

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: P647681

Luminaire Tested: **GALN-SA9D-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32792 lumens
Efficiency: N/A
Efficacy: 59.4 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

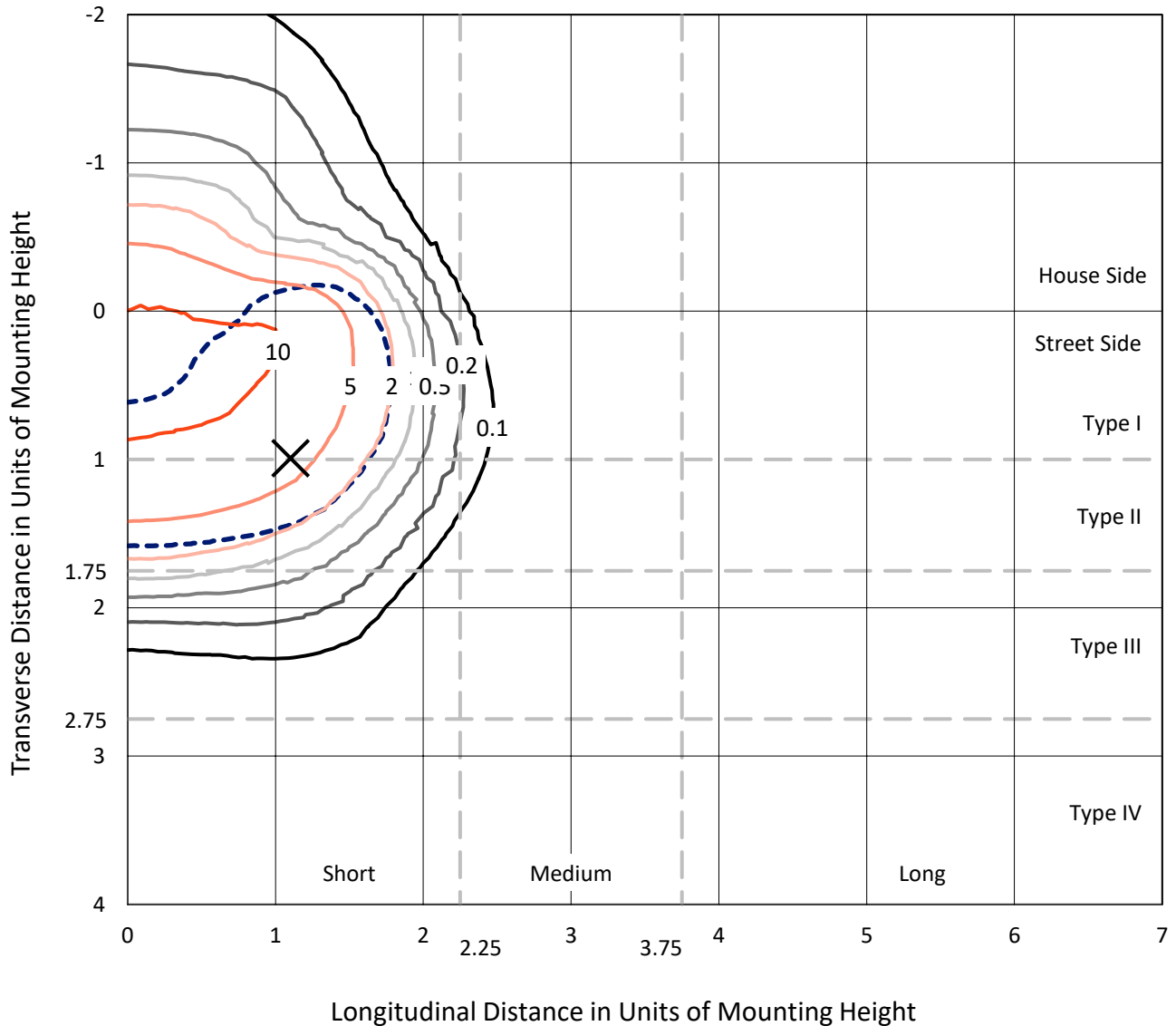
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

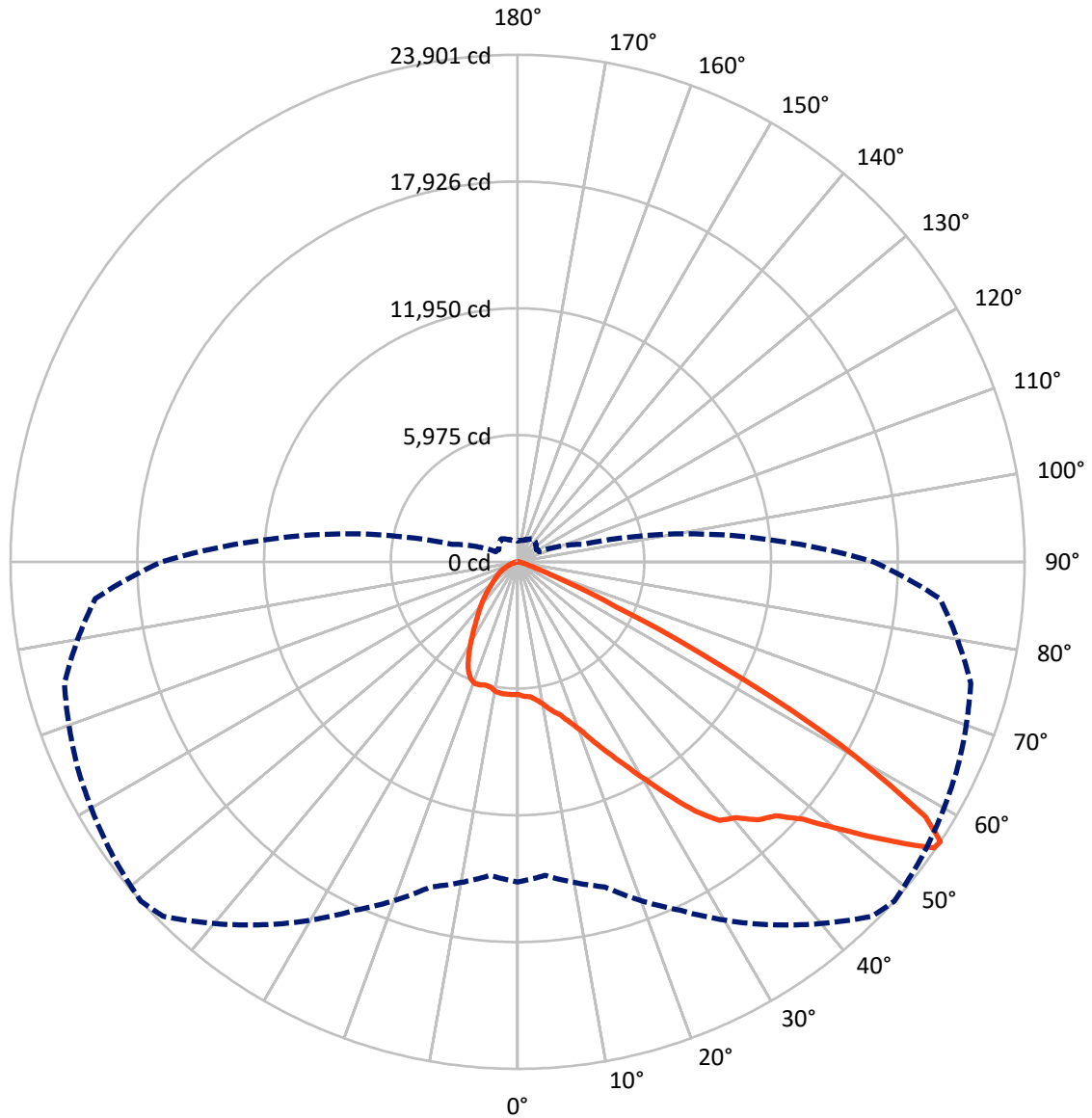
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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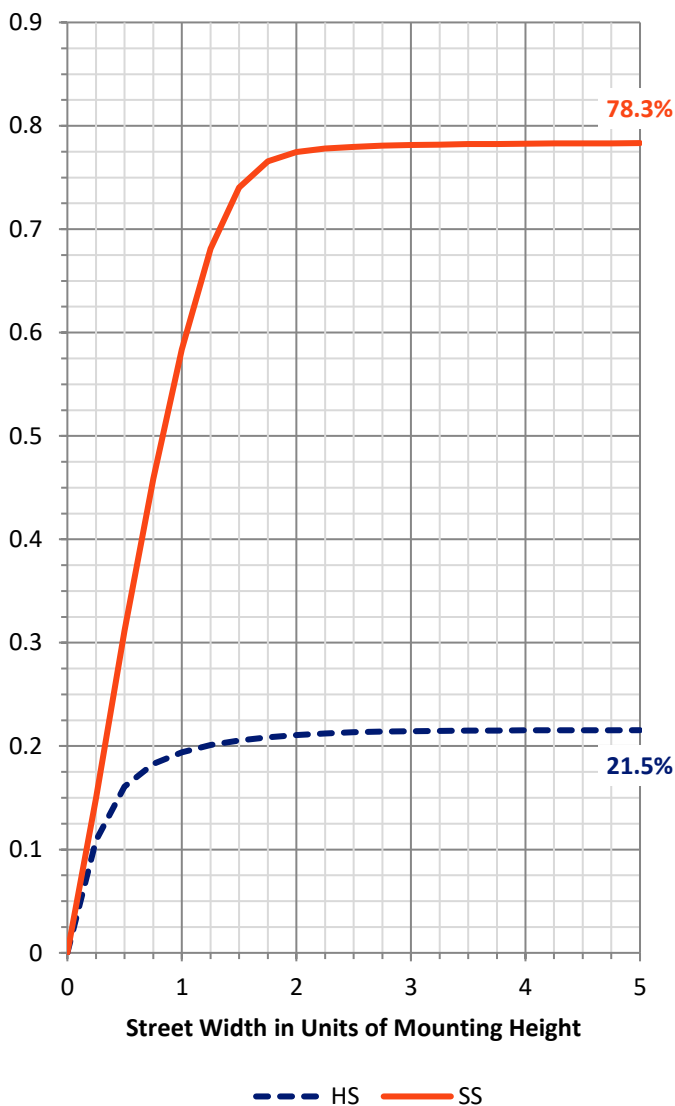
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7131.6	0.0	7131.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	25660.4	0.0	25660.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	32792.0	0.0	32792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.1	1.9
10°-20°	1949.8	5.9
20°-30°	3536.6	10.8
30°-40°	5555.3	16.9
40°-50°	8104.1	24.7
50°-60°	9763.9	29.8
60°-70°	2858.8	8.7
70°-80°	362.7	1.1
80°-90°	50.9	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°	32792.0	100.0
0°-180°	32792.0	100.0

Coefficient of Utilization

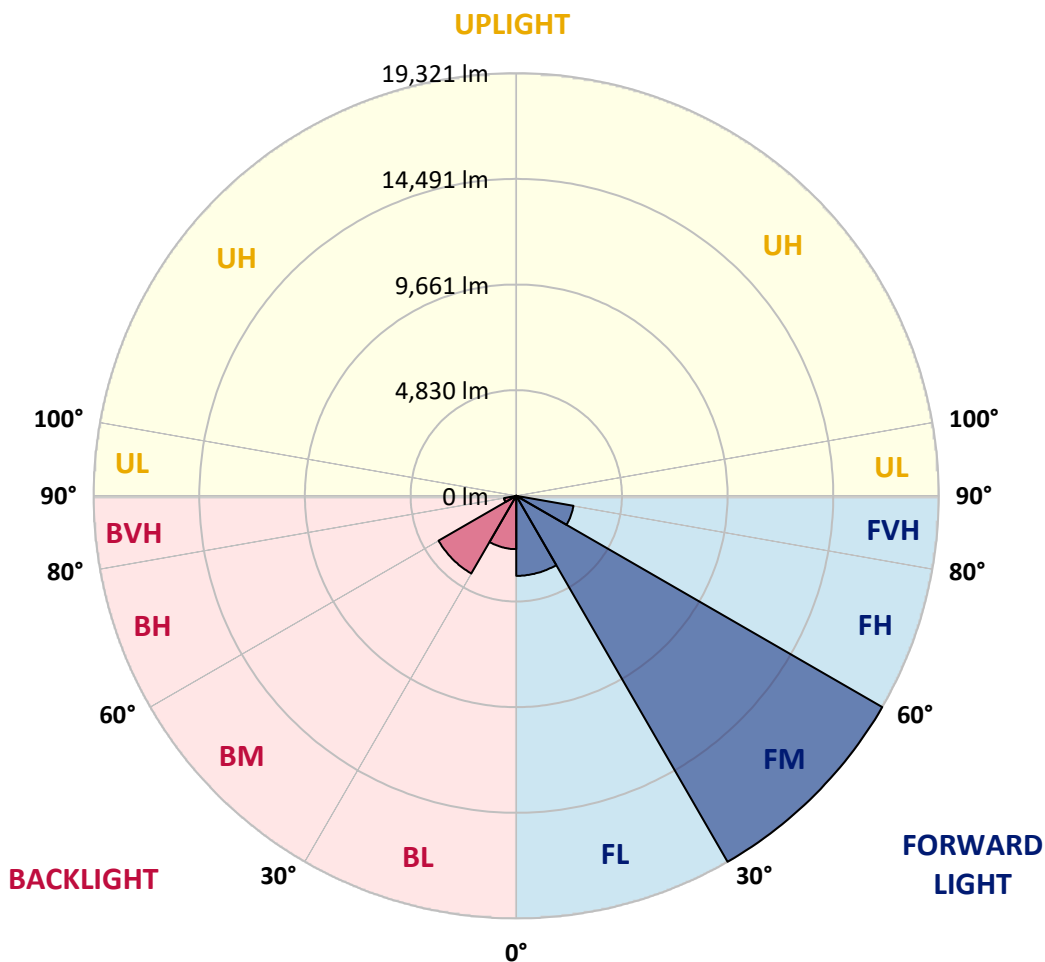


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3658.9	11.2			
FM (30°-60°)	19321.2	58.9			
FH (60°-80°)	2654.8	8.1			G2/5000
FVH (80°-90°)	25.5	0.1			G1/100
BL (0°-30°)	2437.6	7.4	B3/2500		
BM (30°-60°)	4102.1	12.5	B3/5000		
BH (60°-80°)	566.7	1.7	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°	48°	55°	65°	75°	85°
0°	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3
2.5°	6376.8	6346.9	6346.9	6299.2	6352.9	6329.0	6346.9	6287.2	6346.9	6257.3	6329.0
5°	6406.6	6412.5	6388.7	6418.6	6418.6	6454.3	6394.7	6448.4	6478.2	6412.5	6382.7
7.5°	6561.9	6573.8	6567.8	6543.9	6591.7	6585.7	6579.7	6538.0	6549.9	6526.0	6490.2
10°	6866.4	6860.3	6890.2	6830.5	6794.7	6836.5	6848.4	6782.7	6735.0	6717.0	6603.6
12.5°	7308.2	7236.5	7194.8	7135.0	7152.9	7093.2	7200.7	7087.2	7063.4	6955.9	6842.5
15°	7666.4	7654.5	7660.5	7564.9	7457.4	7481.3	7481.3	7421.6	7385.8	7254.4	7093.2
17.5°	8400.8	8150.0	8203.8	8084.4	7994.8	7988.9	7935.1	7947.1	7851.5	7576.9	7332.1
20°	8974.0	8866.5	8782.9	8580.0	8442.6	8484.4	8460.5	8400.8	8371.0	8012.8	7666.4
22.5°	9487.5	9523.3	9386.0	9332.3	9141.2	9159.1	9206.8	9153.1	8926.2	8556.1	8042.6
25°	10209.9	10168.1	9983.1	9917.4	9738.2	9803.9	9989.0	9947.2	9803.9	9135.2	8335.1
27.5°	11063.8	10920.4	10956.3	10657.7	10484.6	10669.7	10890.6	11099.6	10693.6	9815.8	8681.4
30°	11666.8	11517.5	11505.6	11493.7	11451.8	11666.8	11923.5	12114.6	11786.2	10496.5	9254.6
32.5°	11965.3	12001.2	12102.7	12066.8	12431.1	12872.9	13141.6	13416.2	13004.2	11607.1	10012.9
35°	12759.5	12532.5	12759.5	12783.3	13159.5	14096.9	14437.2	15094.0	14992.5	13177.4	10938.4
37.5°	13225.2	13207.3	13237.1	13464.0	13828.2	14986.5	15470.1	15977.7	15786.6	14120.8	12090.7
40°	13995.4	14043.2	14037.2	14210.4	14610.4	15655.2	15852.3	16264.2	16282.2	15428.4	13786.4
42.5°	15231.3	15040.3	14914.9	15094.0	15655.2	16234.4	16628.5	16544.9	17136.0	17016.5	15965.8
45°	16341.9	16455.3	16270.3	16568.7	16771.8	17082.2	17070.3	17249.4	18001.7	18569.0	17607.7
47.5°	17380.8	17452.4	17542.0	17745.0	18186.8	18234.6	18133.1	18055.5	19094.4	19679.5	18879.5
50°	18001.7	18067.4	18485.4	18849.6	19673.6	19781.0	19840.8	19643.7	20348.2	20413.9	20079.6
52.5°	17834.5	17906.2	18491.3	19691.4	21005.0	21990.2	21811.1	21476.7	21434.9	21691.7	21190.1
55°	16353.8	16288.1	17094.2	18963.0	21423.0	23787.4	23811.3	23459.0	22784.3	22611.2	21022.9
56°	15094.0	14837.2	15864.2	18121.1	20885.6	23632.1	23900.8	23524.7	22891.8	22115.6	19990.0
57.5°	12365.4	12610.2	13631.2	15500.0	19028.7	22515.6	22670.8	22581.3	22103.6	20802.0	17589.8
60°	6818.6	7248.5	8150.0	10436.8	13547.5	17279.3	17404.7	18133.1	18222.7	15929.9	12102.7
62.5°	2895.8	2848.0	3785.4	5469.2	7714.2	10430.9	10663.8	11410.0	11547.4	9182.9	6072.2
65°	1176.2	1241.9	1713.6	2752.5	4078.0	4752.7	5081.1	5325.9	5779.6	3791.4	2239.0
67.5°	776.2	770.2	1009.1	1570.3	2197.3	2119.6	2119.6	2239.0	2071.8	1546.4	967.2
70°	555.3	573.2	722.5	1086.6	1367.3	1015.0	973.2	931.5	1056.8	1021.0	782.1
72.5°	364.3	388.1	483.7	650.8	710.5	555.3	555.3	668.8	871.7	824.0	638.8
75°	238.8	244.8	298.6	376.2	352.3	286.6	316.4	447.8	632.9	609.0	453.7
77.5°	161.2	167.2	203.0	244.8	197.0	161.2	173.1	226.9	310.5	310.5	238.8
80°	59.7	65.7	83.6	77.6	89.6	113.5	125.4	155.3	185.1	185.1	161.2
82.5°	0.0	6.0	17.9	41.8	65.7	89.6	101.5	119.4	137.3	155.3	149.2
85°	0.0	6.0	17.9	29.8	47.8	53.7	59.7	41.8	35.9	35.9	29.8
87.5°	0.0	0.0	6.0	6.0	6.0	6.0	6.0	6.0	12.0	6.0	6.0
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°	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3	6263.3
2.5°	6263.3	6257.3	6257.3	6239.4	6275.2	6257.3	6269.2	6263.3	6185.7	6245.4	6203.6
5°	6329.0	6370.8	6305.1	6293.1	6245.4	6263.3	6263.3	6203.6	6257.3	6251.3	6239.4
7.5°	6496.2	6424.5	6352.9	6281.2	6269.2	6251.3	6185.7	6161.8	6203.6	6155.8	6227.4
10°	6567.8	6579.7	6472.3	6376.8	6287.2	6161.8	6072.2	6018.5	5952.8	6024.5	6066.3
12.5°	6896.2	6776.8	6591.7	6442.4	6137.9	6012.5	5922.9	5899.0	6012.5	6036.4	5994.6
15°	7009.7	6991.7	6752.9	6418.6	6102.1	5952.8	5970.8	5922.9	5934.9	5875.2	5887.1
17.5°	7242.5	7039.5	6758.9	6340.9	6096.1	6060.3	5952.8	5761.8	5654.3	5606.5	5648.3
20°	7499.3	7302.2	6896.2	6370.8	6149.8	6054.3	5702.0	5469.2	5248.3	5128.9	5134.8
22.5°	7726.1	7481.3	6836.5	6382.7	6197.6	5803.5	5379.6	4919.9	4645.2	4460.1	4466.1
25°	8000.8	7654.5	6860.3	6406.6	6072.2	5403.5	4794.5	4346.7	4018.3	3892.9	3934.7
27.5°	8156.0	7762.0	6991.7	6460.3	5743.9	4836.3	4179.5	3761.5	3570.5	3510.8	3504.8
30°	8621.8	8000.8	7152.9	6352.9	5194.5	4227.3	3618.2	3361.5	3176.4	3122.7	3134.7
32.5°	9314.3	8436.7	7361.9	6072.2	4633.2	3683.9	3254.1	3063.0	2889.8	2788.3	2776.4
35°	9893.5	9182.9	7582.8	5636.3	3982.5	3266.0	2997.3	2758.5	2495.7	2382.4	2352.4
37.5°	10998.1	10024.8	7535.0	4979.6	3361.5	2955.5	2722.6	2430.1	2203.2	2047.9	2030.1
40°	12466.8	11010.0	7302.2	4179.5	2901.8	2680.8	2430.1	2149.5	1868.9	1737.5	1725.6
42.5°	14252.2	12216.1	6878.3	3367.5	2442.0	2406.2	2179.3	1856.9	1606.1	1510.6	1516.6
45°	15703.0	13249.1	6448.4	2704.7	2101.7	2137.5	1940.5	1636.0	1462.8	1385.2	1385.2
47.5°	16992.7	13947.7	5982.7	2233.0	1785.2	1868.9	1695.7	1516.6	1367.3	1307.6	1295.6
50°	18234.6	14658.2	5516.9	1809.1	1522.5	1606.1	1588.2	1444.9	1325.5	1253.8	1259.8
52.5°	19010.8	14771.6	4925.9	1480.7	1331.5	1427.0	1486.7	1355.4	1224.0	1182.2	1170.3
55°	18061.5	13308.7	3821.3	1218.0	1128.5	1253.8	1367.3	1218.0	1116.6	1044.9	1038.9
56°	16783.7	11899.6	3194.3	1122.5	1068.8	1206.1	1325.5	1164.3	1050.9	1009.1	979.2
57.5°	14210.4	9738.2	2358.5	997.2	991.1	1122.5	1259.8	1110.5	979.2	943.4	943.4
60°	8860.6	5481.2	1427.0	835.9	859.8	997.2	1134.4	991.1	871.7	871.7	889.6
62.5°	4036.2	2280.8	865.8	710.5	740.4	859.8	1009.1	895.6	829.9	895.6	907.6
65°	1373.3	985.2	626.9	567.2	585.1	710.5	865.8	907.6	901.5	943.4	967.2
67.5°	770.2	632.9	525.4	471.7	459.8	525.4	710.5	907.6	871.7	853.8	865.8
70°	650.8	537.4	465.7	418.0	400.0	423.9	549.3	686.6	615.0	597.0	585.1
72.5°	525.4	447.8	406.0	376.2	322.4	274.7	250.8	262.7	292.5	310.5	340.4
75°	370.2	340.4	340.4	304.5	232.9	173.1	137.3	113.5	77.6	53.7	59.7
77.5°	209.0	209.0	214.9	185.1	149.2	113.5	83.6	59.7	29.8	12.0	6.0
80°	143.3	155.3	167.2	149.2	125.4	101.5	71.6	41.8	17.9	0.0	0.0
82.5°	143.3	161.2	173.1	149.2	125.4	95.5	71.6	41.8	17.9	6.0	0.0
85°	29.8	35.9	41.8	47.8	71.6	71.6	53.7	35.9	17.9	6.0	0.0
87.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	0.0	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)