

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: P533105

Luminaire Tested: **GALN-SA8C-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533105
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-SA8C-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 30875 lumens
Efficiency: N/A
Efficacy: 72.0 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

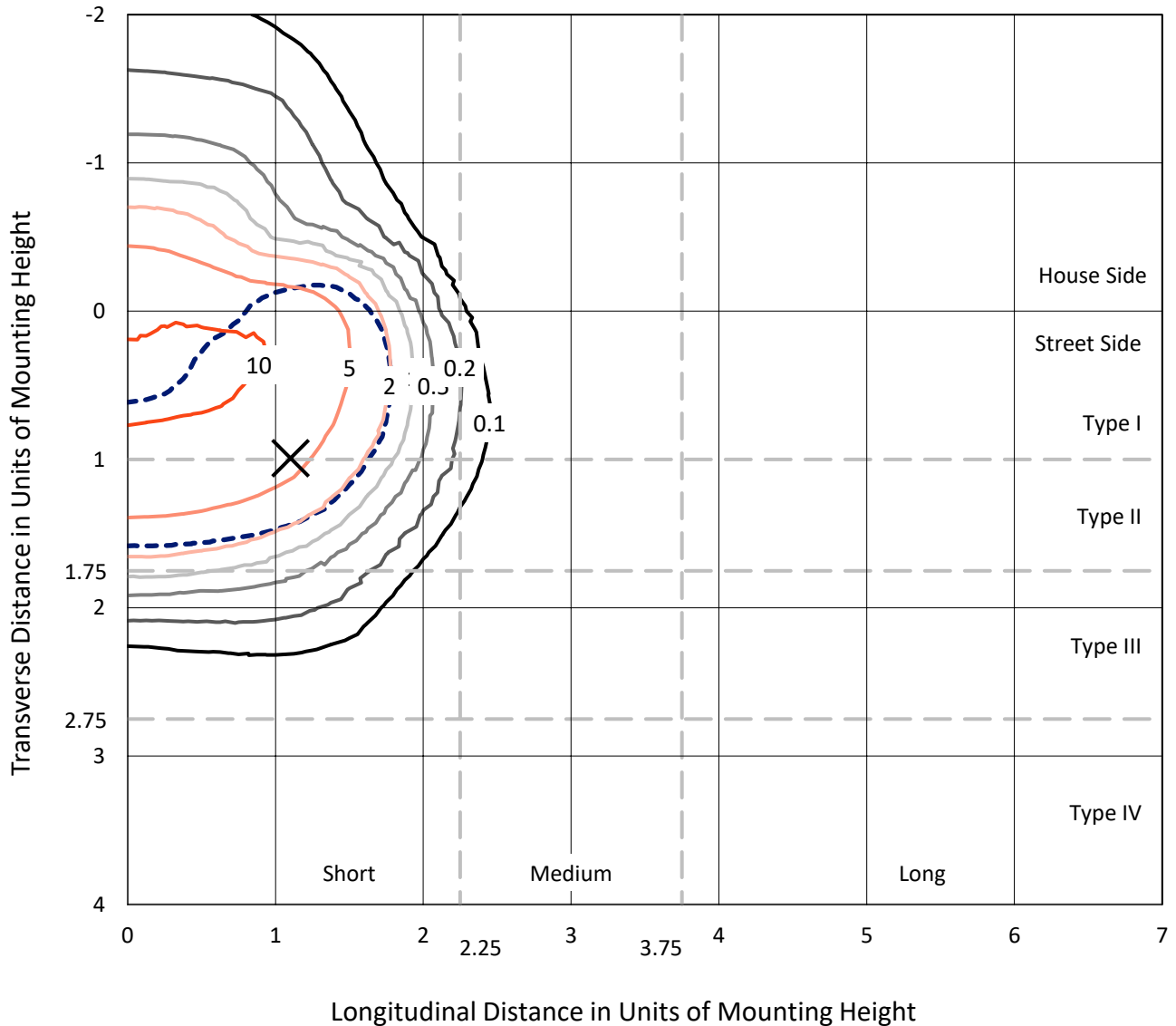
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

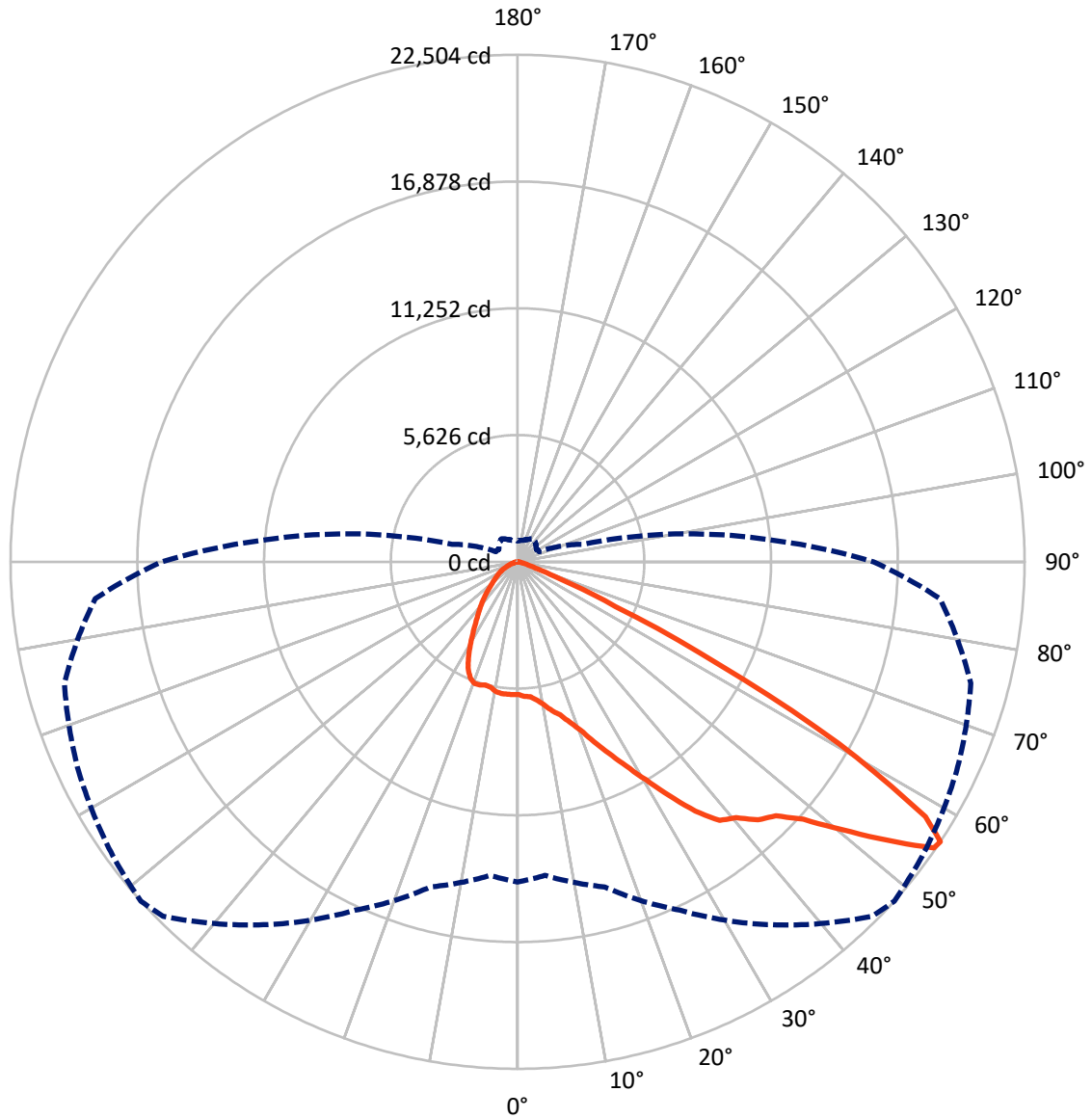
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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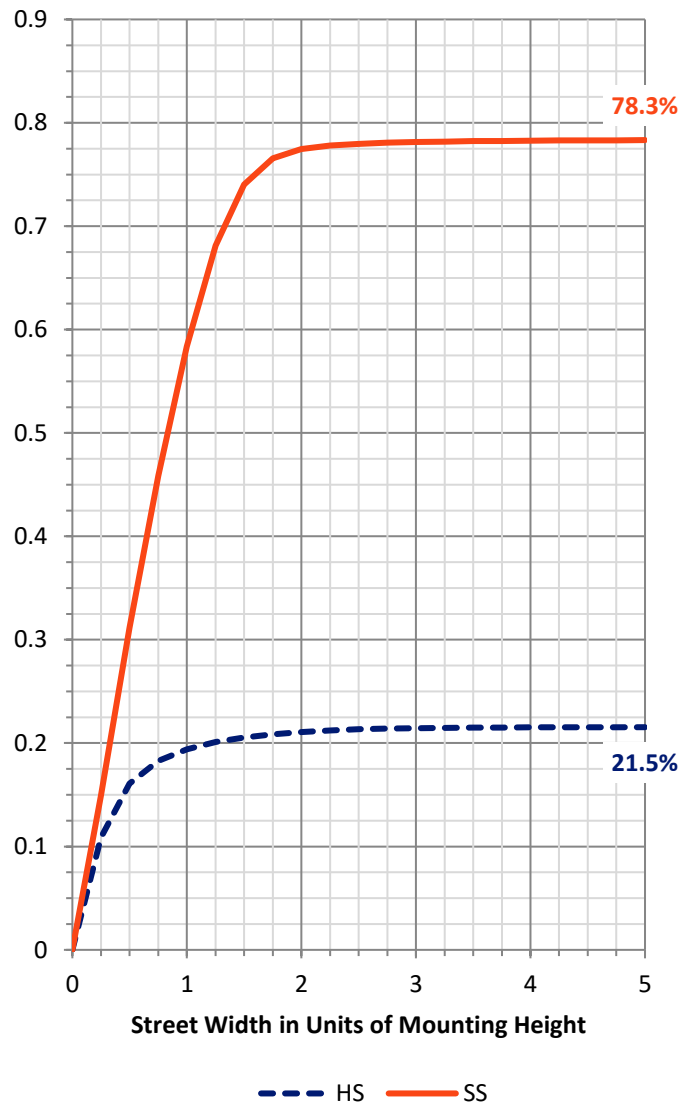
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6714.7	0.0	6714.7
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	24160.3	0.0	24160.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	30875.0	0.0	30875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.4	1.9
10°-20°	1835.8	5.9
20°-30°	3329.8	10.8
30°-40°	5230.5	16.9
40°-50°	7630.3	24.7
50°-60°	9193.1	29.8
60°-70°	2691.7	8.7
70°-80°	341.5	1.1
80°-90°	47.9	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°	30875.0	100.0
0°-180°	30875.0	100.0

Coefficient of Utilization



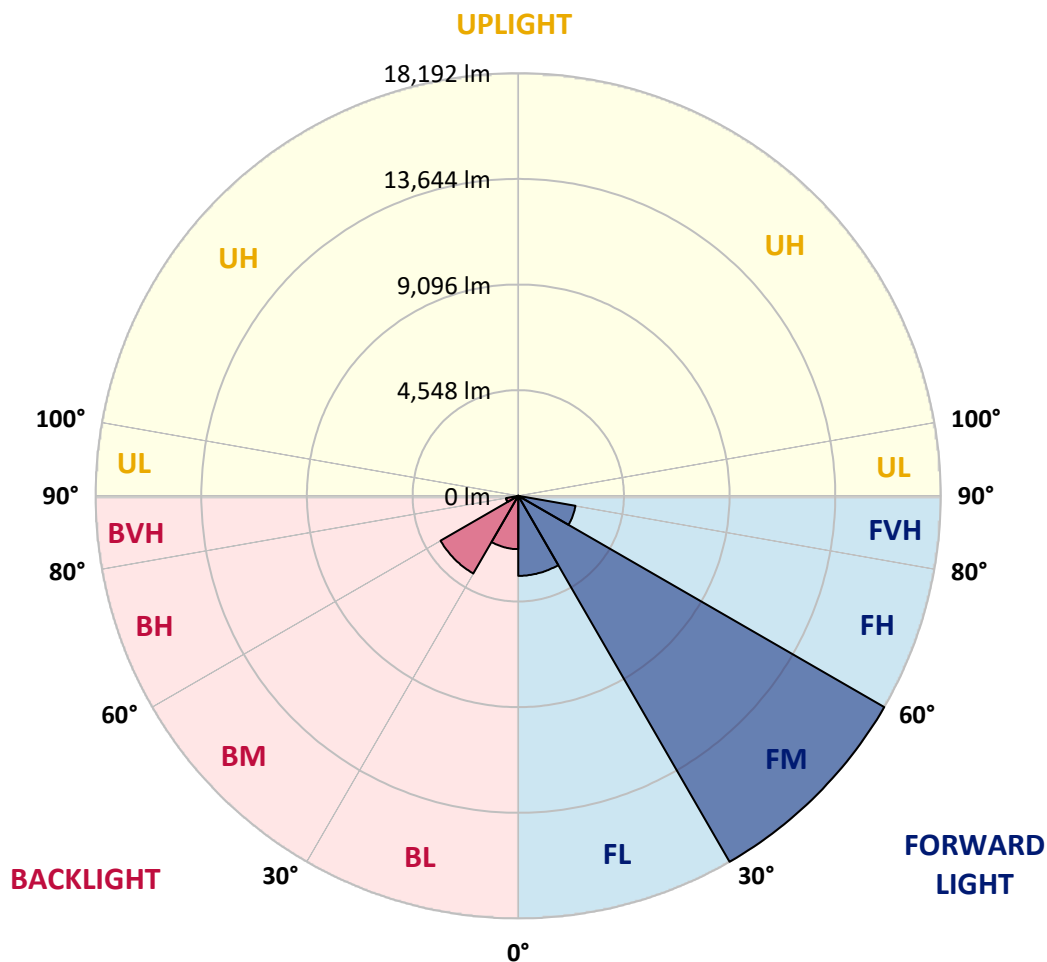
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.0	11.2			
FM (30°-60°)	18191.6	58.9			
FH (60°-80°)	2499.6	8.1			G2/5000
FVH (80°-90°)	24.0	0.1			G1/100
BL (0°-30°)	2295.1	7.4	B3/2500		
BM (30°-60°)	3862.3	12.5	B3/5000		
BH (60°-80°)	533.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	23.8	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°	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1
2.5°	6004.0	5975.8	5975.8	5930.9	5981.5	5959.0	5975.8	5919.6	5975.8	5891.5	5959.0
5°	6032.1	6037.7	6015.2	6043.3	6043.3	6077.0	6020.8	6071.4	6099.5	6037.7	6009.6
7.5°	6178.2	6189.5	6183.8	6161.4	6206.3	6200.7	6195.1	6155.7	6167.0	6144.5	6110.8
10°	6464.9	6459.3	6487.4	6431.2	6397.5	6436.8	6448.1	6386.2	6341.3	6324.4	6217.6
12.5°	6880.9	6813.5	6774.1	6717.9	6734.8	6678.6	6779.7	6672.9	6650.4	6549.3	6442.4
15°	7218.2	7207.0	7212.6	7122.7	7021.5	7044.0	7044.0	6987.7	6954.0	6830.3	6678.6
17.5°	7909.7	7673.6	7724.2	7611.7	7527.4	7521.8	7471.2	7482.5	7392.5	7133.9	6903.4
20°	8449.4	8348.2	8269.5	8078.3	7949.1	7988.4	7965.9	7909.7	7881.6	7544.3	7218.2
22.5°	8932.8	8966.6	8837.3	8786.7	8606.8	8623.7	8668.6	8618.0	8404.4	8055.9	7572.4
25°	9613.1	9573.7	9399.4	9337.6	9169.0	9230.8	9405.1	9365.7	9230.8	8601.2	7847.9
27.5°	10417.0	10282.0	10315.8	10034.7	9871.7	10045.9	10253.9	10450.7	10068.4	9242.0	8173.9
30°	10984.8	10844.2	10833.0	10821.7	10782.4	10984.8	11226.5	11406.4	11097.2	9882.9	8713.6
32.5°	11265.8	11299.6	11395.1	11361.4	11704.3	12120.3	12373.3	12631.9	12244.0	10928.5	9427.6
35°	12013.5	11799.9	12013.5	12036.0	12390.2	13272.8	13593.2	14211.6	14116.0	12407.0	10298.9
37.5°	12452.0	12435.1	12463.3	12676.9	13019.8	14110.4	14565.8	15043.6	14863.7	13295.3	11383.9
40°	13177.2	13222.2	13216.6	13379.6	13756.2	14740.0	14925.6	15313.4	15330.3	14526.4	12980.5
42.5°	14340.9	14161.0	14042.9	14211.6	14740.0	15285.3	15656.4	15577.7	16134.2	16021.8	15032.4
45°	15386.5	15493.3	15319.1	15600.2	15791.3	16083.6	16072.4	16241.0	16949.4	17483.4	16578.3
47.5°	16364.7	16432.2	16516.5	16707.6	17123.6	17168.6	17073.0	16999.9	17978.1	18529.0	17775.7
50°	16949.4	17011.2	17404.7	17747.6	18523.4	18624.6	18680.8	18495.3	19158.7	19220.5	18905.7
52.5°	16791.9	16859.4	17410.3	18540.3	19777.1	20704.6	20536.0	20221.2	20181.8	20423.5	19951.3
55°	15397.8	15335.9	16094.9	17854.4	20170.6	22396.8	22419.2	22087.6	21452.3	21289.3	19793.9
56°	14211.6	13969.9	14936.8	17061.8	19664.6	22250.6	22503.6	22149.4	21553.5	20822.7	18821.4
57.5°	11642.5	11873.0	12834.3	14593.9	17916.3	21199.3	21345.5	21261.2	20811.4	19585.9	16561.5
60°	6420.0	6824.7	7673.6	9826.7	12755.6	16269.1	16387.2	17073.0	17157.4	14998.6	11395.1
62.5°	2726.5	2681.5	3564.1	5149.5	7263.2	9821.1	10040.3	10743.0	10872.3	8646.1	5717.2
65°	1107.5	1169.3	1613.4	2591.6	3839.6	4474.9	4784.0	5014.5	5441.8	3569.8	2108.1
67.5°	730.8	725.2	950.1	1478.5	2068.8	1995.7	1995.7	2108.1	1950.7	1456.0	910.7
70°	522.8	539.7	680.2	1023.1	1287.4	955.7	916.3	877.0	995.0	961.3	736.4
72.5°	342.9	365.4	455.4	612.8	669.0	522.8	522.8	629.6	820.8	775.8	601.5
75°	224.9	230.5	281.1	354.2	331.7	269.8	297.9	421.6	595.9	573.4	427.2
77.5°	151.8	157.4	191.1	230.5	185.5	151.8	163.0	213.6	292.3	292.3	224.9
80°	56.2	61.8	78.7	73.1	84.3	106.8	118.1	146.2	174.3	174.3	151.8
82.5°	0.0	5.6	16.9	39.4	61.8	84.3	95.6	112.4	129.3	146.2	140.5
85°	0.0	5.6	16.9	28.1	45.0	50.6	56.2	39.4	33.7	33.7	28.1
87.5°	0.0	0.0	5.6	5.6	5.6	5.6	5.6	5.6	11.2	5.6	5.6
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°	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1	5897.1
2.5°	5897.1	5891.5	5891.5	5874.7	5908.4	5891.5	5902.8	5897.1	5824.1	5880.3	5840.9
5°	5959.0	5998.3	5936.5	5925.2	5880.3	5897.1	5897.1	5840.9	5891.5	5885.9	5874.7
7.5°	6116.4	6048.9	5981.5	5914.0	5902.8	5885.9	5824.1	5801.6	5840.9	5795.9	5863.4
10°	6183.8	6195.1	6093.9	6004.0	5919.6	5801.6	5717.2	5666.6	5604.8	5672.3	5711.6
12.5°	6493.0	6380.6	6206.3	6065.8	5779.1	5661.0	5576.7	5554.2	5661.0	5683.5	5644.2
15°	6599.8	6583.0	6358.1	6043.3	5745.4	5604.8	5621.7	5576.7	5587.9	5531.7	5543.0
17.5°	6819.1	6628.0	6363.7	5970.2	5739.7	5706.0	5604.8	5424.9	5323.7	5278.8	5318.1
20°	7060.8	6875.3	6493.0	5998.3	5790.3	5700.4	5368.7	5149.5	4941.5	4829.0	4834.6
22.5°	7274.4	7044.0	6436.8	6009.6	5835.3	5464.3	5065.1	4632.3	4373.7	4199.4	4205.0
25°	7533.0	7207.0	6459.3	6032.1	5717.2	5087.6	4514.2	4092.6	3783.4	3665.3	3704.7
27.5°	7679.2	7308.2	6583.0	6082.7	5408.1	4553.6	3935.2	3541.7	3361.8	3305.5	3299.9
30°	8117.7	7533.0	6734.8	5981.5	4890.9	3980.1	3406.7	3165.0	2990.7	2940.1	2951.4
32.5°	8769.8	7943.4	6931.5	5717.2	4362.4	3468.6	3063.8	2883.9	2720.9	2625.3	2614.1
35°	9315.1	8646.1	7139.5	5306.9	3749.7	3075.1	2822.1	2597.2	2349.9	2243.0	2214.9
37.5°	10355.1	9438.8	7094.6	4688.5	3165.0	2782.7	2563.5	2288.0	2074.4	1928.2	1911.4
40°	11738.1	10366.4	6875.3	3935.2	2732.1	2524.1	2288.0	2023.8	1759.6	1635.9	1624.7
42.5°	13418.9	11501.9	6476.2	3170.6	2299.3	2265.5	2051.9	1748.3	1512.2	1422.3	1427.9
45°	14785.0	12474.5	6071.4	2546.6	1978.8	2012.6	1827.0	1540.3	1377.3	1304.2	1304.2
47.5°	15999.3	13132.2	5632.9	2102.5	1680.9	1759.6	1596.6	1427.9	1287.4	1231.1	1219.9
50°	17168.6	13801.2	5194.4	1703.4	1433.5	1512.2	1495.4	1360.4	1248.0	1180.6	1186.2
52.5°	17899.4	13908.0	4637.9	1394.2	1253.6	1343.6	1399.8	1276.1	1152.4	1113.1	1101.8
55°	17005.6	12530.7	3597.9	1146.8	1062.5	1180.6	1287.4	1146.8	1051.3	983.8	978.2
56°	15802.5	11204.0	3007.6	1056.9	1006.3	1135.6	1248.0	1096.2	989.4	950.1	922.0
57.5°	13379.6	9169.0	2220.6	938.8	933.2	1056.9	1186.2	1045.6	922.0	888.2	888.2
60°	8342.6	5160.7	1343.6	787.0	809.5	938.8	1068.1	933.2	820.8	820.8	837.6
62.5°	3800.3	2147.5	815.1	669.0	697.1	809.5	950.1	843.3	781.4	843.3	854.5
65°	1293.0	927.6	590.3	534.1	550.9	669.0	815.1	854.5	848.9	888.2	910.7
67.5°	725.2	595.9	494.7	444.1	432.9	494.7	669.0	854.5	820.8	803.9	815.1
70°	612.8	506.0	438.5	393.5	376.7	399.1	517.2	646.5	579.0	562.2	550.9
72.5°	494.7	421.6	382.3	354.2	303.6	258.6	236.1	247.4	275.5	292.3	320.4
75°	348.5	320.4	320.4	286.7	219.2	163.0	129.3	106.8	73.1	50.6	56.2
77.5°	196.8	196.8	202.4	174.3	140.5	106.8	78.7	56.2	28.1	11.2	5.6
80°	134.9	146.2	157.4	140.5	118.1	95.6	67.5	39.4	16.9	0.0	0.0
82.5°	134.9	151.8	163.0	140.5	118.1	89.9	67.5	39.4	16.9	5.6	0.0
85°	28.1	33.7	39.4	45.0	67.5	67.5	50.6	33.7	16.9	5.6	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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)