

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: P650925

Luminaire Tested: **GALN-SA5C-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29778.1 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

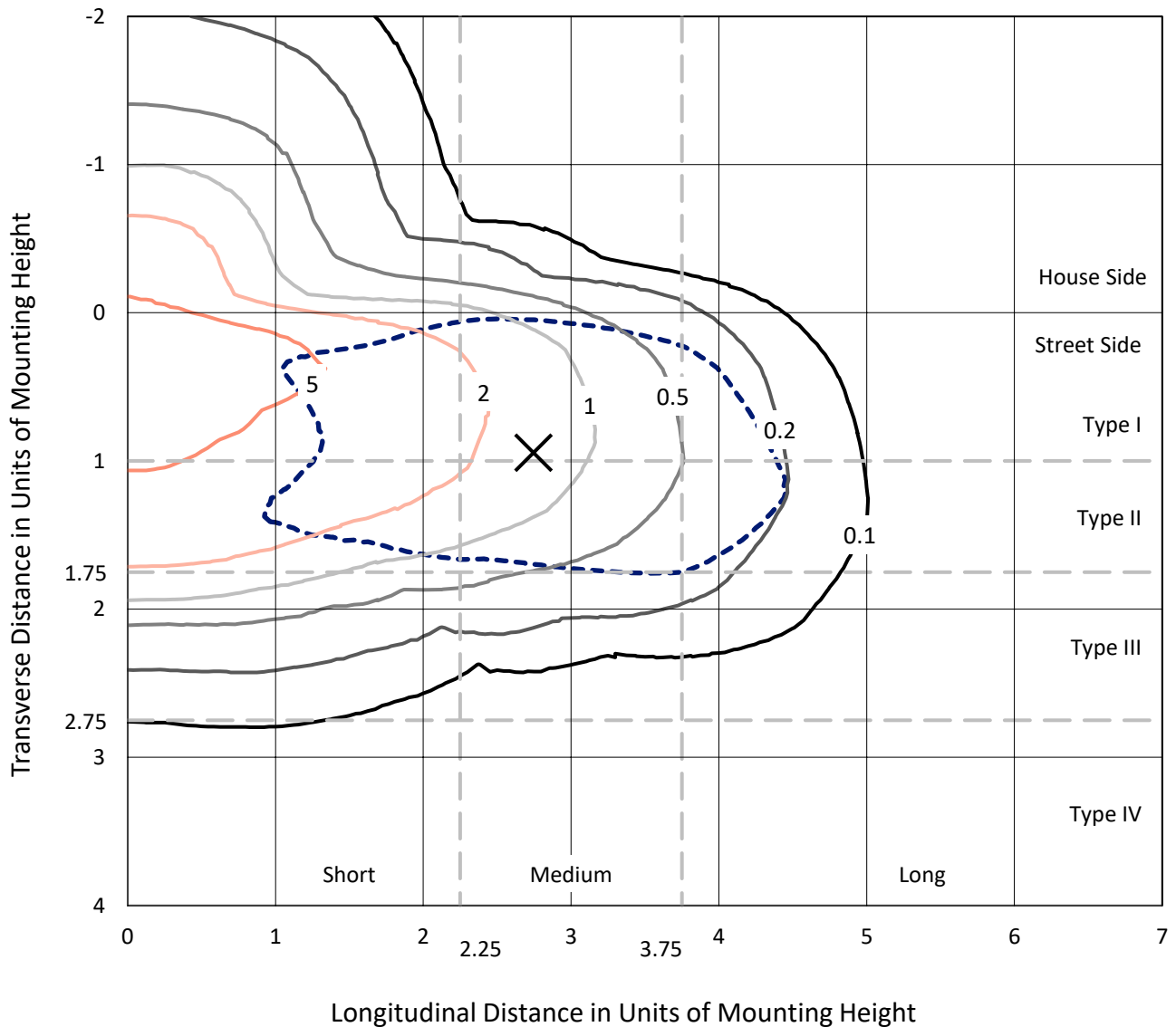
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

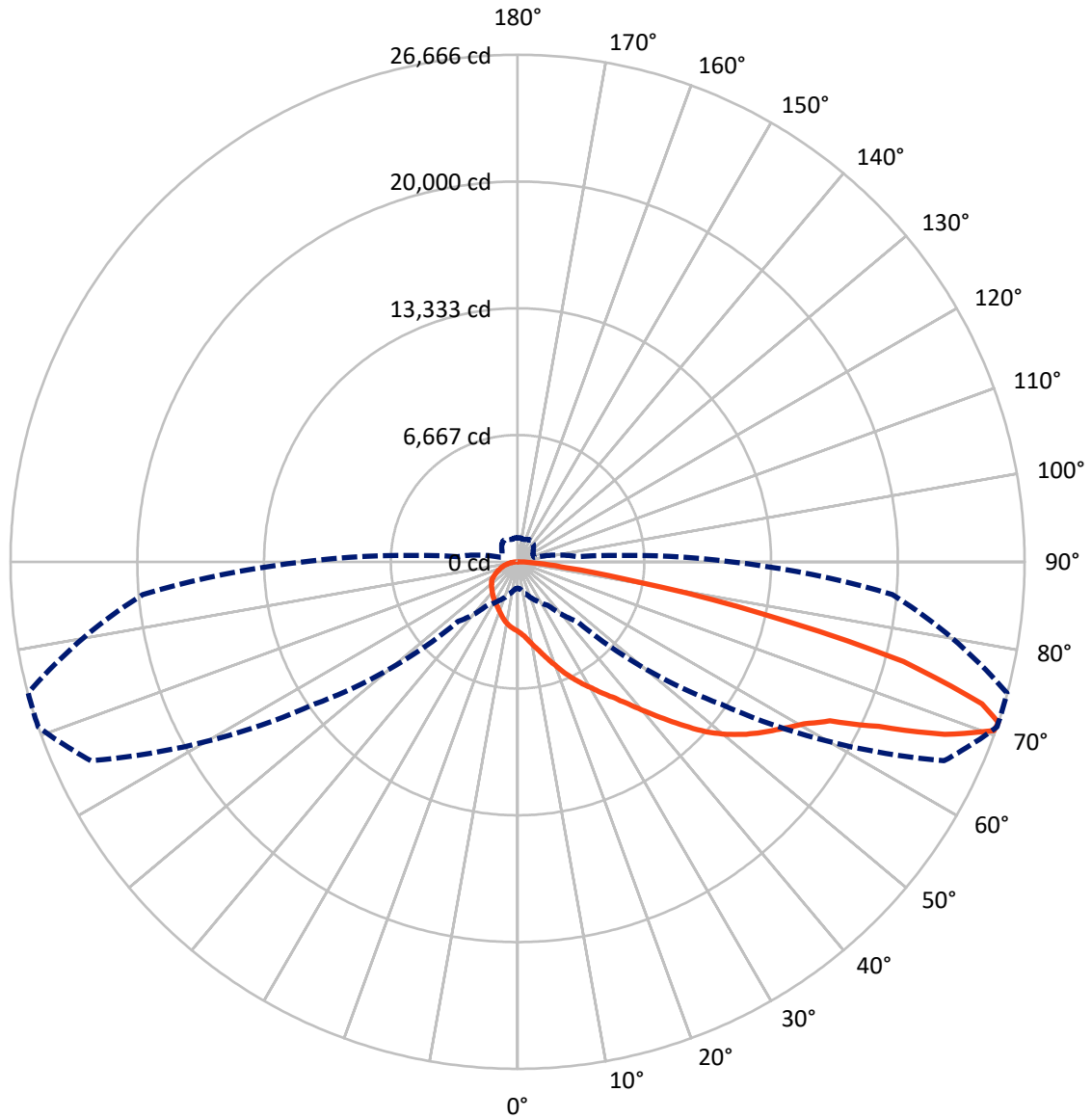
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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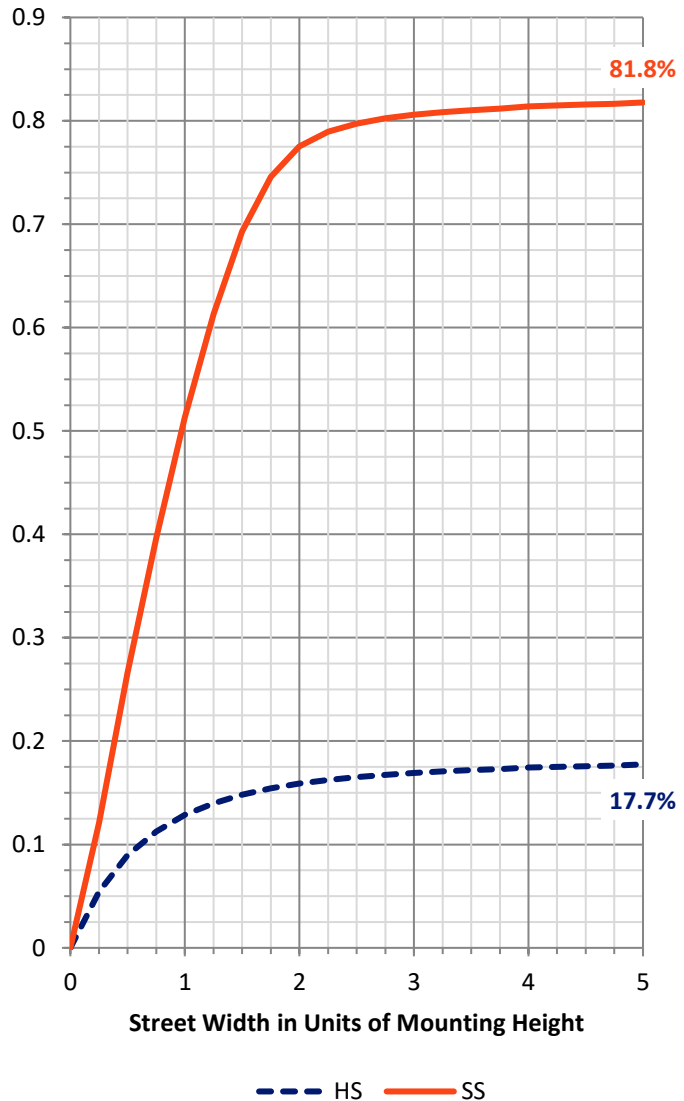
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5355.5	0.0	5355.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	24422.6	0.0	24422.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	29778.1	0.0	29778.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.0	1.2
10°-20°	1192.2	4.0
20°-30°	2083.5	7.0
30°-40°	3098.9	10.4
40°-50°	4565.8	15.3
50°-60°	6392.2	21.5
60°-70°	7149.5	24.0
70°-80°	4367.2	14.7
80°-90°	561.8	1.9
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°	29778.1	100.0
0°-180°	29778.1	100.0

Coefficient of Utilization

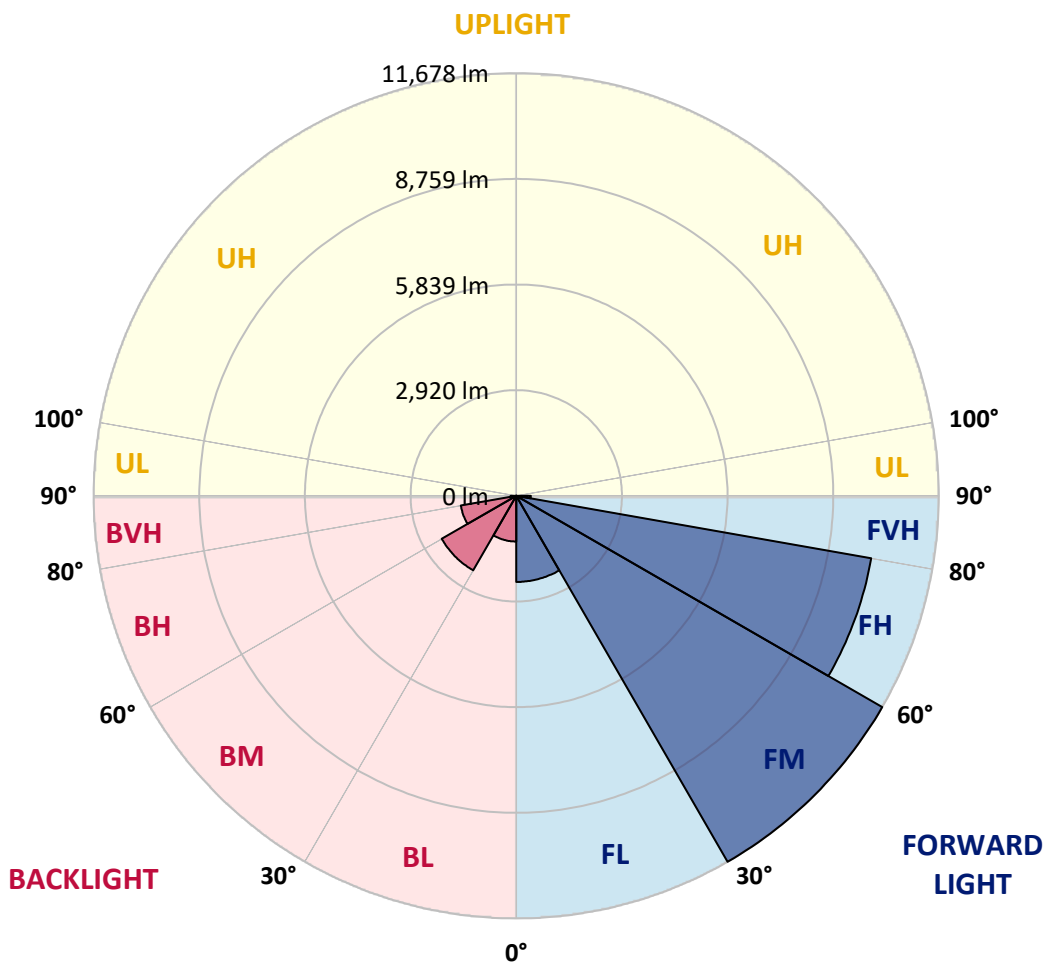


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.3	8.0			
FM (30°-60°)	11678.4	39.2			
FH (60°-80°)	9960.7	33.4			G4/12000
FVH (80°-90°)	404.2	1.4			G3/500
BL (0°-30°)	1263.4	4.2	B3/2500		
BM (30°-60°)	2378.6	8.0	B2/2500		
BH (60°-80°)	1556.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	157.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6
2.5°	4057.3	4037.6	4039.3	4011.5	3975.5	3936.2	3880.5	3831.4	3792.2	3769.3	3702.2
5°	4495.9	4476.3	4451.7	4391.2	4365.0	4268.4	4145.7	4034.4	3949.3	3901.8	3767.6
7.5°	4851.1	4846.2	4839.6	4805.2	4738.1	4604.0	4499.2	4306.1	4180.0	4090.0	3860.9
10°	5070.4	5078.5	5083.5	5090.1	5062.2	4991.8	4847.8	4604.0	4443.6	4329.0	3982.1
12.5°	5181.7	5189.9	5217.7	5278.3	5315.9	5307.7	5189.9	4950.9	4730.0	4579.4	4111.3
15°	5250.4	5263.5	5312.6	5392.8	5518.8	5599.0	5541.8	5320.8	5078.5	4900.2	4265.1
17.5°	5325.7	5340.4	5394.4	5509.1	5674.3	5847.8	5910.0	5720.1	5456.7	5243.9	4437.0
20°	5368.3	5387.9	5464.8	5615.4	5808.5	6060.6	6266.8	6167.0	5878.9	5643.2	4635.0
22.5°	5437.0	5453.4	5518.8	5679.3	5910.0	6225.9	6623.6	6602.4	6348.6	6044.2	4852.7
25°	5623.6	5649.8	5682.5	5779.1	6001.6	6394.5	6919.8	7067.1	6803.6	6463.2	5052.4
27.5°	5975.5	5996.8	5995.2	6008.2	6134.3	6540.1	7176.8	7527.0	7255.3	6887.1	5245.5
30°	6376.5	6384.6	6391.2	6361.7	6389.6	6689.1	7412.5	7982.0	7710.4	7322.4	5414.1
32.5°	6864.2	6880.6	6824.9	6749.6	6726.7	6910.0	7607.3	8437.0	8248.8	7764.4	5581.0
35°	7440.3	7482.9	7369.9	7237.3	7144.0	7227.6	7869.1	8901.8	8800.4	8329.0	5802.0
37.5°	8098.2	8150.6	8045.8	7785.6	7653.0	7676.0	8211.2	9476.3	9497.6	8972.2	6131.0
40°	8636.7	8705.4	8708.7	8340.4	8139.1	8165.4	8644.9	10094.9	10338.8	9767.6	6518.8
42.5°	8991.9	9058.9	9129.3	8913.3	8702.2	8851.1	9150.6	10766.0	11284.8	10733.3	7060.6
45°	9381.4	9441.9	9481.2	9383.0	9265.2	9651.4	9761.1	11479.6	12293.0	11811.8	7653.0
47.5°	9833.1	9900.2	9937.8	9844.6	9800.3	10353.6	10419.1	12145.7	13370.0	12859.3	8307.7
50°	10435.4	10486.1	10466.5	10407.5	10397.8	10892.0	11050.7	12769.2	14258.7	13986.9	8986.9
52.5°	11185.0	11245.5	11266.8	11183.4	11145.7	11276.6	11559.8	13337.2	15067.2	14955.8	9712.0
55°	11638.3	11734.9	12058.9	12189.9	12279.9	11774.2	12108.0	13964.0	15792.2	15977.1	10491.1
57.5°	11057.3	11181.7	11906.8	12561.4	13407.6	13018.1	12885.5	14618.7	16517.2	16967.3	11424.0
60°	9640.0	9667.8	10602.3	11808.6	13510.7	14617.1	14507.4	15659.7	17302.8	17965.7	12653.1
62.5°	6687.5	6746.3	7851.1	9775.8	12237.4	15193.2	17266.8	17456.7	18428.8	19460.0	14455.0
65°	3448.4	3371.6	4378.1	6144.0	9225.9	13824.9	19502.5	20761.1	20870.8	21797.1	16991.9
67.5°	2122.8	2157.2	2628.5	3587.5	5455.0	10047.5	19268.5	24798.8	24221.1	24666.2	19347.0
70°	1594.1	1636.7	1960.7	2455.0	3325.7	5744.7	15495.9	25777.5	26584.3	26469.8	20063.9
71°	1386.2	1430.5	1767.6	2234.0	2793.8	4433.8	13055.7	24753.0	26666.3	26646.6	19793.9
72.5°	1181.7	1209.5	1473.0	1892.0	2355.1	3108.0	9808.6	22199.8	25528.7	26181.8	18829.8
75°	928.0	949.2	1067.1	1443.6	1854.3	1908.3	5263.5	16643.3	20967.3	22211.2	15676.0
77.5°	756.1	770.9	831.4	1072.0	1430.5	1351.9	2761.1	10833.1	13135.9	14387.9	9234.1
80°	600.6	617.0	653.0	726.7	1072.0	964.0	1317.5	5489.4	6345.3	6332.2	3685.8
82.5°	466.4	471.4	513.9	533.5	733.3	684.2	713.6	2324.1	2574.5	2659.6	1330.6
85°	294.6	309.3	455.0	409.1	438.7	401.0	351.9	923.1	1137.5	1121.1	531.9
87.5°	90.0	94.9	153.8	173.5	194.8	175.1	129.3	271.7	332.3	360.0	132.5
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°	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6	3654.6
2.5°	3675.9	3657.9	3594.1	3541.8	3492.7	3438.6	3392.8	3379.7	3368.3	3363.3	3361.7
5°	3710.3	3656.3	3530.3	3427.2	3345.3	3270.1	3222.6	3201.4	3180.1	3180.1	3186.5
7.5°	3759.4	3661.2	3466.4	3312.6	3209.5	3139.1	3104.7	3101.5	3106.4	3111.3	3113.0
10°	3813.4	3657.9	3373.2	3181.7	3090.0	3057.3	3059.0	3086.7	3113.0	3132.6	3135.8
12.5°	3865.8	3638.3	3263.5	3059.0	3000.0	3006.6	3052.4	3114.6	3165.4	3193.1	3194.8
15°	3924.7	3607.2	3131.0	2942.7	2923.1	2973.9	3059.0	3153.8	3230.8	3276.6	3281.5
17.5°	3973.8	3554.8	2991.9	2829.8	2854.4	2947.6	3065.4	3188.2	3281.5	3338.8	3348.6
20°	4029.5	3487.7	2847.8	2721.8	2792.1	2918.2	3052.4	3185.0	3281.5	3337.2	3350.3
22.5°	4073.6	3392.8	2710.3	2633.4	2736.5	2882.2	3008.2	3114.6	3193.1	3222.6	3242.2
25°	4091.6	3273.3	2581.0	2561.3	2692.3	2823.2	2908.3	2968.9	2993.5	2990.2	2998.3
27.5°	4081.9	3135.8	2469.8	2504.1	2636.7	2731.6	2774.1	2769.2	2725.1	2684.1	2703.8
30°	4040.9	2972.2	2376.4	2445.2	2564.6	2617.0	2610.5	2546.6	2463.2	2386.3	2391.1
32.5°	3967.2	2795.4	2289.7	2378.1	2463.2	2486.1	2441.9	2358.4	2239.0	2139.1	2124.4
35°	3905.1	2626.9	2212.8	2301.1	2361.7	2350.3	2307.7	2199.7	2091.7	2003.3	1988.5
37.5°	3895.3	2482.8	2139.1	2214.4	2248.7	2232.4	2180.0	2088.4	2049.1	1982.0	1973.8
40°	3947.7	2381.4	2063.8	2122.8	2139.1	2126.0	2068.8	2016.4	2052.4	2036.0	2036.0
42.5°	4090.0	2327.3	1996.7	2031.1	2044.2	2054.1	2013.1	1968.9	2013.1	1937.8	1913.3
45°	4315.9	2329.0	1936.2	1941.1	1980.4	2014.7	1986.9	1921.4	1898.6	1747.9	1718.5
47.5°	4648.1	2384.7	1887.0	1856.0	1926.4	1983.7	1944.4	1849.4	1747.9	1648.1	1630.1
50°	5036.0	2484.5	1842.9	1767.6	1854.3	1944.4	1914.9	1803.6	1698.8	1638.3	1626.8
52.5°	5466.5	2610.5	1788.9	1669.4	1765.9	1926.4	1921.4	1797.0	1653.1	1612.1	1602.3
55°	5998.3	2734.8	1721.8	1554.8	1687.4	1911.6	1903.4	1743.1	1643.2	1613.8	1610.5
57.5°	6617.1	2914.9	1625.2	1438.6	1597.4	1851.0	1833.0	1710.3	1610.5	1589.2	1587.6
60°	7613.7	3194.8	1487.7	1332.2	1505.7	1744.7	1767.6	1654.7	1558.1	1553.2	1551.6
62.5°	8924.8	3587.5	1345.3	1222.6	1399.3	1607.2	1672.7	1579.4	1502.4	1527.0	1530.3
65°	10734.9	3918.2	1198.0	1129.3	1281.5	1474.6	1582.7	1509.0	1440.3	1487.7	1487.7
67.5°	11915.0	3924.7	1063.9	1032.7	1162.0	1363.3	1487.7	1425.6	1360.1	1440.3	1443.6
70°	11669.5	3438.6	952.5	931.2	1045.9	1243.8	1383.0	1333.9	1258.6	1330.6	1304.4
71°	11273.4	3168.6	908.4	892.0	1000.0	1186.6	1333.9	1293.0	1217.7	1265.1	1250.4
72.5°	10641.6	2751.2	836.4	839.6	931.2	1114.6	1265.1	1222.6	1147.3	1173.5	1168.6
75°	8995.1	2402.7	715.2	730.0	800.3	991.8	1127.7	1094.9	1018.0	1018.0	1013.1
77.5°	5623.6	1679.2	594.1	602.3	679.2	849.4	968.9	941.1	867.4	842.9	836.4
80°	2098.2	867.4	464.8	474.7	522.1	669.4	802.0	775.7	700.5	672.6	646.5
82.5°	793.8	435.4	342.0	333.9	384.6	510.7	628.5	597.4	538.5	471.4	451.7
85°	299.5	216.1	209.5	202.9	225.9	302.8	389.6	383.0	320.8	273.3	268.4
87.5°	78.5	70.4	81.8	60.6	63.8	57.3	59.0	24.6	11.4	4.9	3.3
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)