

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: P651619

Luminaire Tested: **GALN-SA9D-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651619
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49896.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

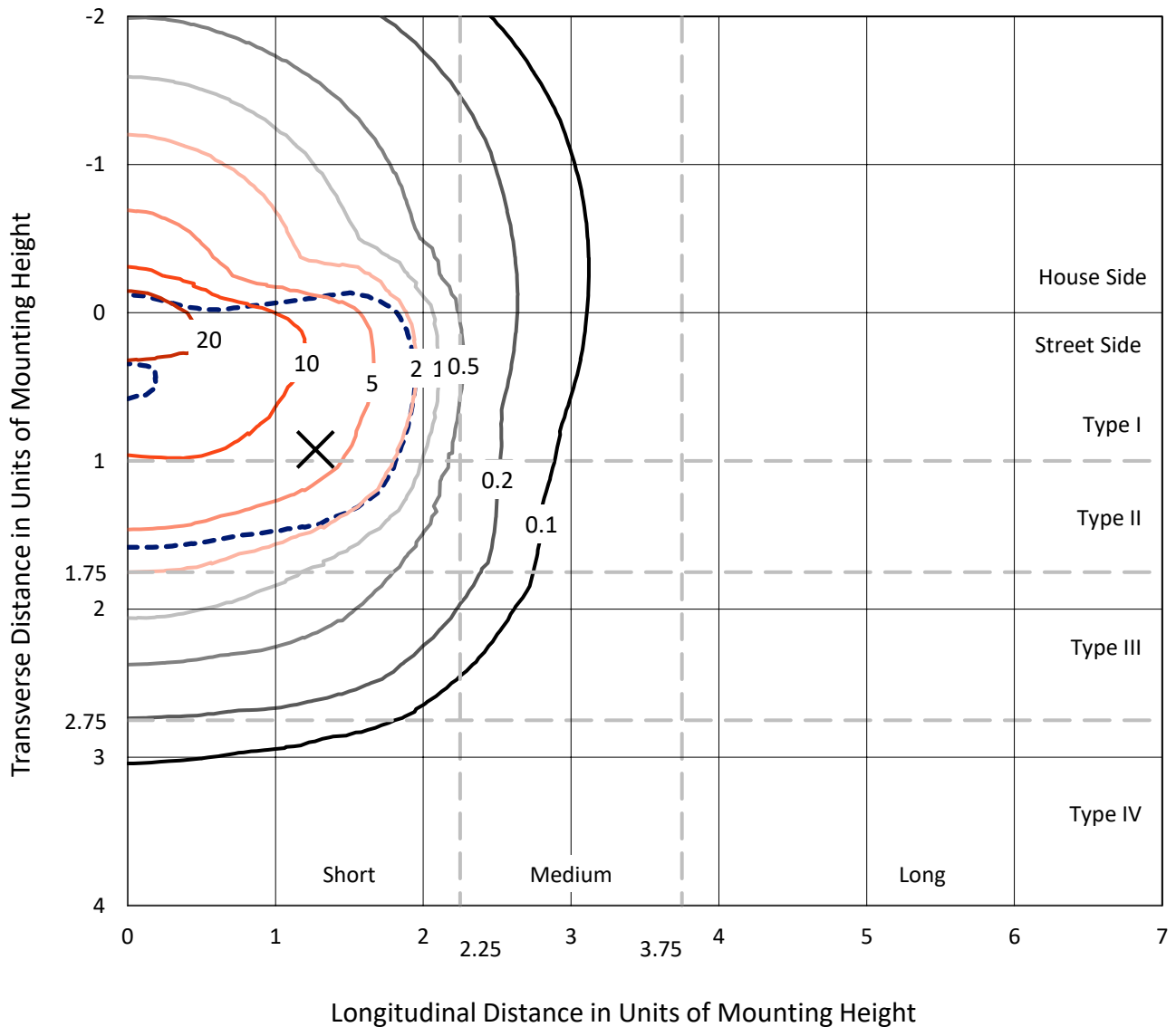
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

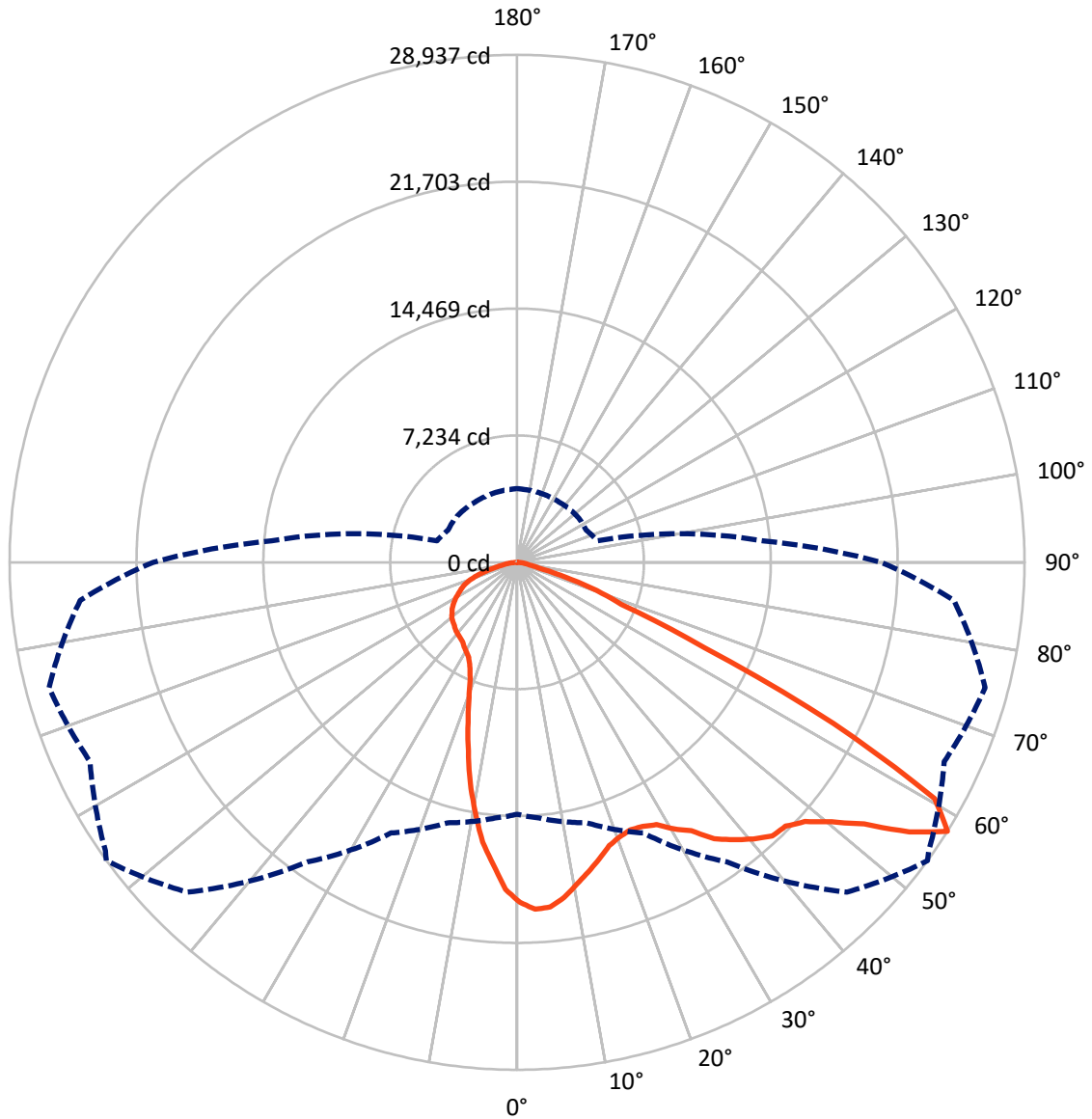
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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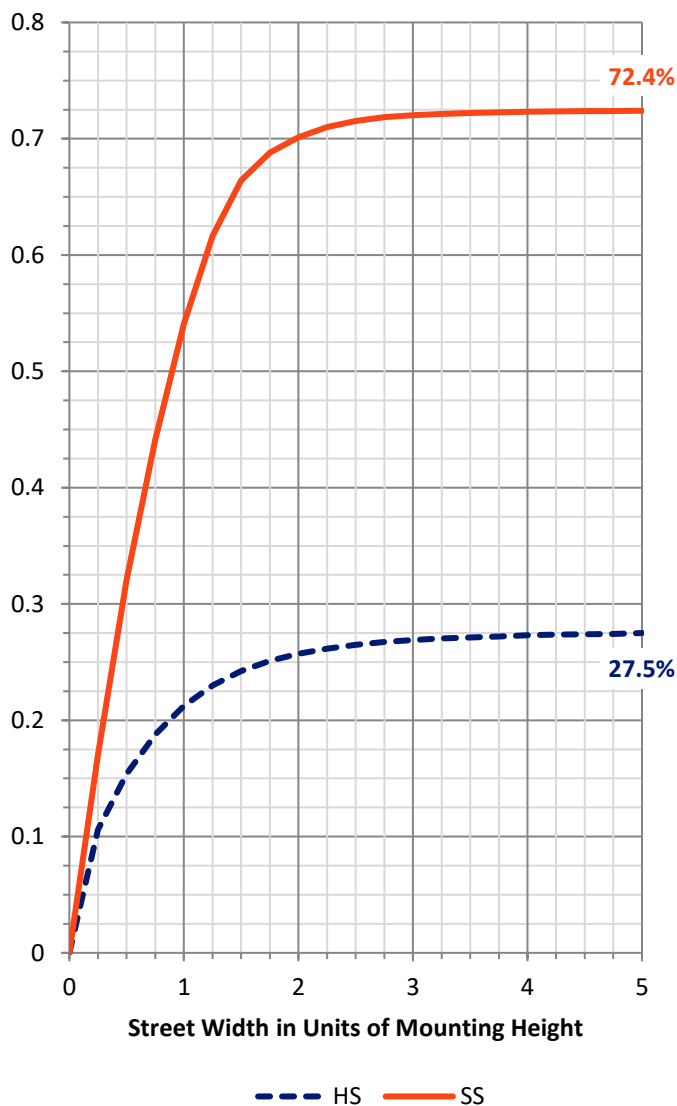
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13804.2	0.0	13804.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	36092.4	0.0	36092.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	49896.5	0.0	49896.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1672.6	3.4
10°-20°	3872.6	7.8
20°-30°	5441.0	10.9
30°-40°	7606.6	15.2
40°-50°	10297.9	20.6
50°-60°	12543.3	25.1
60°-70°	6533.1	13.1
70°-80°	1674.0	3.4
80°-90°	255.4	0.5
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°	49896.5	100.0
0°-180°	49896.5	100.0

Coefficient of Utilization

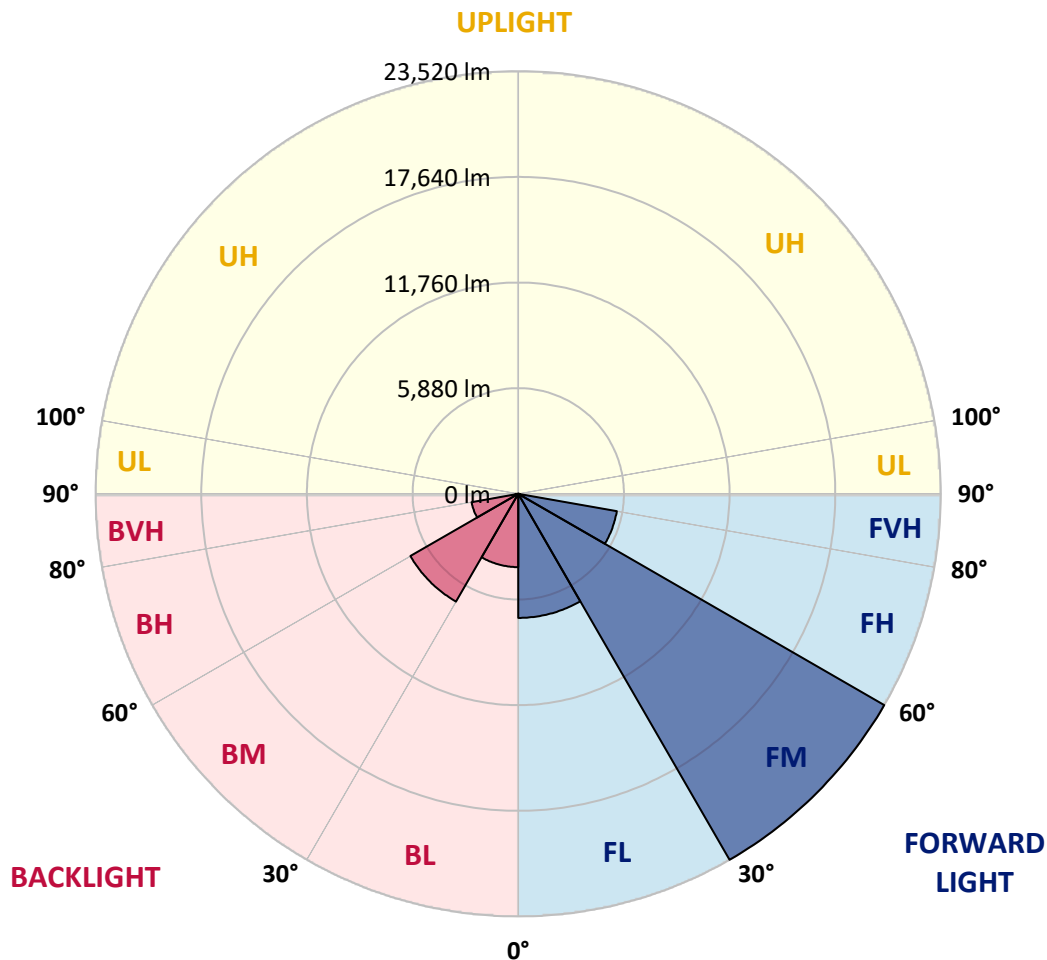


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6906.4	13.8			
FM (30°-60°)	23519.7	47.1			
FH (60°-80°)	5569.9	11.2			G3/7500
FVH (80°-90°)	96.5	0.2			G1/100
BL (0°-30°)	4079.8	8.2	B4/5000		
BM (30°-60°)	6928.2	13.9	B4/8500		
BH (60°-80°)	2637.3	5.3	B4/5000		G4/5000
BVH (80°-90°)	158.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2
2.5°	19945.7	19868.8	19881.7	19984.3	19856.0	19804.7	19804.7	19554.5	19573.8	19400.6	19355.7
5°	19484.0	19304.4	19426.3	19580.2	19605.8	19657.2	19740.5	19676.4	19496.8	19310.9	19009.4
7.5°	18278.3	18438.6	18483.5	18592.5	18823.4	19035.0	19298.0	19118.5	19112.0	18926.0	18746.5
10°	17220.1	17123.9	17367.6	17527.9	17912.7	18265.4	18669.5	18650.3	18746.5	18534.8	18227.0
12.5°	16168.2	16091.3	16206.7	16572.3	17111.1	17624.1	18105.1	17925.5	18438.6	18400.2	17739.5
15°	15052.3	15110.1	15276.8	15616.7	16322.2	16937.9	17547.1	17553.5	18008.9	18162.8	17277.8
17.5°	14269.9	14205.8	14417.3	14924.0	15552.5	16290.1	16982.7	17123.9	17822.9	17912.7	17136.7
20°	13686.3	13776.1	14051.8	14308.4	15033.0	15924.5	16707.0	16758.3	17784.5	18028.2	16912.2
22.5°	13545.1	13493.8	13583.7	14000.5	14597.0	15565.4	16559.5	16751.9	17778.1	17989.7	16488.9
25°	13397.6	13564.4	13558.0	13974.9	14411.0	15276.8	16681.3	16893.0	18117.9	18188.5	16546.7
27.5°	13731.2	13711.9	13891.5	13923.6	14462.3	15353.7	16937.9	17098.2	18682.3	18624.6	16591.5
30°	14064.6	13968.4	14077.5	14455.9	14706.0	15796.3	17643.3	17630.6	19413.5	19375.0	16732.6
32.5°	14475.1	14430.2	14500.8	14834.2	15257.5	16386.3	18239.8	18618.2	20157.4	20401.1	17220.1
35°	14552.1	14738.0	14904.8	15353.7	15956.6	17341.9	19362.2	19676.4	21016.8	21780.0	18150.0
37.5°	15039.5	15110.1	15501.2	16296.6	16848.1	18618.2	20074.0	20272.8	21799.2	22665.0	19131.2
40°	15559.0	15642.3	16232.4	17066.2	17822.9	19451.9	20741.0	20805.2	22049.3	23344.9	19772.6
42.5°	16264.4	16341.4	16925.0	17970.4	18983.7	20163.8	21331.0	21401.6	22030.2	24127.3	20792.3
45°	16995.6	17181.5	17867.8	19054.3	19965.0	20997.6	21465.8	21754.3	22209.7	24826.4	21619.7
47.5°	18021.7	18194.9	18759.3	19920.1	20984.7	21728.7	22087.9	22370.0	22639.4	25435.6	22152.0
50°	19112.0	19144.1	19830.4	20882.1	21664.6	22556.0	23248.7	23344.9	23203.8	26141.1	23056.3
52.5°	19913.7	20016.3	20548.7	21574.8	22742.0	23838.7	24787.9	24890.5	24614.7	26404.1	23364.2
55°	18586.1	18528.4	19394.2	20760.3	23466.8	25749.9	27128.8	27205.8	25640.9	27218.6	24371.0
57.5°	14366.0	14641.9	15379.4	17027.6	20850.1	26596.5	28937.4	28661.6	26872.3	27629.0	25012.3
60°	10441.1	10376.9	10870.8	11973.9	15712.9	22921.6	27359.7	27641.9	25865.4	24903.4	20625.6
62.5°	8504.2	8414.5	8452.9	8491.4	10139.6	15212.7	20253.6	20247.2	19920.1	17899.8	13910.7
65°	6798.2	7009.9	7029.1	7317.7	7529.4	9087.8	11736.6	12365.1	10768.2	8831.3	6407.0
67.5°	5124.3	5047.3	5303.9	6330.0	6727.7	6561.0	6407.0	6477.6	4604.8	3322.1	3129.8
70°	3020.7	2988.7	3296.5	4412.5	5541.2	5214.1	4829.3	4835.8	3161.8	2321.7	2584.6
72.5°	1654.7	1648.3	1712.4	2238.3	3149.0	3270.8	2898.8	2988.7	1885.5	1879.1	2020.3
75°	923.5	904.3	885.1	987.7	1135.2	1199.4	1225.0	1237.8	1295.5	1449.5	1507.2
77.5°	339.9	327.1	327.1	378.4	481.0	602.8	763.2	776.0	917.1	1051.8	1109.5
80°	115.5	128.3	173.2	237.3	320.7	429.7	519.5	532.4	647.7	737.6	756.8
82.5°	70.6	77.0	115.5	166.8	230.9	301.4	384.8	391.2	481.0	538.7	564.4
85°	32.0	38.5	64.2	102.6	147.5	198.8	205.2	205.2	198.8	205.2	192.4
87.5°	0.0	0.0	12.9	12.9	12.9	19.3	25.7	19.3	32.0	38.5	38.5
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°	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2	19394.2
2.5°	19221.1	19150.5	18932.4	18740.0	18682.3	18425.8	18047.4	18092.3	17816.5	17944.8	17810.1
5°	18958.1	18720.8	18162.8	17925.5	17303.4	17021.3	16828.8	16347.9	16123.4	16078.5	15886.1
7.5°	18284.7	18137.2	17438.1	16796.8	16136.2	15571.8	14847.1	14353.3	14000.5	13904.3	13622.1
10°	17752.3	17425.3	16456.9	15482.1	14539.2	13558.0	12615.3	11877.7	11518.5	11101.6	10960.6
12.5°	17226.5	16732.6	15424.3	14173.7	12955.1	11717.3	10575.7	9677.9	8895.4	8709.4	8645.3
15°	16899.4	16040.0	14500.8	12993.6	11262.0	9645.8	8504.2	7914.1	7433.2	7234.4	7375.4
17.5°	16469.7	15469.2	13615.7	11608.3	9703.5	8215.6	7260.0	6894.4	6721.3	6740.5	6682.8
20°	15931.0	14930.4	12454.9	10351.3	8311.8	7125.3	6580.2	6445.5	6471.2	6516.1	6496.8
22.5°	15546.1	14276.3	11614.7	9068.6	7183.1	6522.5	6298.0	6201.8	6285.1	6323.6	6291.6
25°	15251.1	13718.3	10595.0	7933.4	6528.9	6182.5	6079.9	6073.5	6201.8	6253.1	6221.0
27.5°	14981.7	13198.8	9581.7	7067.6	6092.8	5919.6	5887.5	5964.5	6047.9	6099.2	6144.1
30°	14821.4	12801.2	8632.4	6342.9	5874.7	5791.3	5733.6	5804.2	5849.1	5900.4	5874.7
32.5°	14975.4	12519.0	7715.3	5932.4	5695.1	5611.7	5688.7	5643.8	5720.8	5765.6	5695.1
35°	15456.4	12268.9	7061.2	5714.3	5489.9	5521.9	5534.8	5515.5	5547.7	5509.1	5592.5
37.5°	15931.0	12179.1	6458.3	5528.4	5393.7	5393.7	5380.9	5342.4	5406.5	5393.7	5432.2
40°	16533.8	12236.8	5945.3	5329.6	5303.9	5291.1	5239.8	5233.4	5207.7	5214.1	5227.0
42.5°	17059.7	12365.1	5650.3	5201.3	5220.5	5246.2	5149.9	5073.0	5105.1	5041.0	5041.0
45°	17617.7	12480.5	5387.3	5111.5	5092.3	5085.9	5008.9	4964.0	4938.4	4944.7	5002.4
47.5°	18496.4	12647.3	5188.5	4989.7	5002.4	4906.3	4887.1	4829.3	4854.9	4893.4	4899.8
50°	19118.5	13000.0	5034.6	4848.5	4893.4	4829.3	4713.9	4688.2	4688.2	4752.3	4739.5
52.5°	19554.5	13493.8	4887.1	4694.6	4713.9	4662.6	4624.1	4566.4	4527.9	4617.7	4662.6
55°	20888.5	14314.7	4848.5	4566.4	4560.0	4508.6	4438.1	4380.3	4361.2	4374.0	4463.8
57.5°	20760.3	14058.2	4726.7	4341.9	4329.0	4258.5	4187.9	4168.8	4162.3	4175.1	4200.8
60°	16854.5	10383.3	4220.1	4085.3	4066.2	4053.3	3982.7	3905.8	3867.3	3905.8	3873.7
62.5°	11152.9	6952.1	3719.8	3777.5	3790.3	3758.3	3642.8	3565.8	3578.7	3623.6	3553.1
65°	5477.1	4085.3	3373.5	3527.4	3540.2	3450.5	3341.4	3251.6	3206.7	3245.2	3213.1
67.5°	3129.8	3123.3	3091.3	3251.6	3245.2	3155.4	2982.3	2905.3	2828.3	2841.2	2821.9
70°	2655.1	2706.5	2770.6	2866.8	2860.4	2757.8	2552.5	2494.8	2385.8	2373.0	2340.9
72.5°	2090.8	2180.5	2321.7	2392.2	2334.4	2206.2	2071.6	1975.3	1879.1	1821.4	1840.6
75°	1552.1	1680.3	1757.3	1802.2	1712.4	1641.8	1532.8	1417.3	1302.0	1250.7	1231.4
77.5°	1128.8	1167.2	1237.8	1269.8	1212.1	1141.6	1077.5	962.0	853.0	782.5	763.2
80°	788.9	814.5	865.8	865.8	865.8	833.8	750.3	635.0	564.4	500.2	487.4
82.5°	551.5	577.2	628.5	602.8	596.4	558.0	506.7	416.9	339.9	295.0	282.2
85°	192.4	211.7	256.5	307.8	327.1	320.7	288.6	230.9	179.6	147.5	134.6
87.5°	44.9	44.9	51.3	44.9	44.9	51.3	44.9	44.9	44.9	32.0	25.7
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)