7.5°	3207.3	3075.5	2930.2	2866.6	2807.5	2812.1	2780.3	2780.3	2775.7	2753.0	2743.9
10°	3434.4	3257.3	3071.0	2957.4	2884.7	2871.1	2839.3	2807.5	2807.5	2807.5	2762.1
12.5°	3684.3	3461.7	3207.3	3075.5	2989.2	2921.1	2871.1	2862.0	2812.1	2803.0	2780.3
15°	3902.4	3620.7	3298.1	3116.4	3007.4	2916.5	2839.3	2789.3	2766.6	2753.0	2734.8
17.5°	4115.9	3757.0	3348.1	3116.4	2998.3	2893.8	2812.1	2766.6	2712.1	2721.2	2684.9
20°	4402.1	3902.4	3361.7	3057.4	2912.0	2812.1	2703.0	2680.3	2648.5	2621.3	2630.3
22.5°	4679.2	4006.8	3320.9	2984.7	2775.7	2657.6	2603.1	2575.8	2562.2	2539.5	2507.7
25°	4929.0	4120.4	3257.3	2852.9	2630.3	2544.0	2494.1	2489.5	2457.7	2457.7	2398.7
27.5°	5183.4	4161.3	3148.2	2698.5	2503.1	2453.2	2430.5	2421.4	2407.7	2375.9	2335.1
30°	5474.2	4174.9	2989.2	2539.5	2389.6	2335.1	2366.9	2389.6	2330.5	2271.5	2289.6
32.5°	5715.0	4143.1	2798.4	2389.6	2307.8	2280.5	2344.1	2366.9	2298.7	2235.1	2203.3
35°	6005.7	4065.9	2612.2	2271.5	2226.0	2280.5	2335.1	2335.1	2198.8	2121.5	2103.4
37.5°	6446.4	3979.6	2439.5	2171.5	2139.7	2253.3	2326.0	2276.0	2062.5	1967.1	1944.4
40°	6918.8	3925.1	2271.5	2071.6	2094.3	2207.8	2248.7	2094.3	1876.2	1817.2	1799.0
42.5°	7604.8	3816.0	2121.5	1985.2	2053.4	2144.2	2144.2	1867.1	1785.4	1753.6	1749.0
45°	8458.9	3738.8	1989.8	1912.6	1994.3	2017.0	1944.4	1749.0	1690.0	1680.9	1685.4
47.5°	8876.8	3588.9	1853.5	1826.2	1885.3	1889.8	1699.0	1653.6	1603.6	1590.0	1580.9
50°	8813.2	3320.9	1676.3	1712.7	1794.4	1749.0	1549.1	1558.2	1512.8	1508.2	1485.5
52.5°	8368.0	2898.4	1499.2	1585.5	1676.3	1544.6	1426.5	1417.4	1417.4	1358.3	1335.6
55°	7418.6	2335.1	1285.6	1394.7	1503.7	1299.3	1267.5	1258.4	1235.7	1181.2	1167.5
57.5°	5874.0	1712.7	967.6	1085.8	1276.6	1103.9	1099.4	1058.5	999.4	958.6	958.6
60°	3493.5	985.8	608.7	663.3	845.0	895.0	994.9	976.7	876.8	813.2	795.0
62.5°	1594.6	508.8	386.1	395.2	454.3	581.5	781.4	904.0	763.2	654.2	645.1
65°	536.1	377.1	318.0	304.4	313.5	349.8	467.9	640.5	608.7	504.3	486.1
67.5°	327.1	336.2	299.8	277.1	277.1	272.6	268.0	290.7	358.9	349.8	354.3
70°	281.7	308.9	277.1	249.9	240.8	227.1	190.8	159.0	136.3	159.0	168.1
72.5°	227.1	245.3	236.2	213.5	190.8	172.6	136.3	104.5	77.2	68.1	68.1
75°	168.1	181.7	190.8	163.5	145.4	122.7	99.9	68.1	40.9	27.3	27.3
77.5°	122.7	136.3	140.8	127.2	109.0	86.3	63.6	45.4	22.7	9.1	9.1
80°	104.5	122.7	136.3	127.2	113.6	81.8	59.1	31.8	18.2	4.5	4.5
82.5°	99.9	122.7	136.3	122.7	109.0	77.2	59.1	36.3	13.6	4.5	4.5
85°	22.7	31.8	40.9	50.0	59.1	59.1	45.4	27.3	13.6	4.5	4.5
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	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)