

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: P531700

Luminaire Tested: **GALN-SA7A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531700
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-SA7A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 25492 lumens
Efficiency: N/A
Efficacy: 118.6 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

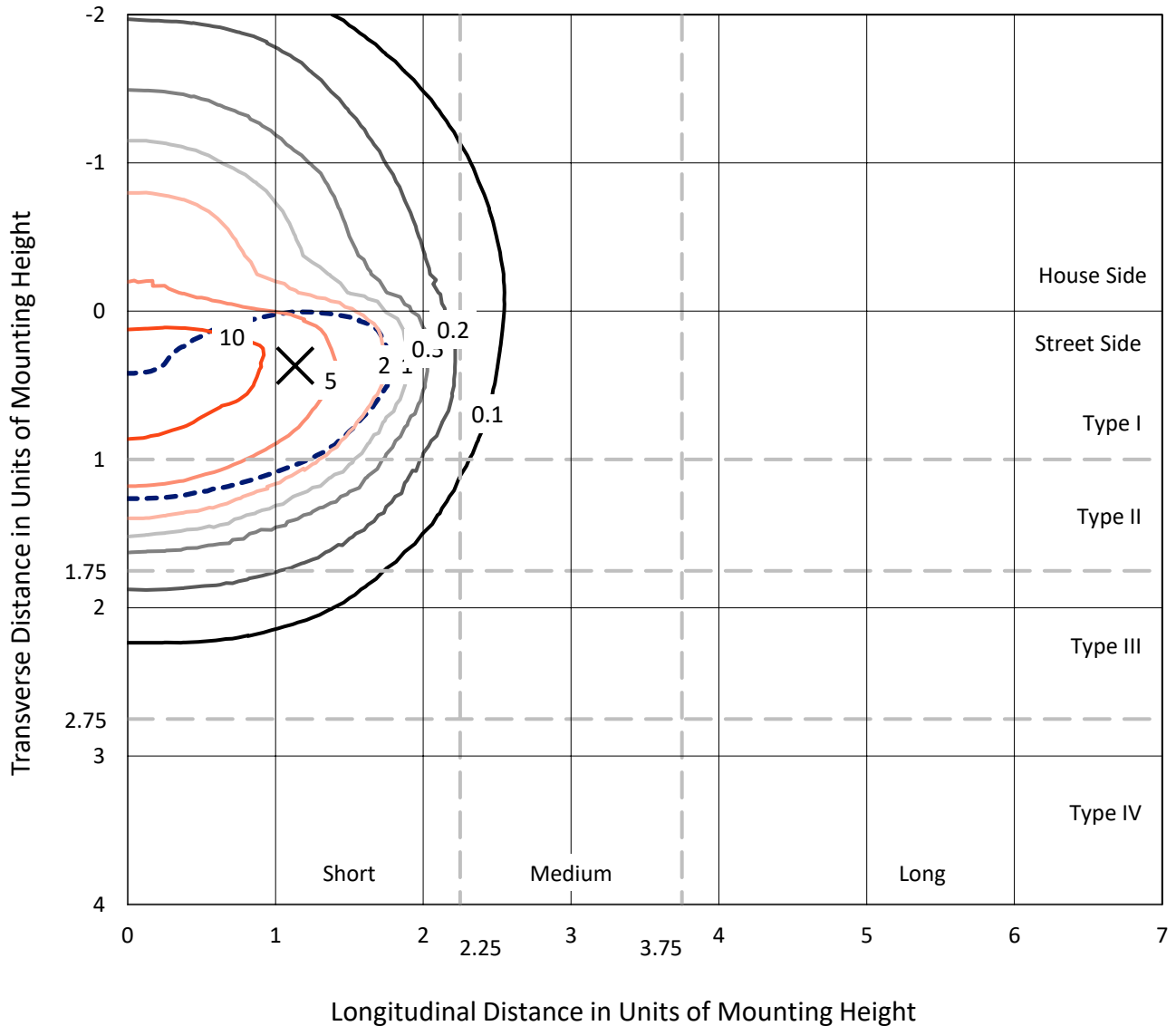
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

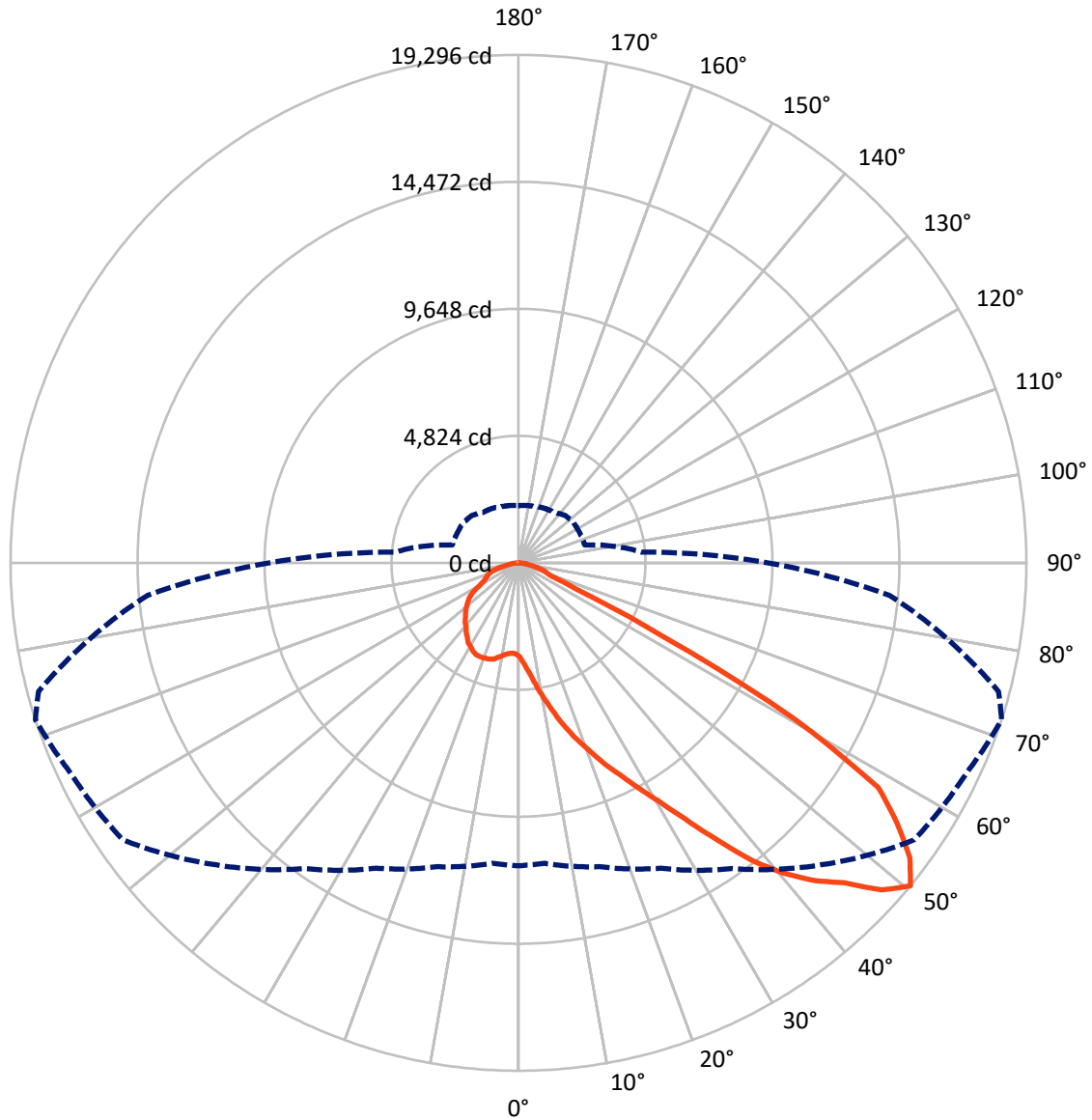
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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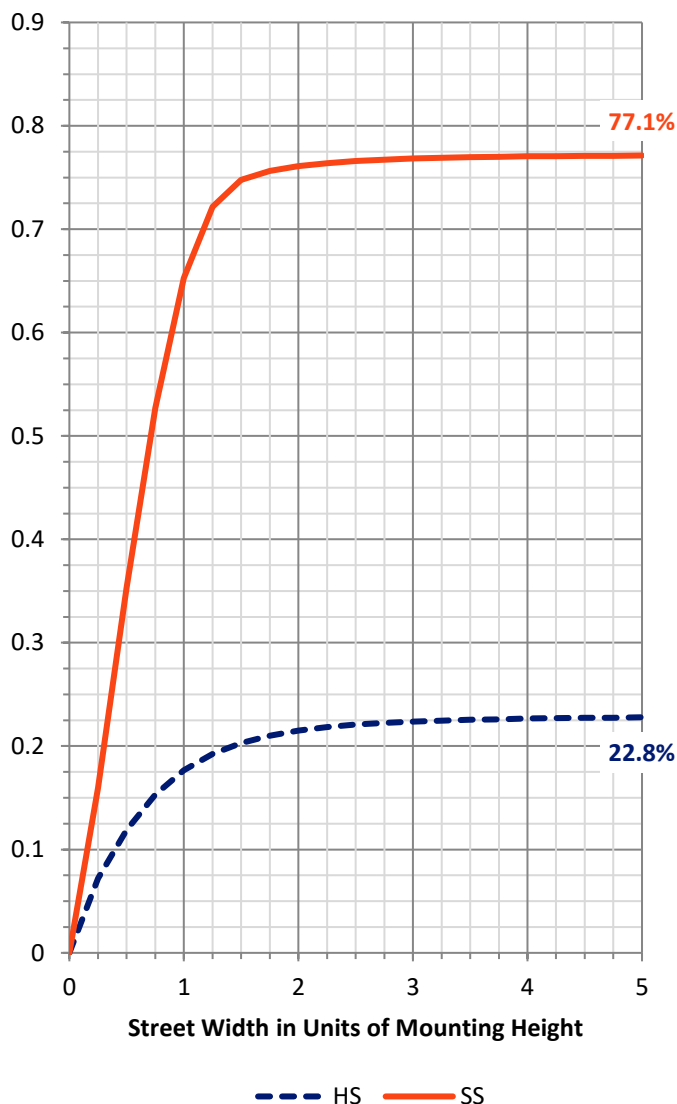
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5840.4	0.0	5840.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19651.6	0.0	19651.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	25492.0	0.0	25492.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.4	1.6
10°-20°	1560.4	6.1
20°-30°	3025.6	11.9
30°-40°	5012.4	19.7
40°-50°	7013.4	27.5
50°-60°	5916.7	23.2
60°-70°	1803.4	7.1
70°-80°	632.7	2.5
80°-90°	110.0	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°	25492.0	100.0
0°-180°	25492.0	100.0

Coefficient of Utilization



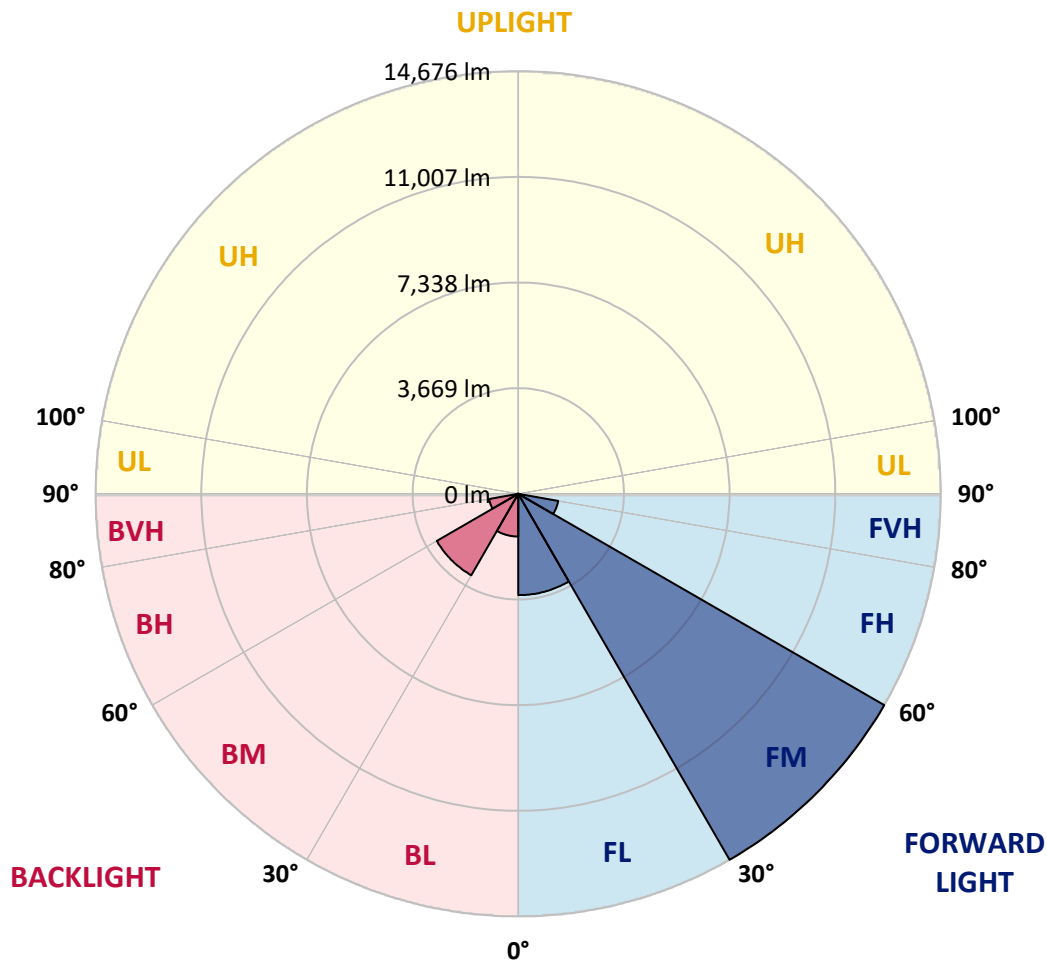
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3518.8	13.8			
FM (30°-60°)	14676.4	57.6			
FH (60°-80°)	1407.1	5.5			G1/1800
FVH (80°-90°)	49.3	0.2			G1/100
BL (0°-30°)	1484.6	5.8	B3/2500		
BM (30°-60°)	3266.0	12.8	B3/5000		
BH (60°-80°)	1029.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	60.7	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°	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7
2.5°	4564.4	4536.0	4450.9	4422.5	4321.5	4138.6	4075.5	3889.4	3810.5	3738.0	3652.8
5°	5772.6	5640.1	5630.6	5469.7	5236.3	5100.7	4696.9	4425.6	4176.4	4050.3	3816.8
7.5°	6542.2	6545.4	6545.4	6412.9	6226.8	5883.0	5520.2	5031.3	4655.9	4469.8	4072.3
10°	7274.1	7211.0	7176.3	7163.7	7037.5	6703.1	6315.1	5709.5	5195.3	4977.6	4264.8
12.5°	7791.4	7737.8	7816.6	7775.6	7684.1	7466.5	7100.6	6409.7	5766.2	5472.9	4573.9
15°	8037.4	8075.3	8138.4	8251.9	8210.9	8128.9	7725.1	7129.0	6381.4	6050.1	4848.3
17.5°	8415.9	8311.9	8387.6	8529.5	8643.1	8605.2	8374.9	7649.4	6990.2	6583.2	5217.4
20°	8680.9	8621.0	8658.8	8822.9	8908.0	9122.5	9002.7	8330.8	7573.7	7144.7	5652.7
22.5°	9438.0	9349.7	9226.6	9251.9	9283.4	9434.8	9463.2	9078.4	8251.9	7797.7	6065.9
25°	10371.7	10289.7	10144.6	9996.3	9904.8	9876.4	9974.2	9665.1	8901.7	8431.7	6510.7
27.5°	11400.0	11261.2	11169.7	10863.8	10617.7	10579.9	10532.6	10365.4	9671.4	9163.5	7012.2
30°	12400.0	12289.6	12166.5	11677.6	11422.1	11381.1	11147.7	11195.0	10507.3	9942.7	7580.0
32.5°	13157.0	13166.5	12885.7	12516.7	12276.9	12059.3	11974.1	12109.8	11579.8	11125.6	8214.1
35°	13769.0	13797.4	13529.2	13194.9	12936.2	13087.6	13049.8	13112.9	12860.5	12305.3	8952.2
37.5°	14365.2	14223.2	13936.2	13775.3	13639.6	13888.8	14210.6	14264.2	14311.5	13658.6	9810.2
40°	14462.9	14475.6	14308.4	14421.9	14251.6	14627.0	15374.6	15305.2	15497.6	14926.6	10740.7
42.5°	14324.1	14352.5	14418.8	14579.7	14989.7	15440.8	16551.2	16267.3	16500.7	15992.8	11646.1
45°	14097.0	13980.3	14062.3	14674.3	15384.0	16387.1	17626.8	17406.0	17330.3	16904.4	12724.9
47.5°	13011.9	13131.8	13387.3	14141.2	15207.4	16551.2	18390.2	18339.7	18566.8	18267.1	13705.9
50°	11507.3	11459.9	11952.0	12800.6	14175.9	16229.4	18349.2	18806.6	19295.5	18879.1	14144.3
52.5°	8617.8	8870.2	9292.9	10346.4	12308.5	14475.6	17453.3	18216.7	18614.1	18525.8	13791.1
55°	5447.7	5523.4	5778.9	7031.2	8797.6	11617.7	14961.3	16731.0	17440.7	17771.9	13466.1
57.5°	2646.5	2504.6	2816.9	3823.1	5081.7	7813.5	11538.8	14573.3	16115.8	16715.2	12759.6
60°	1381.6	1435.3	1558.3	1917.9	2627.6	4056.6	7192.0	9712.4	12068.7	12989.8	9671.4
62.5°	1145.0	1164.0	1246.0	1425.8	1747.5	2334.3	3671.7	4734.8	6154.2	6983.8	5501.3
65°	971.6	981.0	1069.3	1189.2	1394.2	1643.4	1889.5	1977.8	2394.2	2457.3	1955.7
67.5°	810.7	820.1	914.8	1028.3	1160.8	1227.1	1290.2	1283.8	1331.2	1312.2	1309.1
70°	624.6	634.0	731.8	851.7	917.9	880.1	1075.7	1119.8	1138.7	1154.5	1179.7
72.5°	451.1	470.0	545.7	630.9	596.2	684.5	886.4	952.6	977.9	987.3	1018.9
75°	328.1	334.4	353.3	328.1	378.5	476.3	624.6	706.6	738.1	747.6	794.9
77.5°	145.1	148.3	151.4	189.3	242.9	296.5	372.2	438.5	482.6	495.2	507.9
80°	75.7	78.9	97.8	129.3	173.5	217.7	271.3	309.1	337.5	340.7	353.3
82.5°	47.3	50.5	69.4	91.5	123.0	160.9	198.7	230.3	252.4	255.5	258.7
85°	22.1	28.4	41.0	56.8	82.0	104.1	107.2	91.5	97.8	100.9	94.6
87.5°	6.3	9.5	12.6	9.5	12.6	12.6	15.8	18.9	18.9	18.9	22.1
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°	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7	3548.7
2.5°	3605.5	3577.1	3466.7	3425.7	3318.4	3337.4	3280.6	3277.4	3264.8	3261.7	3258.5
5°	3693.8	3605.5	3473.0	3372.1	3312.1	3305.8	3264.8	3264.8	3277.4	3286.9	3264.8
7.5°	3838.9	3738.0	3514.0	3419.4	3365.7	3356.3	3327.9	3305.8	3334.2	3324.7	3299.5
10°	4006.1	3829.4	3592.9	3510.9	3422.5	3400.4	3400.4	3409.9	3362.6	3378.4	3353.1
12.5°	4192.2	3955.6	3693.8	3599.2	3495.1	3482.5	3476.2	3406.8	3432.0	3419.4	3356.3
15°	4428.8	4100.7	3823.1	3662.3	3573.9	3517.2	3435.1	3422.5	3406.8	3375.2	3346.8
17.5°	4684.3	4258.4	3883.1	3681.2	3548.7	3507.7	3444.6	3378.4	3331.0	3337.4	3315.3
20°	4901.9	4403.5	3905.2	3700.1	3529.8	3450.9	3353.1	3312.1	3261.7	3258.5	3255.3
22.5°	5160.6	4599.1	3936.7	3649.6	3473.0	3391.0	3324.7	3252.2	3217.5	3173.3	3195.4
25°	5469.7	4674.8	3943.0	3621.3	3432.0	3286.9	3252.2	3173.3	3160.7	3097.6	3110.2
27.5°	5693.7	4715.8	3892.5	3532.9	3337.4	3227.0	3163.9	3107.1	3085.0	3037.7	3025.1
30°	5993.4	4778.9	3785.3	3422.5	3242.7	3119.7	3081.9	3069.2	3006.1	2955.7	2949.4
32.5°	6334.0	4819.9	3715.9	3309.0	3144.9	3050.3	3069.2	3009.3	2930.4	2886.3	2873.7
35°	6605.3	4835.7	3542.4	3179.6	3078.7	3018.8	2996.7	2984.1	2870.5	2829.5	2798.0
37.5°	7018.5	4801.0	3397.3	3088.2	3006.1	2984.1	2965.1	2880.0	2750.6	2690.7	2646.5
40°	7501.2	4791.5	3211.2	2958.8	2936.7	2962.0	2905.2	2772.7	2592.9	2526.7	2495.1
42.5°	7964.9	4857.8	3094.5	2889.4	2861.0	2870.5	2791.6	2592.9	2504.6	2466.7	2416.3
45°	8740.9	4996.6	2902.1	2782.2	2769.6	2763.3	2668.6	2460.4	2410.0	2362.6	2353.2
47.5°	9441.1	4905.1	2779.0	2671.8	2684.4	2649.7	2447.8	2381.6	2324.8	2277.5	2261.7
50°	9482.1	4687.4	2605.5	2586.6	2589.8	2529.8	2337.4	2293.3	2220.7	2189.2	2167.1
52.5°	9267.6	4331.0	2444.7	2451.0	2460.4	2362.6	2201.8	2170.2	2110.3	2066.1	2053.5
55°	8665.1	3775.8	2286.9	2312.2	2337.4	2151.3	2100.8	2022.0	1974.7	1911.6	1914.7
57.5°	7633.7	3040.8	2066.1	2107.1	2160.8	1955.7	1917.9	1820.1	1750.7	1700.2	1693.9
60°	5116.4	2163.9	1734.9	1750.7	1870.6	1788.5	1785.4	1687.6	1593.0	1548.8	1523.6
62.5°	3018.8	1652.9	1498.3	1482.6	1479.4	1526.7	1605.6	1570.9	1447.9	1362.7	1387.9
65°	1580.4	1428.9	1394.2	1340.6	1309.1	1296.5	1356.4	1372.2	1290.2	1198.7	1192.4
67.5°	1328.0	1328.0	1299.6	1280.7	1236.5	1182.9	1145.0	1094.6	1082.0	1056.7	1025.2
70°	1208.1	1239.7	1230.2	1186.1	1148.2	1088.3	990.5	908.5	829.6	801.2	820.1
72.5°	1053.6	1085.1	1085.1	1063.0	1012.6	921.1	826.5	731.8	665.6	615.1	608.8
75°	810.7	826.5	864.3	839.1	772.8	716.0	618.3	520.5	457.4	410.1	400.6
77.5°	517.3	542.6	542.6	539.4	492.1	438.5	375.4	306.0	258.7	224.0	214.5
80°	343.8	359.6	372.2	359.6	328.1	287.1	239.7	192.4	157.7	129.3	123.0
82.5°	252.4	271.3	280.7	268.1	236.6	205.0	170.3	135.6	100.9	78.9	72.6
85°	97.8	100.9	113.6	135.6	132.5	129.3	104.1	75.7	56.8	41.0	37.9
87.5°	25.2	22.1	25.2	25.2	22.1	18.9	18.9	18.9	18.9	9.5	12.6
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)