

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: P532792

Luminaire Tested: **GALN-SA8A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25786 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 244
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

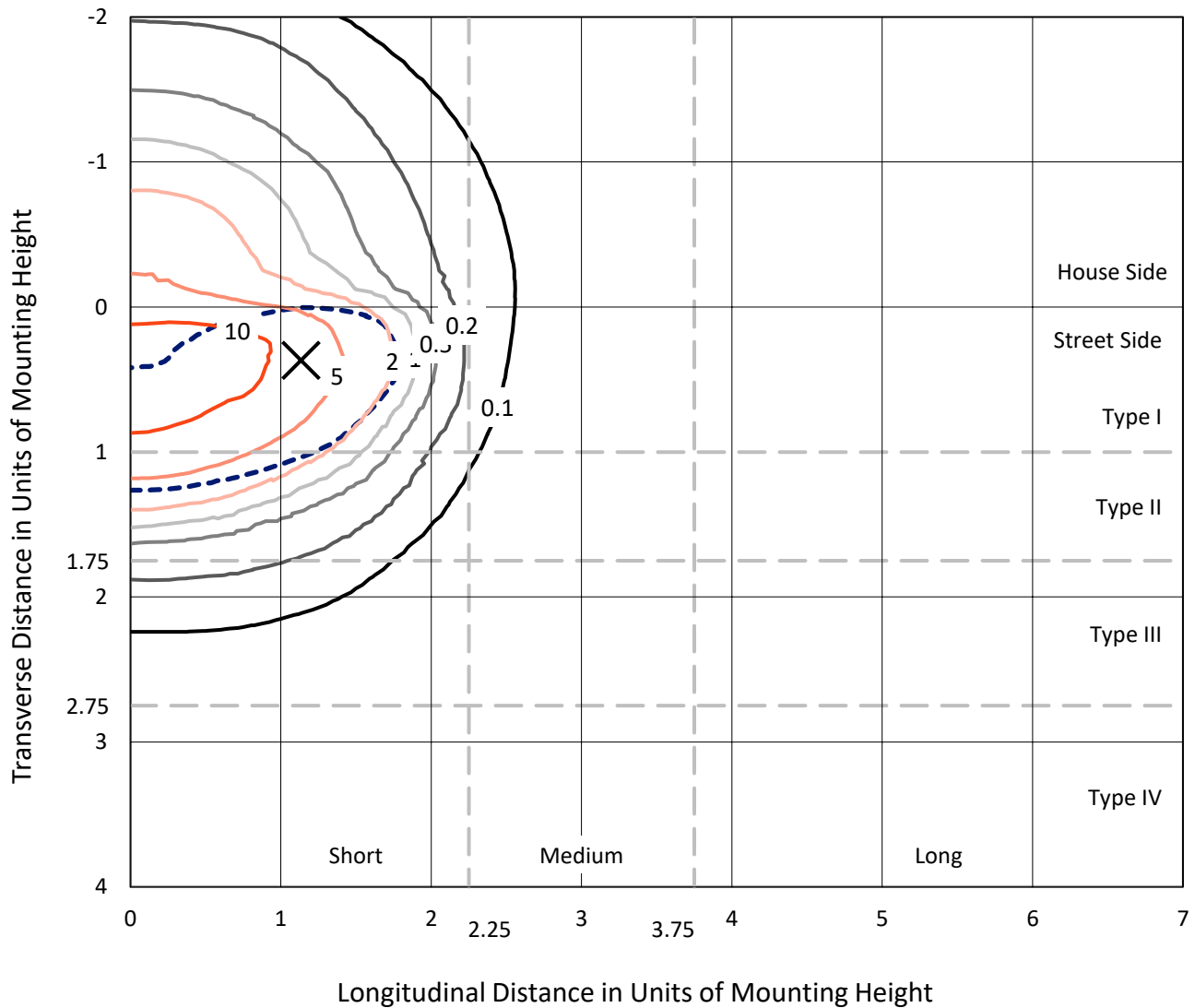


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

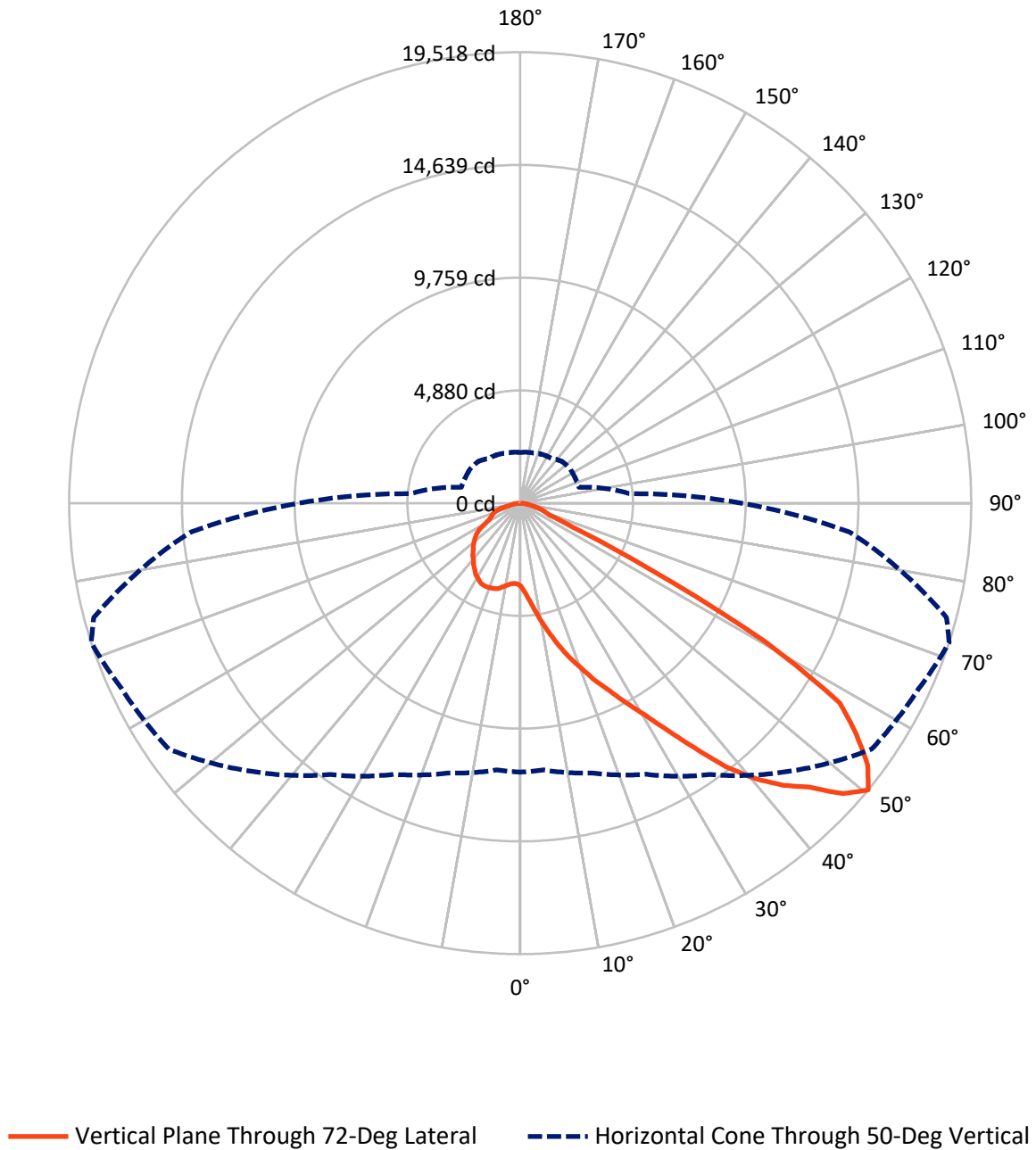


Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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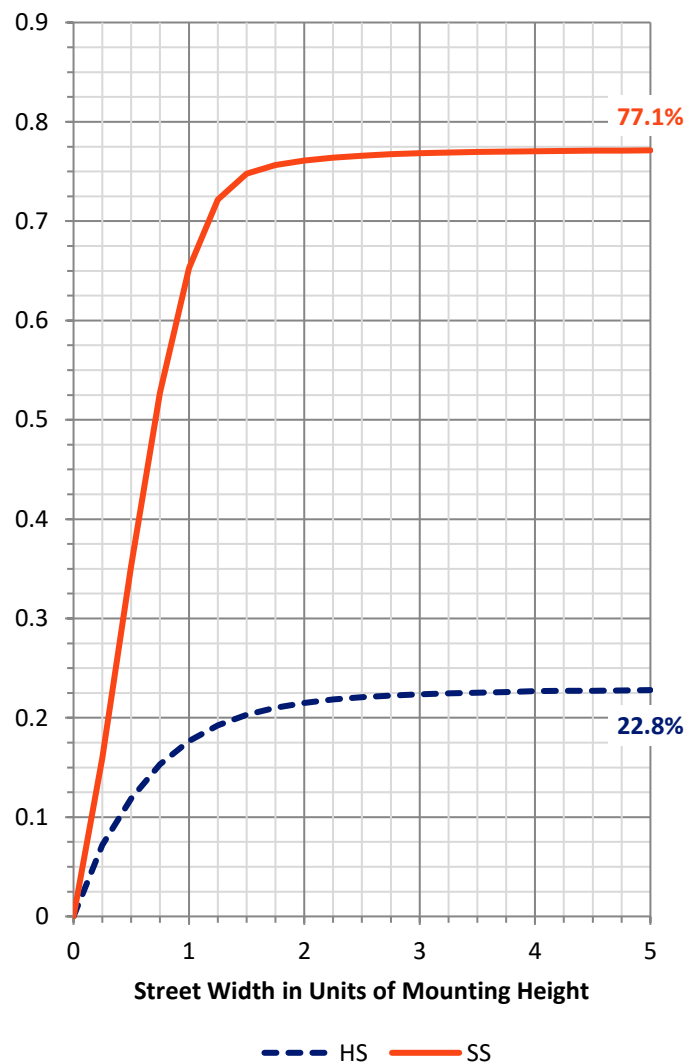
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5907.7	0.0	5907.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19878.3	0.0	19878.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	25786.0	0.0	25786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.2	1.6
10°-20°	1578.4	6.1
20°-30°	3060.5	11.9
30°-40°	5070.2	19.7
40°-50°	7094.3	27.5
50°-60°	5984.9	23.2
60°-70°	1824.2	7.1
70°-80°	640.0	2.5
80°-90°	111.3	0.4
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°	25786.0	100.0
0°-180°	25786.0	100.0

Coefficient of Utilization



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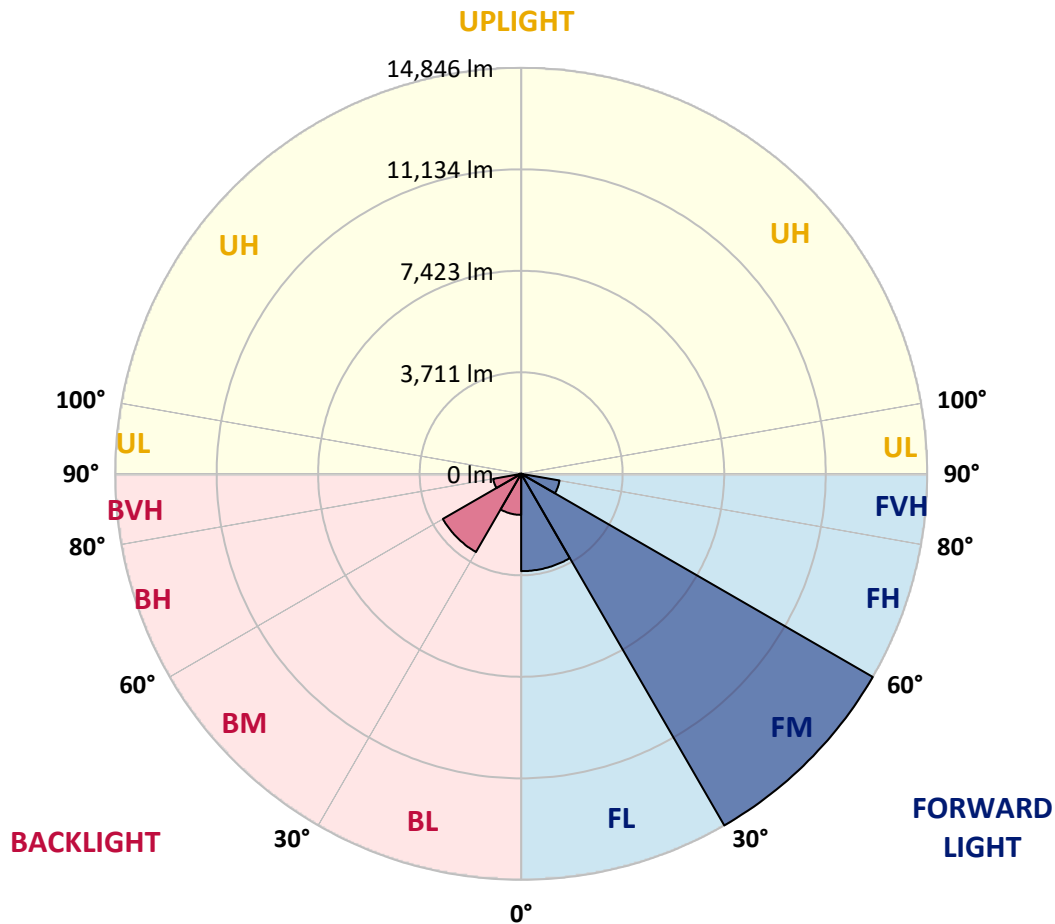
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3559.4	13.8			
FM	(30°-60°)	14845.7	57.6			
FH	(60°-80°)	1423.3	5.5			G1/1800
FVH	(80°-90°)	49.8	0.2			G1/100
BL	(0°-30°)	1501.8	5.8	B3/2500		
BM	(30°-60°)	3303.7	12.8	B3/5000		
BH	(60°-80°)	1040.8	4.0	B3/2500		G3/2500
BVH	(80°-90°)	61.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6
2.5°	4617.1	4588.3	4502.2	4473.5	4371.4	4186.3	4122.5	3934.2	3854.5	3781.1	3694.9
5°	5839.1	5705.1	5695.5	5532.8	5296.7	5159.5	4751.1	4476.7	4224.6	4097.0	3860.8
7.5°	6617.7	6620.9	6620.9	6486.9	6298.6	5950.8	5583.9	5089.3	4709.6	4521.3	4119.3
10°	7357.9	7294.1	7259.0	7246.3	7118.6	6780.4	6387.9	5775.3	5255.2	5035.1	4313.9
12.5°	7881.2	7827.0	7906.8	7865.3	7772.7	7552.6	7182.5	6483.7	5832.8	5536.0	4626.6
15°	8130.1	8168.4	8232.2	8347.1	8305.6	8222.6	7814.2	7211.2	6455.0	6119.9	4904.2
17.5°	8513.0	8407.7	8484.3	8627.9	8742.7	8704.5	8471.5	7737.6	7070.8	6659.2	5277.6
20°	8781.0	8720.4	8758.7	8924.6	9010.8	9227.7	9106.5	8426.9	7661.1	7227.1	5717.9
22.5°	9546.8	9457.5	9333.0	9358.6	9390.5	9543.6	9572.3	9183.1	8347.1	7887.6	6135.9
25°	10491.3	10408.3	10261.6	10111.6	10019.1	9990.3	10089.3	9776.6	9004.4	8529.0	6585.8
27.5°	11531.5	11391.1	11298.6	10989.1	10740.2	10701.9	10654.0	10484.9	9782.9	9269.2	7093.1
30°	12543.0	12431.3	12306.9	11812.3	11553.8	11512.3	11276.2	11324.1	10628.5	10057.3	7667.5
32.5°	13308.8	13318.3	13034.3	12661.0	12418.5	12198.4	12112.2	12249.4	11713.4	11253.9	8308.8
35°	13927.8	13956.5	13685.3	13347.0	13085.4	13238.6	13200.3	13264.1	13008.8	12447.2	9055.4
37.5°	14530.8	14387.2	14096.9	13934.2	13796.9	14049.0	14374.5	14428.7	14476.6	13816.1	9923.3
40°	14629.7	14642.5	14473.4	14588.3	14416.0	14795.7	15551.9	15481.7	15676.3	15098.8	10864.6
42.5°	14489.3	14518.1	14585.1	14747.8	15162.6	15618.9	16742.0	16454.9	16691.0	16177.3	11780.4
45°	14259.6	14141.6	14224.5	14843.5	15561.4	16576.1	17830.1	17606.7	17530.2	17099.4	12871.6
47.5°	13162.0	13283.2	13541.7	14304.3	15382.8	16742.0	18602.3	18551.2	18780.9	18477.8	13864.0
50°	11640.0	11592.1	12089.9	12948.2	14339.4	16416.6	18560.8	19023.4	19518.0	19096.8	14307.5
52.5°	8717.2	8972.5	9400.0	10465.8	12450.4	14642.5	17654.6	18426.8	18828.8	18739.5	13950.1
55°	5510.5	5587.1	5845.5	7112.3	8899.1	11751.7	15133.9	16923.9	17641.8	17976.9	13621.5
57.5°	2677.1	2533.5	2849.4	3867.2	5140.4	7903.6	11671.9	14741.4	16301.7	16908.0	12906.7
60°	1397.6	1451.8	1576.2	1940.0	2657.9	4103.3	7275.0	9824.4	12207.9	13139.6	9782.9
62.5°	1158.3	1177.4	1260.4	1442.2	1767.7	2361.2	3714.1	4789.4	6225.2	7064.4	5564.7
65°	982.8	992.3	1081.7	1202.9	1410.3	1662.4	1911.3	2000.6	2421.8	2485.6	1978.3
67.5°	820.0	829.6	925.3	1040.2	1174.2	1241.2	1305.0	1298.6	1346.5	1327.4	1324.2
70°	631.8	641.3	740.3	861.5	928.5	890.2	1088.1	1132.7	1151.9	1167.8	1193.4
72.5°	456.3	475.4	552.0	638.2	603.1	692.4	896.6	963.6	989.1	998.7	1030.6
75°	331.8	338.2	357.4	331.8	382.9	481.8	631.8	714.7	746.6	756.2	804.1
77.5°	146.8	150.0	153.2	191.4	245.7	299.9	376.5	443.5	488.2	501.0	513.7
80°	76.6	79.8	98.9	130.8	175.5	220.2	274.4	312.7	341.4	344.6	357.4
82.5°	47.9	51.1	70.2	92.5	124.4	162.7	201.0	232.9	255.3	258.5	261.6
85°	22.3	28.7	41.5	57.4	83.0	105.3	108.5	92.5	98.9	102.1	95.7
87.5°	6.4	9.6	12.8	9.6	12.8	12.8	16.0	19.1	19.1	19.1	22.3
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°	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6	3589.6
2.5°	3647.1	3618.3	3506.7	3465.2	3356.7	3375.8	3318.4	3315.2	3302.5	3299.3	3296.1
5°	3736.4	3647.1	3513.1	3410.9	3350.3	3343.9	3302.5	3302.5	3315.2	3324.8	3302.5
7.5°	3883.2	3781.1	3554.5	3458.8	3404.6	3395.0	3366.3	3343.9	3372.7	3363.1	3337.6
10°	4052.3	3873.6	3634.3	3551.3	3462.0	3439.7	3439.7	3449.2	3401.4	3417.3	3391.8
12.5°	4240.6	4001.2	3736.4	3640.7	3535.4	3522.6	3516.2	3446.0	3471.6	3458.8	3395.0
15°	4479.9	4148.0	3867.2	3704.5	3615.2	3557.7	3474.8	3462.0	3446.0	3414.1	3385.4
17.5°	4738.3	4307.6	3927.9	3723.6	3589.6	3548.2	3484.3	3417.3	3369.5	3375.8	3353.5
20°	4958.5	4454.3	3950.2	3742.8	3570.5	3490.7	3391.8	3350.3	3299.3	3296.1	3292.9
22.5°	5220.1	4652.2	3982.1	3691.7	3513.1	3430.1	3363.1	3289.7	3254.6	3209.9	3232.3
25°	5532.8	4728.7	3988.5	3663.0	3471.6	3324.8	3289.7	3209.9	3197.2	3133.3	3146.1
27.5°	5759.4	4770.2	3937.4	3573.7	3375.8	3264.2	3200.4	3142.9	3120.6	3072.7	3060.0
30°	6062.5	4834.0	3828.9	3462.0	3280.1	3155.7	3117.4	3104.6	3040.8	2989.8	2983.4
32.5°	6407.1	4875.5	3758.7	3347.1	3181.2	3085.5	3104.6	3044.0	2964.2	2919.6	2906.8
35°	6681.5	4891.5	3583.2	3216.3	3114.2	3053.6	3031.2	3018.5	2903.6	2862.1	2830.2
37.5°	7099.5	4856.4	3436.5	3123.8	3040.8	3018.5	2999.3	2913.2	2782.4	2721.7	2677.1
40°	7587.7	4846.8	3248.2	2993.0	2970.6	2996.1	2938.7	2804.7	2622.8	2555.8	2523.9
42.5°	8056.7	4913.8	3130.2	2922.8	2894.0	2903.6	2823.8	2622.8	2533.5	2495.2	2444.1
45°	8841.7	5054.2	2935.5	2814.3	2801.5	2795.1	2699.4	2488.8	2437.8	2389.9	2380.3
47.5°	9550.0	4961.7	2811.1	2702.6	2715.4	2680.3	2476.0	2409.0	2351.6	2303.7	2287.8
50°	9591.5	4741.5	2635.6	2616.4	2619.6	2559.0	2364.4	2319.7	2246.3	2214.4	2192.1
52.5°	9374.5	4380.9	2472.9	2479.2	2488.8	2389.9	2227.2	2195.3	2134.6	2090.0	2077.2
55°	8765.1	3819.4	2313.3	2338.8	2364.4	2176.1	2125.1	2045.3	1997.4	1933.6	1936.8
57.5°	7721.7	3075.9	2090.0	2131.4	2185.7	1978.3	1940.0	1841.1	1770.9	1719.8	1713.5
60°	5175.5	2188.9	1754.9	1770.9	1892.1	1809.2	1806.0	1707.1	1611.3	1566.7	1541.1
62.5°	3053.6	1672.0	1515.6	1499.7	1496.5	1544.3	1624.1	1589.0	1464.6	1378.4	1403.9
65°	1598.6	1445.4	1410.3	1356.1	1324.2	1311.4	1372.0	1388.0	1305.0	1212.5	1206.1
67.5°	1343.3	1343.3	1314.6	1295.5	1250.8	1196.5	1158.3	1107.2	1094.4	1068.9	1037.0
70°	1222.1	1254.0	1244.4	1199.7	1161.4	1100.8	1001.9	918.9	839.2	810.5	829.6
72.5°	1065.7	1097.6	1097.6	1075.3	1024.2	931.7	836.0	740.3	673.3	622.2	615.8
75°	820.0	836.0	874.3	848.7	781.7	724.3	625.4	526.5	462.7	414.8	405.2
77.5°	523.3	548.8	548.8	545.6	497.8	443.5	379.7	309.5	261.6	226.5	217.0
80°	347.8	363.7	376.5	363.7	331.8	290.4	242.5	194.6	159.5	130.8	124.4
82.5°	255.3	274.4	284.0	271.2	239.3	207.4	172.3	137.2	102.1	79.8	73.4
85°	98.9	102.1	114.9	137.2	134.0	130.8	105.3	76.6	57.4	41.5	38.3
87.5°	25.5	22.3	25.5	25.5	22.3	19.1	19.1	19.1	19.1	9.6	12.8
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)