

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: P529826

Luminaire Tested: **GALN-SA5A-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17495 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

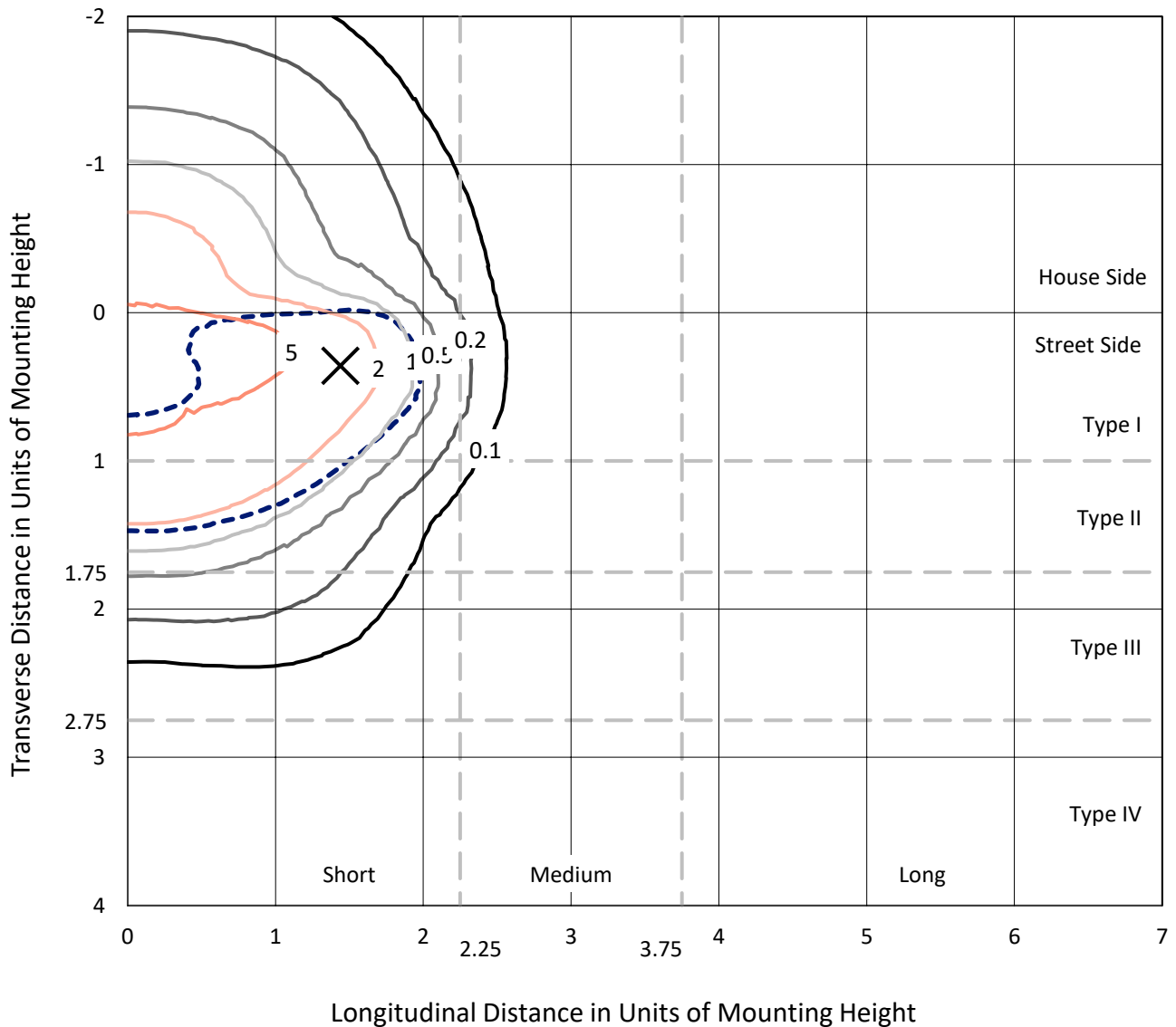
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

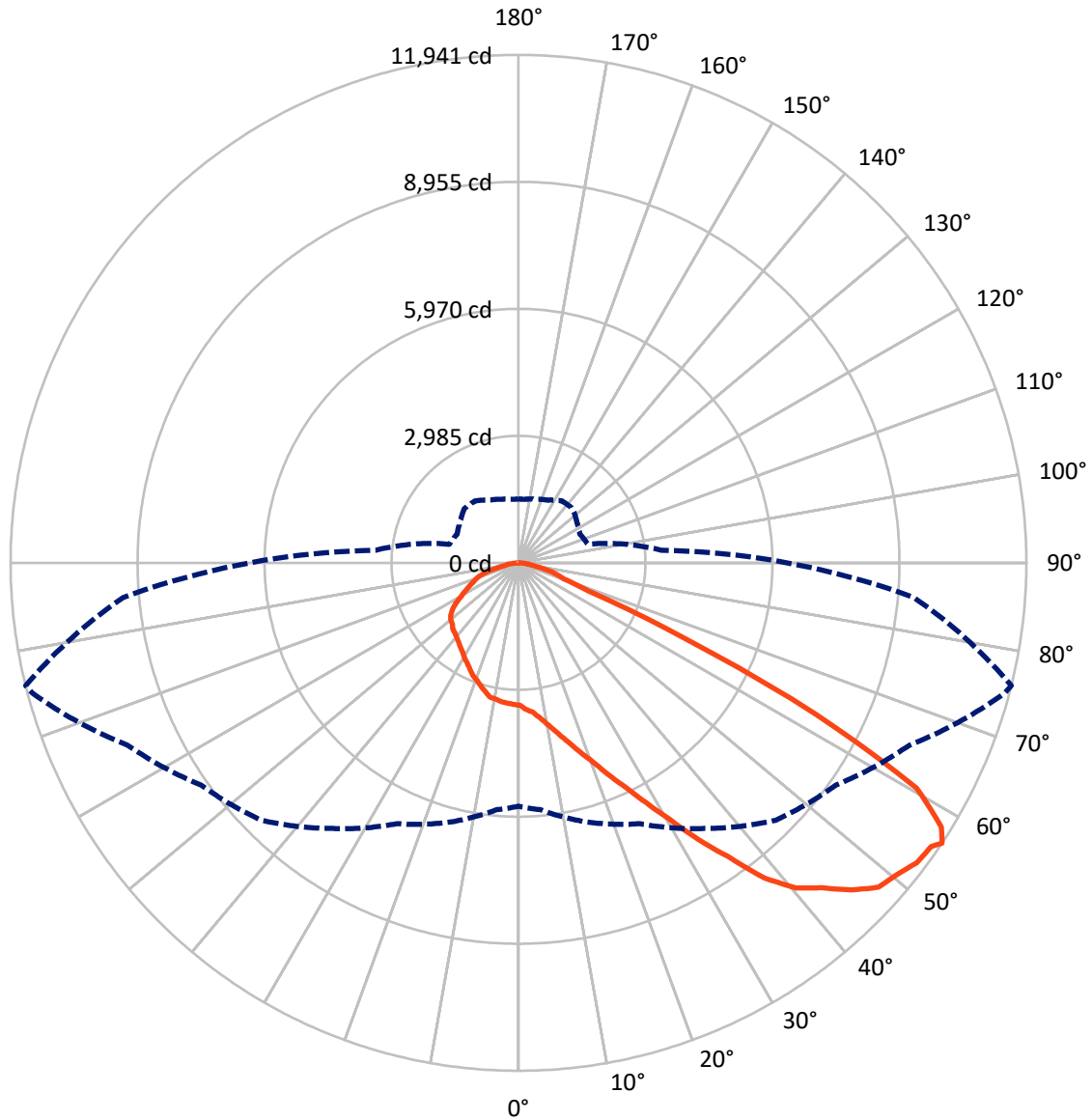
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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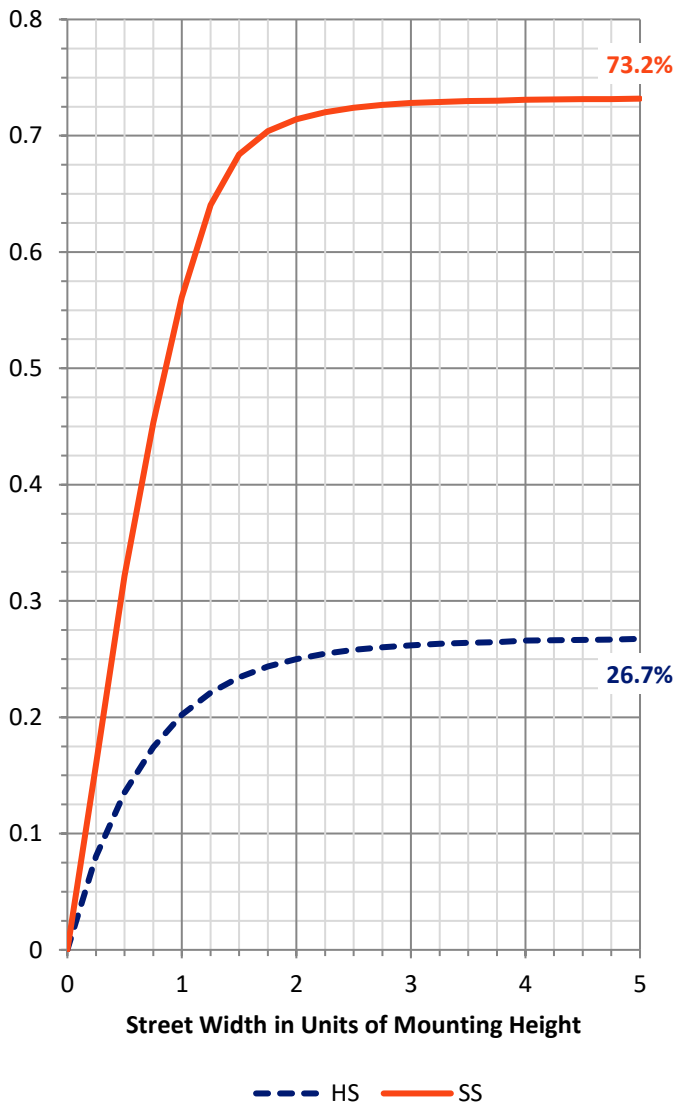
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4703.9	0.0	4703.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12791.1	0.0	12791.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	17495.0	0.0	17495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	1.9
10°-20°	1042.8	6.0
20°-30°	1823.7	10.4
30°-40°	2855.4	16.3
40°-50°	4153.9	23.7
50°-60°	4565.4	26.1
60°-70°	2037.8	11.6
70°-80°	588.6	3.4
80°-90°	95.5	0.5
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°	17495.0	100.0
0°-180°	17495.0	100.0

Coefficient of Utilization

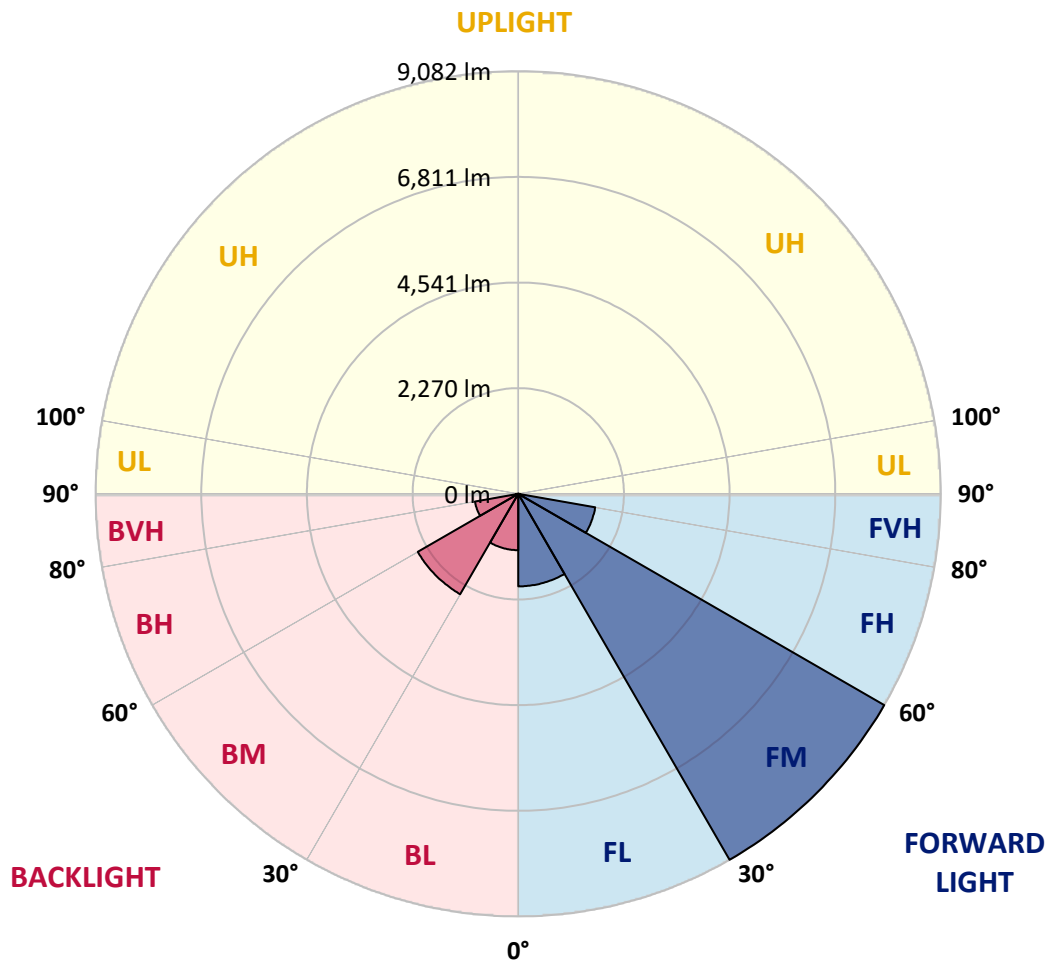


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1988.1	11.4			
FM (30°-60°)	9082.0	51.9			
FH (60°-80°)	1679.9	9.6			G1/1800
FVH (80°-90°)	41.1	0.2			G1/100
BL (0°-30°)	1210.4	6.9	B3/2500		
BM (30°-60°)	2492.7	14.2	B2/2500		
BH (60°-80°)	946.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	54.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4
2.5°	3687.6	3628.7	3624.1	3608.3	3617.3	3576.5	3533.4	3476.7	3417.7	3454.0	3367.9
5°	3946.2	3866.8	3898.5	3844.1	3850.9	3796.5	3708.0	3642.3	3569.7	3526.6	3465.4
7.5°	4036.9	4043.7	4066.4	4057.3	4011.9	4011.9	3953.0	3837.3	3710.3	3685.4	3583.3
10°	4159.4	4161.6	4136.7	4143.5	4207.0	4177.5	4125.3	4075.4	3912.2	3882.7	3701.2
12.5°	4202.4	4161.6	4202.4	4238.7	4313.6	4354.4	4343.1	4306.8	4132.1	4111.7	3846.4
15°	4209.3	4184.3	4218.3	4300.0	4365.7	4538.1	4624.3	4599.3	4368.0	4370.3	4009.7
17.5°	4177.5	4211.5	4225.1	4295.4	4447.4	4608.4	4857.9	4891.9	4701.4	4671.9	4216.1
20°	4220.6	4195.6	4213.8	4277.3	4479.1	4730.9	5057.5	5282.0	5014.4	4994.0	4429.2
22.5°	4386.1	4352.1	4347.6	4388.4	4533.6	4794.4	5268.4	5672.1	5395.4	5406.7	4694.6
25°	4515.4	4533.6	4517.7	4515.4	4606.1	4889.6	5547.3	6137.0	5912.5	5846.7	5007.6
27.5°	4737.7	4780.8	4749.0	4792.1	4771.7	5032.5	5746.9	6651.8	6470.4	6381.9	5291.0
30°	5046.1	5068.8	5039.3	5039.3	4978.1	5232.1	5928.3	7189.3	7114.5	6994.3	5624.4
32.5°	5452.1	5486.1	5427.1	5393.1	5384.0	5529.2	6254.9	7720.0	7847.0	7744.9	6066.7
35°	5989.6	5969.2	5898.8	5867.1	5744.6	5985.0	6740.2	8330.1	8663.4	8482.0	6601.9
37.5°	6463.6	6431.8	6427.3	6250.4	6279.9	6477.2	7153.0	8792.7	9454.9	9402.8	7166.6
40°	6905.8	6935.3	6982.9	6883.1	6837.8	7055.5	7633.8	9146.5	10069.5	10049.1	7602.1
42.5°	7379.8	7352.6	7436.5	7352.6	7284.5	7593.0	8155.4	9391.4	10609.3	10441.5	8057.9
45°	8067.0	7980.8	8010.3	8017.1	7967.2	8080.6	8370.9	9568.3	10988.1	10969.9	8391.3
47.5°	8640.8	8643.0	8593.1	8554.6	8402.6	8516.0	8611.3	9679.5	11423.5	11394.0	8520.6
50°	8853.9	8824.5	8969.6	9053.5	9062.6	8831.3	8799.5	9740.7	11652.6	11523.3	8649.8
52.5°	8087.4	8114.6	8343.7	8842.6	9130.6	9155.6	9019.5	9867.7	11745.5	11718.3	8754.2
55°	6508.9	6640.5	7016.9	7593.0	8275.6	9026.3	9257.6	9999.2	11795.4	11772.8	9216.8
56°	5722.0	5824.0	6313.9	6765.2	7622.5	8556.8	9107.9	10139.9	11834.0	11940.6	9325.7
57.5°	4606.1	4724.1	5075.6	5588.1	6599.6	7663.3	8695.2	9967.5	11684.3	11725.1	9405.0
60°	2880.3	2891.6	3313.4	3651.3	4363.5	5402.2	6635.9	8672.5	10813.4	10754.5	8448.0
62.5°	1889.2	1891.4	2274.7	2551.4	2875.7	3113.8	3905.4	5751.4	7978.5	7874.2	6014.5
65°	1326.7	1356.2	1653.3	2023.0	2154.5	2029.8	2004.8	3032.2	4456.5	4306.8	3231.8
67.5°	970.7	972.9	1236.0	1632.9	1823.4	1544.5	1254.2	1480.9	1764.4	1759.9	1496.8
70°	641.8	669.0	870.9	1220.1	1437.9	1240.5	1025.1	1059.1	1122.6	1122.6	1113.5
72.5°	374.2	399.2	533.0	773.4	807.4	775.6	811.9	907.2	948.0	945.7	934.4
75°	213.2	224.5	254.0	322.0	401.4	474.0	596.5	687.2	728.0	752.9	723.5
77.5°	124.7	131.5	149.7	183.7	208.6	256.3	324.3	387.8	442.2	435.4	440.0
80°	65.8	65.8	83.9	108.9	145.1	181.4	215.5	251.7	281.2	288.0	294.8
82.5°	38.6	40.8	54.4	79.4	104.3	129.3	165.6	190.5	217.7	220.0	224.5
85°	20.4	22.7	34.0	52.2	70.3	79.4	81.6	77.1	83.9	79.4	90.7
87.5°	6.8	6.8	11.3	9.1	9.1	11.3	13.6	13.6	18.1	18.1	18.1
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°	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4	3347.4
2.5°	3365.6	3365.6	3327.0	3254.5	3243.1	3213.6	3186.4	3184.2	3163.7	3145.6	3136.5
5°	3429.1	3358.8	3302.1	3236.3	3159.2	3122.9	3082.1	3036.7	3018.6	3036.7	3034.5
7.5°	3501.7	3442.7	3272.6	3150.1	3061.7	3025.4	2980.0	2932.4	2937.0	2937.0	2905.2
10°	3572.0	3492.6	3220.4	3064.0	2934.7	2907.5	2882.5	2900.7	2923.3	2927.9	2907.5
12.5°	3689.9	3510.7	3195.5	2977.8	2896.1	2837.2	2853.0	2902.9	2950.6	2937.0	2952.8
15°	3778.3	3526.6	3082.1	2889.3	2787.3	2814.5	2871.2	2905.2	2984.6	2975.5	2991.4
17.5°	3864.5	3535.7	2971.0	2771.4	2728.3	2803.1	2846.2	2943.8	2968.7	3023.1	3043.5
20°	4041.4	3553.8	2857.6	2698.8	2685.2	2771.4	2846.2	2891.6	2946.0	2993.6	2993.6
22.5°	4132.1	3544.8	2782.7	2603.6	2646.7	2701.1	2769.1	2846.2	2846.2	2891.6	2893.9
25°	4245.5	3508.5	2664.8	2558.2	2590.0	2642.1	2719.2	2692.0	2721.5	2721.5	2757.8
27.5°	4374.8	3431.4	2562.7	2476.6	2540.1	2596.8	2608.1	2590.0	2555.9	2551.4	2537.8
30°	4479.1	3336.1	2487.9	2449.3	2501.5	2533.3	2497.0	2458.4	2399.5	2394.9	2363.2
32.5°	4622.0	3218.2	2394.9	2381.3	2440.3	2442.5	2431.2	2372.2	2286.1	2249.8	2213.5
35°	4862.4	3150.1	2324.6	2345.0	2363.2	2356.4	2336.0	2272.5	2186.3	2170.4	2156.8
37.5°	5039.3	3100.2	2252.0	2277.0	2292.9	2301.9	2240.7	2170.4	2172.7	2140.9	2131.8
40°	5238.9	3068.5	2193.1	2204.4	2206.7	2236.2	2161.3	2127.3	2143.2	2122.8	2136.4
42.5°	5495.2	3077.6	2131.8	2122.8	2165.9	2154.5	2118.2	2072.9	2081.9	2020.7	2029.8
45°	5631.2	3138.8	2095.6	2054.7	2102.4	2100.1	2052.5	2009.4	1954.9	1837.0	1841.5
47.5°	5722.0	3154.7	2009.4	1982.2	2032.1	2061.5	2007.1	1907.3	1830.2	1746.3	1725.9
50°	5814.9	3184.2	1968.6	1911.9	1932.3	2002.6	1934.5	1839.3	1764.4	1689.6	1700.9
52.5°	5896.6	3240.9	1889.2	1805.3	1841.5	1918.7	1882.4	1766.7	1685.1	1623.8	1605.7
55°	6259.4	3367.9	1755.4	1646.5	1732.7	1830.2	1809.8	1669.2	1580.7	1549.0	1544.5
56°	6316.1	3372.4	1685.1	1592.1	1671.5	1800.7	1775.8	1626.1	1546.7	1496.8	1499.1
57.5°	6325.2	3318.0	1585.3	1542.2	1610.2	1757.6	1725.9	1592.1	1483.2	1437.9	1424.3
60°	5565.5	2590.0	1460.5	1433.3	1512.7	1626.1	1614.8	1499.1	1376.6	1324.5	1349.4
62.5°	3794.2	1898.2	1363.0	1358.5	1399.3	1510.4	1480.9	1376.6	1274.6	1240.5	1224.7
65°	2208.9	1440.1	1267.8	1249.6	1283.6	1342.6	1363.0	1254.2	1147.6	1124.9	1118.1
67.5°	1304.1	1190.7	1145.3	1115.8	1104.5	1140.8	1156.6	1093.1	986.5	954.8	982.0
70°	1090.9	1059.1	1061.4	1011.5	984.3	959.3	945.7	889.0	800.6	759.8	748.4
72.5°	941.2	927.6	918.5	873.1	848.2	791.5	732.5	675.8	610.1	576.1	578.3
75°	718.9	714.4	718.9	696.3	653.2	607.8	553.4	480.8	430.9	387.8	396.9
77.5°	428.6	442.2	449.0	440.0	421.8	381.0	347.0	299.4	251.7	217.7	213.2
80°	294.8	306.2	317.5	306.2	288.0	258.5	222.3	186.0	152.0	133.8	129.3
82.5°	224.5	235.9	242.7	231.3	208.6	176.9	152.0	127.0	99.8	81.6	77.1
85°	81.6	93.0	90.7	108.9	117.9	113.4	97.5	74.8	56.7	40.8	38.6
87.5°	22.7	20.4	22.7	22.7	22.7	20.4	18.1	18.1	18.1	11.3	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

(END OF REPORT)