

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: P647618

Luminaire Tested: **GALN-SA8D-835-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28852.8 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

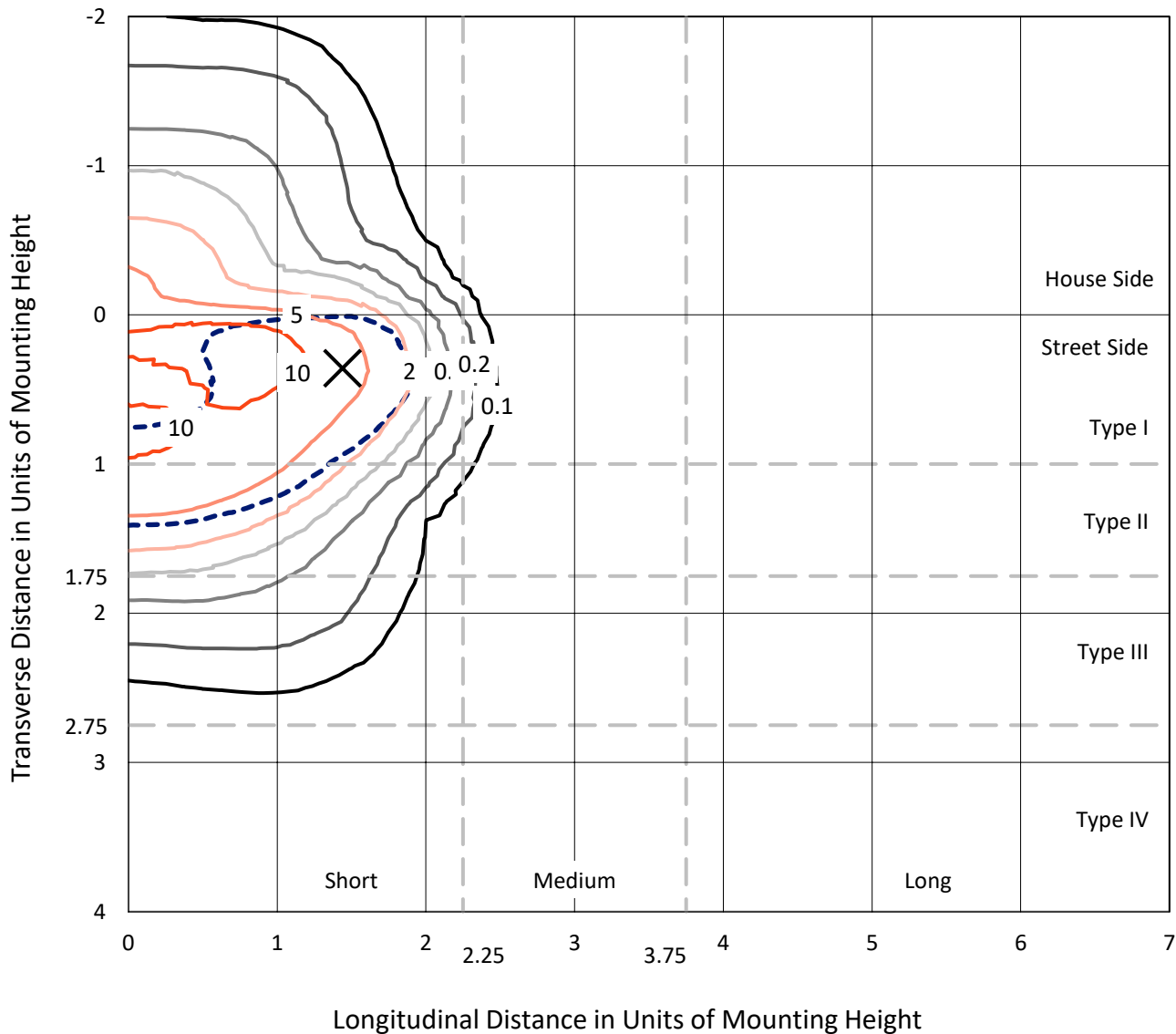
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

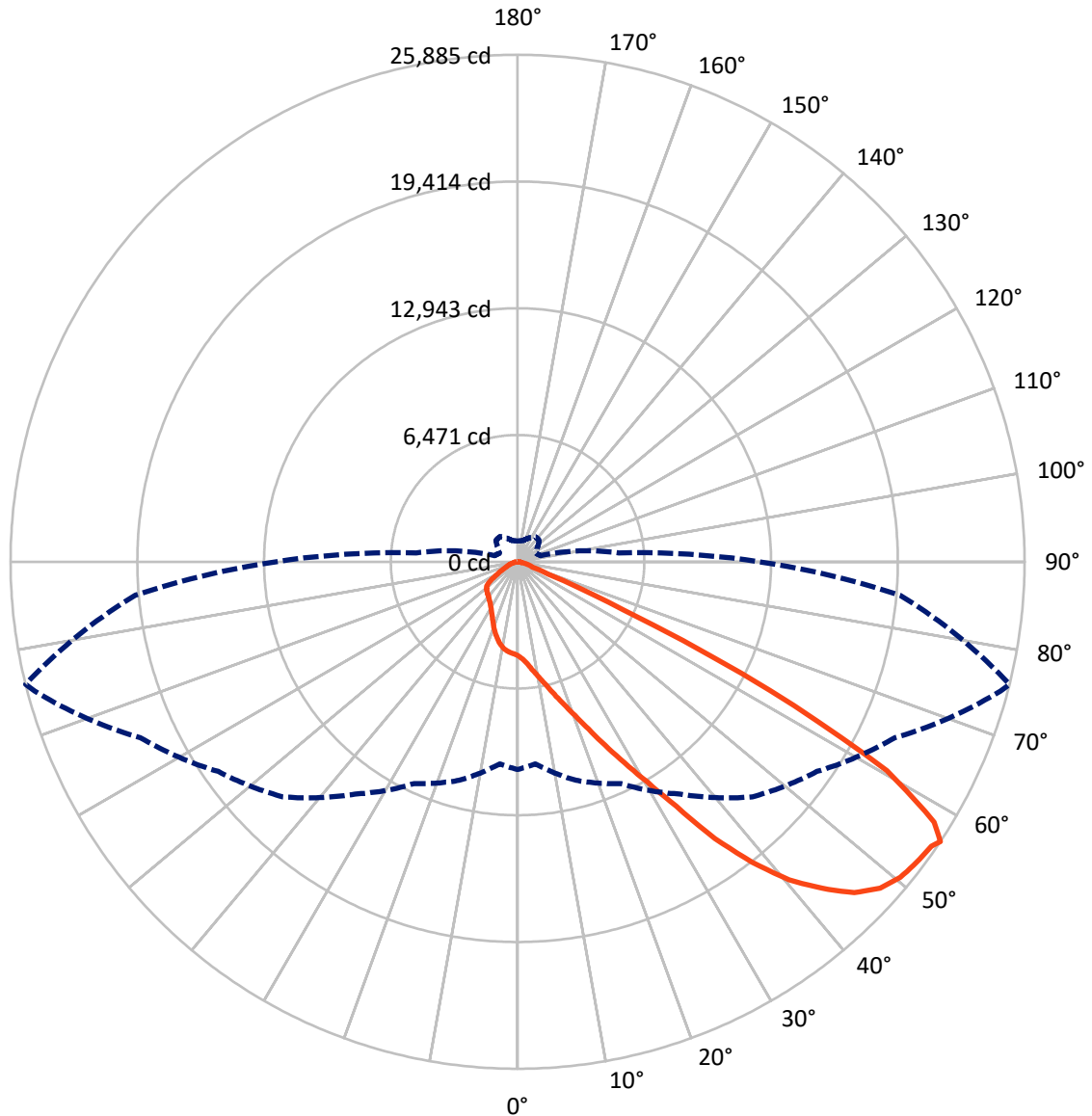
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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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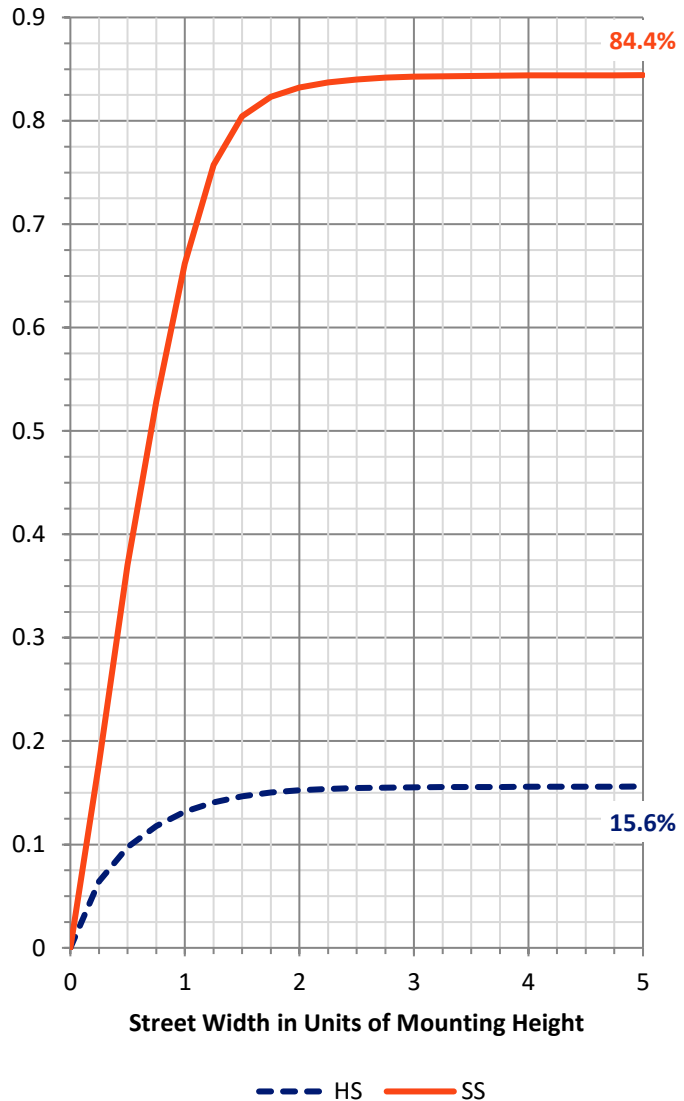
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4532.6	0.0	4532.6
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	24320.1	0.0	24320.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	28852.8	0.0	28852.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.8	1.7
10°-20°	1554.3	5.4
20°-30°	2818.3	9.8
30°-40°	4860.2	16.8
40°-50°	7895.6	27.4
50°-60°	8322.3	28.8
60°-70°	2542.8	8.8
70°-80°	326.0	1.1
80°-90°	49.5	0.2
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°	28852.8	100.0
0°-180°	28852.8	100.0

Coefficient of Utilization

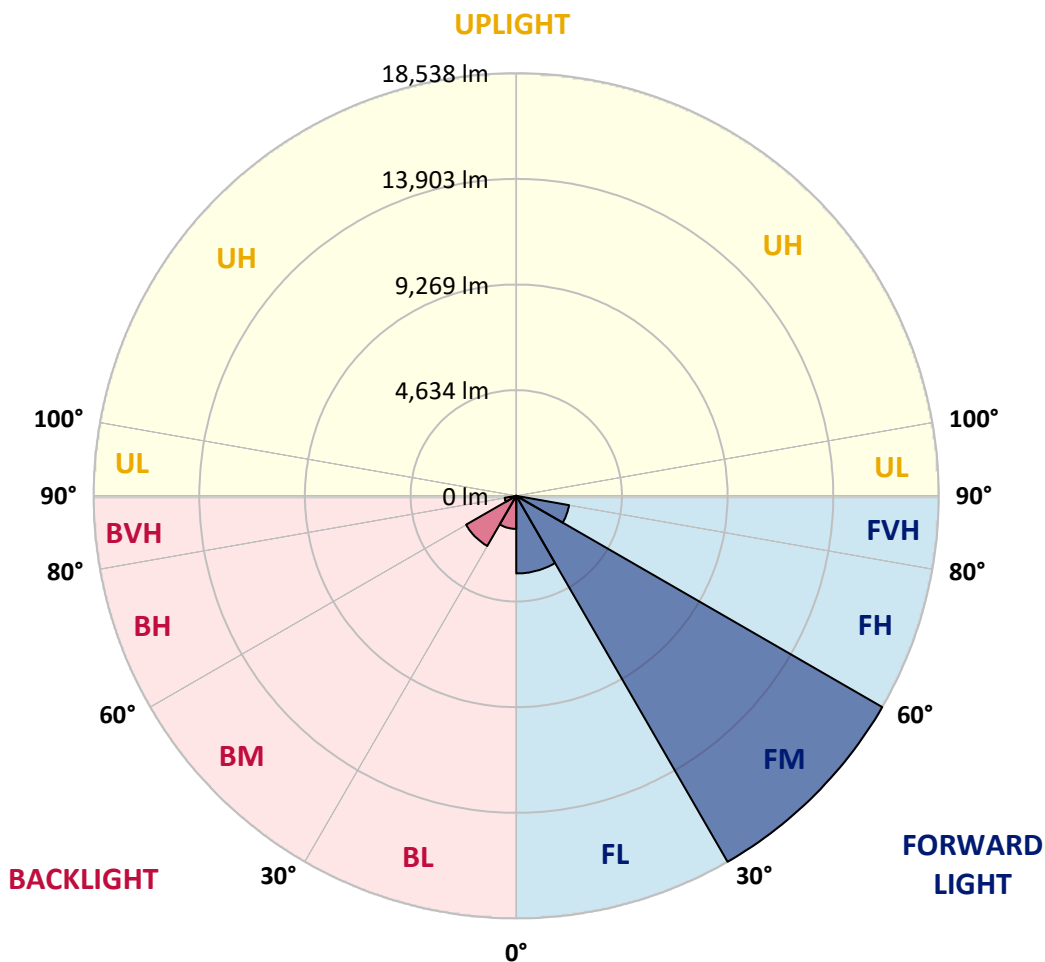


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3406.3	11.8			
FM (30°-60°)	18537.9	64.2			
FH (60°-80°)	2351.7	8.2			G2/5000
FVH (80°-90°)	24.3	0.1			G1/100
BL (0°-30°)	1450.0	5.0	B3/2500		
BM (30°-60°)	2540.3	8.8	B3/5000		
BH (60°-80°)	517.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	25.3	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6
2.5°	5531.2	5403.6	5408.9	5398.2	5382.3	5323.8	5148.3	5121.7	5004.7	4972.8	4866.4
5°	6196.0	6084.3	6148.2	6052.4	5962.0	5908.8	5621.6	5488.7	5302.6	5233.4	5084.5
7.5°	6610.9	6557.7	6536.4	6541.7	6456.6	6323.7	6196.0	5903.5	5653.6	5600.3	5286.6
10°	6813.0	6781.1	6813.0	6797.0	6834.3	6850.2	6626.8	6451.3	6084.3	5993.9	5504.6
12.5°	6860.8	6924.7	6951.2	7020.4	7110.8	7265.1	7249.1	7009.7	6520.4	6461.9	5839.7
15°	6977.9	7031.0	7004.4	7116.1	7286.3	7546.9	7685.2	7648.0	7121.5	7015.1	6227.9
17.5°	7084.2	6988.5	7078.9	7302.3	7472.5	7871.3	8206.4	8360.6	7775.6	7653.3	6584.2
20°	7227.8	7201.3	7185.3	7296.9	7600.1	8131.9	8796.8	9078.7	8509.6	8381.9	7094.8
22.5°	7663.9	7669.3	7658.6	7493.7	7711.8	8312.8	9312.7	10009.4	9387.2	9280.7	7674.6
25°	8238.3	8169.2	8116.0	7983.0	7956.5	8477.6	9833.9	11147.5	10440.2	10365.7	8302.1
27.5°	8844.6	8844.6	8685.1	8562.7	8392.6	8887.2	10312.5	12253.8	11711.3	11610.2	8849.9
30°	9504.1	9541.3	9520.1	9259.4	9153.1	9333.9	10801.8	13668.5	13168.6	13040.9	9754.1
32.5°	10477.4	10397.6	10488.1	10270.0	9956.2	10115.7	11573.0	14934.3	15061.9	14881.1	10940.1
35°	11764.5	11716.6	11658.1	11301.7	10929.5	11057.1	12663.3	16492.6	17439.3	17348.9	12136.7
37.5°	12918.6	12892.0	12844.1	12599.5	12168.7	12322.9	13902.5	18114.7	19758.1	19460.3	13828.0
40°	14131.2	14274.8	14120.5	13902.5	13508.9	13849.3	15359.8	19077.4	21710.0	21348.3	15120.4
42.5°	15774.6	15662.9	15732.0	15333.2	15120.4	15492.8	16822.4	20040.0	23225.8	22795.0	16492.6
45°	17524.4	17529.7	17343.5	17215.9	16662.8	17067.0	17721.2	20571.8	24433.1	24098.0	17529.7
47.5°	18646.6	18641.3	18843.4	19045.5	18476.4	18077.5	18332.8	21077.1	25055.4	24901.1	17907.3
50°	18471.0	18524.3	18784.9	19540.1	19837.9	19300.8	18907.2	20928.2	25337.3	25321.3	18231.8
52.5°	16067.2	16242.6	16678.8	17769.0	19268.8	19933.7	19508.2	21204.7	25475.5	25502.1	18715.7
55°	12232.5	12328.3	13157.9	14482.2	16141.5	18417.9	19268.8	21422.8	25581.9	25629.8	19300.8
56°	10610.4	10355.1	11551.8	12493.1	14476.9	16966.0	18662.6	21252.7	25518.0	25885.0	19593.2
57.5°	8009.6	7839.5	8807.4	9982.8	11892.1	14519.5	16779.8	20449.5	25087.2	25081.9	19173.1
60°	4871.7	4701.5	5446.2	6137.5	7206.6	8940.4	11339.0	16285.1	21210.1	21656.8	15524.6
62.5°	2898.6	3004.9	3738.9	4159.1	4504.8	4685.6	5866.3	9679.6	14152.5	14471.6	9631.8
65°	1930.6	1967.8	2520.9	3212.3	3366.6	2680.5	2388.0	3919.7	6137.5	5940.8	3972.9
67.5°	1191.3	1276.4	1691.3	2414.6	2675.2	1957.2	1132.8	1462.6	1691.3	1691.3	1148.8
70°	723.3	765.9	1127.5	1643.4	1834.9	1260.5	824.3	824.3	813.7	797.8	686.1
72.5°	345.7	372.3	574.4	845.6	861.6	664.8	638.2	696.7	680.7	675.4	569.1
75°	148.9	159.6	202.1	265.9	303.2	281.9	388.2	499.9	515.9	499.9	409.5
77.5°	47.8	53.2	74.5	95.8	101.1	122.3	164.9	207.4	239.4	223.4	202.1
80°	5.3	10.6	21.3	47.8	74.5	95.8	122.3	138.3	154.3	154.3	143.6
82.5°	5.3	5.3	21.3	42.5	69.1	90.4	117.0	133.0	154.3	159.6	148.9
85°	0.0	5.3	16.0	37.2	58.5	58.5	53.2	53.2	37.2	37.2	37.2
87.5°	0.0	0.0	5.3	5.3	5.3	10.6	10.6	10.6	10.6	10.6	10.6
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°	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6	4802.6
2.5°	4845.1	4834.5	4690.9	4600.5	4552.6	4456.9	4398.3	4355.8	4324.0	4286.7	4292.0
5°	4908.9	4871.7	4632.4	4467.5	4270.7	4164.4	4073.9	3999.5	3951.6	3941.0	3919.7
7.5°	5089.8	4893.0	4531.4	4233.5	3983.5	3877.2	3797.4	3749.6	3770.8	3722.9	3760.2
10°	5228.1	4935.6	4409.0	3978.2	3728.3	3648.5	3605.9	3643.1	3696.3	3675.1	3648.5
12.5°	5398.2	4978.1	4212.2	3733.6	3499.5	3441.1	3515.5	3584.7	3691.1	3733.6	3680.4
15°	5589.8	5026.0	3962.3	3451.7	3302.8	3350.6	3478.3	3600.6	3707.0	3760.2	3792.1
17.5°	5823.7	5010.0	3717.6	3228.3	3116.7	3254.9	3409.2	3520.8	3680.4	3760.2	3738.9
20°	6041.8	4956.9	3446.4	3004.9	3010.2	3137.9	3265.6	3446.4	3531.5	3637.8	3600.6
22.5°	6249.2	4861.1	3164.5	2850.7	2850.7	3047.5	3111.3	3228.3	3302.8	3355.9	3350.6
25°	6541.7	4680.2	2930.5	2701.8	2765.6	2893.3	2946.4	2983.7	2951.8	2994.3	2999.6
27.5°	6749.1	4494.1	2739.0	2568.8	2685.8	2781.5	2765.6	2744.3	2669.9	2611.4	2648.6
30°	6972.5	4276.0	2574.1	2478.4	2542.2	2627.4	2563.5	2499.6	2382.7	2286.9	2292.2
32.5°	7291.6	4175.0	2430.5	2372.0	2457.1	2467.8	2398.6	2302.9	2185.9	2095.5	2090.1
35°	7887.3	4111.2	2308.2	2302.9	2318.9	2324.2	2255.0	2138.1	2090.1	2015.7	2042.3
37.5°	8482.9	4079.3	2223.1	2201.9	2196.5	2201.9	2122.1	2010.4	2100.8	2095.5	2106.1
40°	9243.5	4222.9	2100.8	2074.2	2079.5	2079.5	1978.5	1946.5	2106.1	2122.1	2127.4
42.5°	10014.7	4403.7	2021.0	1935.9	1957.2	1957.2	1904.0	1866.8	1978.5	1872.1	1856.2
45°	10684.8	4669.7	1935.9	1797.6	1850.9	1877.4	1861.5	1797.6	1728.5	1547.7	1547.7
47.5°	10902.9	4903.6	1834.9	1664.7	1707.3	1824.2	1776.4	1643.4	1521.1	1372.1	1361.6
50°	11285.8	5159.0	1755.1	1510.5	1600.8	1744.4	1696.6	1563.7	1425.4	1319.0	1324.3
52.5°	11679.4	5451.4	1606.2	1329.6	1441.3	1680.6	1680.6	1531.7	1319.0	1244.5	1233.9
55°	12269.8	5440.8	1340.3	1090.2	1287.1	1584.9	1611.5	1372.1	1180.7	1122.2	1122.2
56°	12354.8	5196.1	1207.3	1021.1	1218.0	1558.3	1563.7	1329.6	1127.5	1063.7	1063.7
57.5°	11716.6	4690.9	1058.4	936.1	1132.8	1510.5	1515.7	1292.4	1085.0	994.6	983.9
60°	9014.8	3175.1	882.8	835.0	1026.4	1361.6	1388.1	1175.4	952.0	882.8	877.6
62.5°	5089.8	1760.4	776.5	755.2	882.8	1159.5	1239.2	1026.4	808.4	771.2	781.8
65°	2324.2	967.9	654.2	611.6	712.7	893.5	999.9	845.6	664.8	622.3	622.3
67.5°	851.0	659.5	558.4	484.0	499.9	579.7	648.9	547.8	441.5	377.6	393.5
70°	606.3	553.1	489.3	420.2	388.2	377.6	372.3	308.5	218.1	170.2	180.8
72.5°	489.3	457.4	409.5	356.3	303.2	255.3	218.1	159.6	101.1	69.1	63.8
75°	351.0	335.0	297.9	255.3	212.7	180.8	148.9	101.1	53.2	26.6	26.6
77.5°	180.8	180.8	175.5	159.6	133.0	106.3	85.1	58.5	31.9	10.6	10.6
80°	138.3	148.9	154.3	138.3	122.3	95.8	69.1	42.5	21.3	5.3	5.3
82.5°	133.0	154.3	164.9	143.6	122.3	90.4	69.1	42.5	21.3	5.3	5.3
85°	31.9	31.9	47.8	53.2	69.1	74.5	58.5	37.2	16.0	5.3	5.3
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	5.3	5.3	5.3	5.3	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)