

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: P457653

Luminaire Tested: **GALN-SA9A-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31057 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

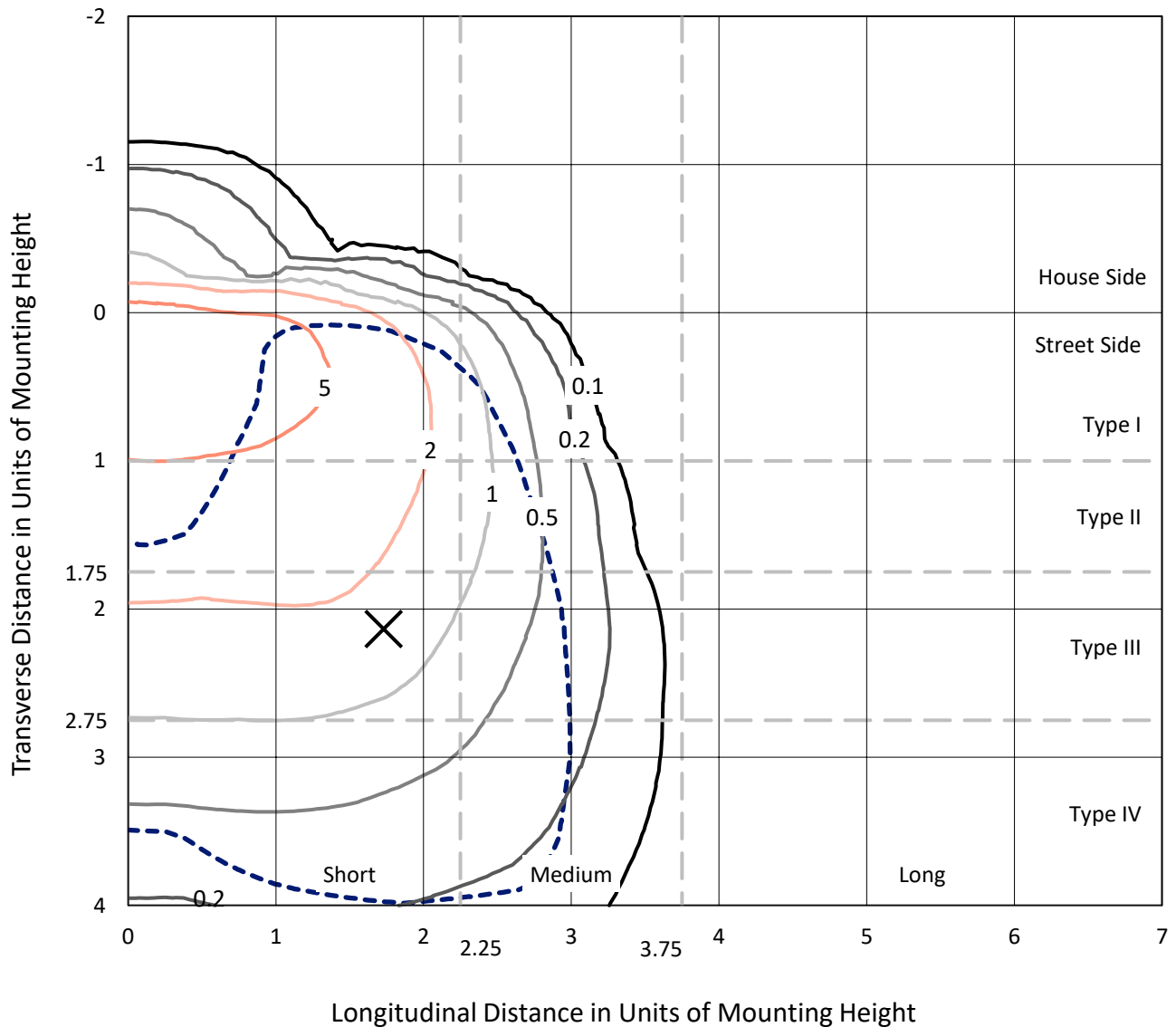
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

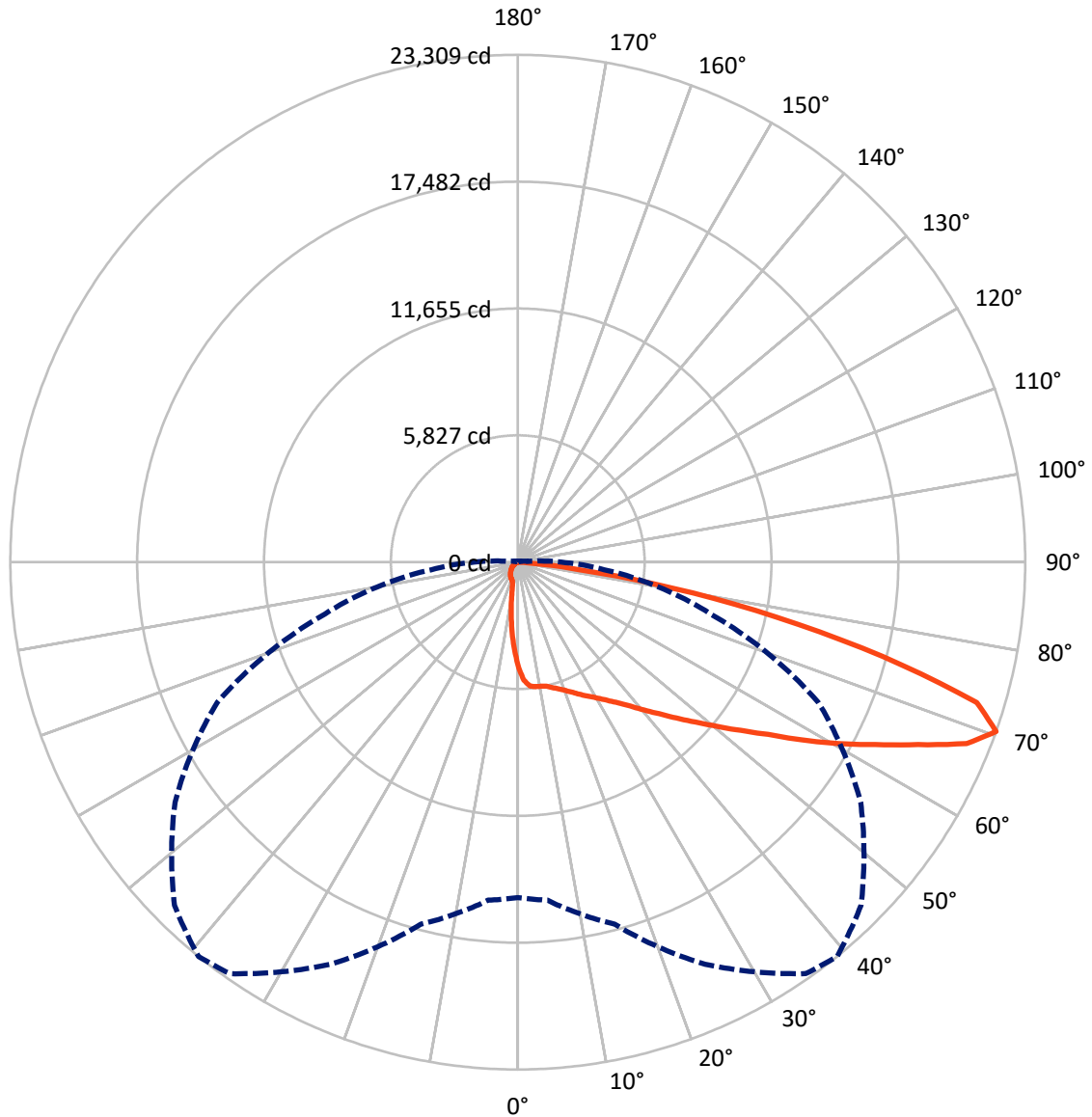
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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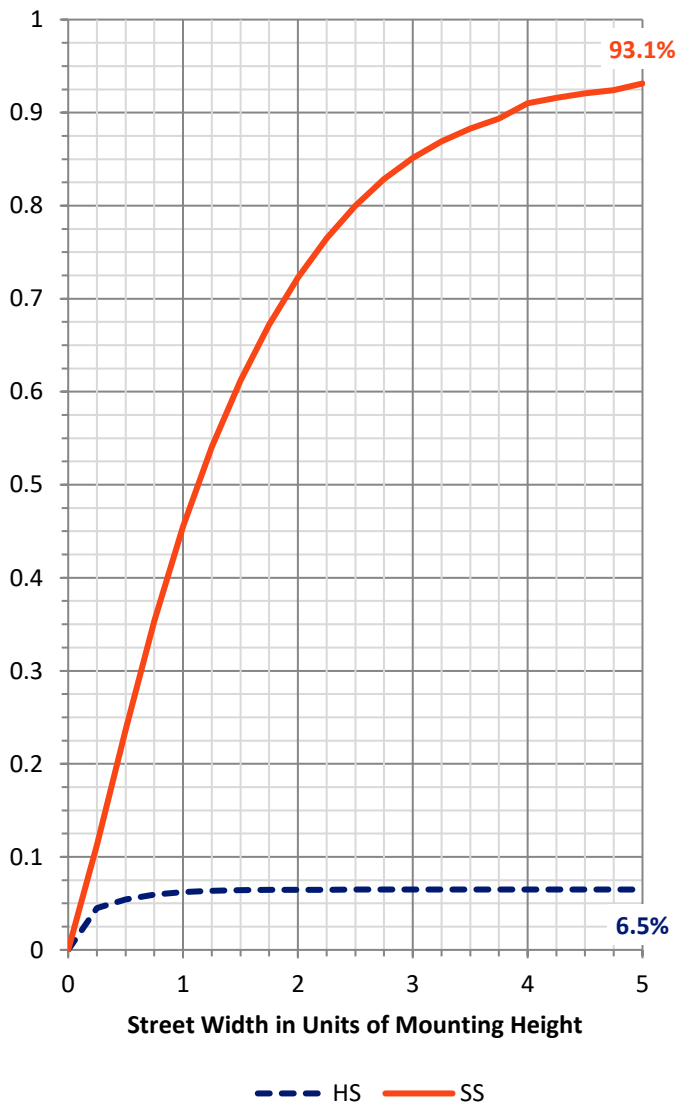
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2025.1	0.0	2025.1
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29031.9	0.0	29031.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	31057.0	0.0	31057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.3	1.3
10°-20°	1074.1	3.5
20°-30°	1799.4	5.8
30°-40°	2790.7	9.0
40°-50°	4422.4	14.2
50°-60°	6482.6	20.9
60°-70°	8309.2	26.8
70°-80°	5221.2	16.8
80°-90°	543.9	1.8
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°	31057.0	100.0
0°-180°	31057.0	100.0



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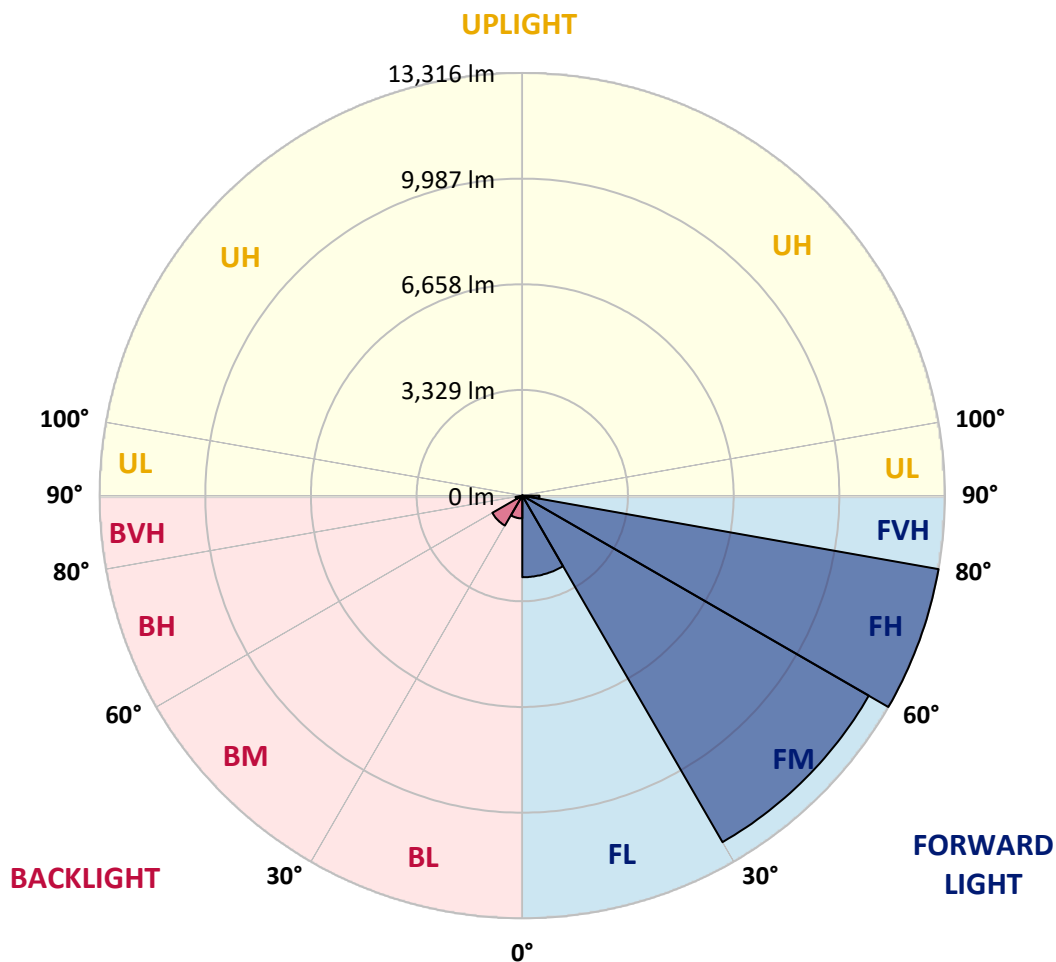
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.8	8.3			
FM (30°-60°)	12606.0	40.6			
FH (60°-80°)	13316.2	42.9			G5
FVH (80°-90°)	539.9	1.7			G4/750
BL (0°-30°)	717.1	2.3	B2/1000		
BM (30°-60°)	1089.8	3.5	B2/2500		
BH (60°-80°)	214.2	0.7	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0
2.5°	5599.4	5580.6	5555.5	5526.3	5442.8	5428.2	5378.1	5271.7	5144.4	5040.0	4896.0
5°	5864.4	5874.8	5856.1	5803.9	5743.4	5707.9	5645.3	5480.4	5315.5	5104.7	4868.9
7.5°	5924.9	5945.8	5922.8	5872.7	5814.3	5776.7	5726.7	5584.7	5392.7	5152.7	4829.3
10°	5918.7	5943.7	5929.1	5883.2	5835.2	5799.7	5745.4	5632.7	5478.3	5225.8	4841.8
12.5°	5908.2	5941.6	5939.5	5916.6	5876.9	5849.8	5816.4	5716.2	5572.2	5332.2	4910.7
15°	5879.0	5920.7	5958.3	5977.1	5979.2	5979.2	5937.4	5831.0	5693.3	5472.0	5000.4
17.5°	5891.5	5939.5	6033.4	6087.7	6125.3	6121.1	6077.3	5962.5	5810.1	5616.1	5094.3
20°	5968.8	6033.4	6164.9	6273.4	6311.0	6298.5	6240.1	6106.5	5933.3	5739.2	5186.1
22.5°	6158.7	6217.1	6382.0	6509.3	6536.4	6503.0	6419.5	6238.0	6081.4	5872.7	5296.7
25°	6442.5	6511.4	6663.7	6759.7	6759.7	6740.9	6624.1	6411.2	6248.4	6058.5	5440.7
27.5°	6786.8	6845.3	6995.5	7081.1	7031.0	6976.8	6859.9	6603.2	6446.7	6292.2	5614.0
30°	7135.4	7172.9	7331.5	7369.1	7316.9	7248.1	7122.8	6866.1	6728.4	6609.5	5864.4
32.5°	7465.1	7546.5	7678.0	7669.6	7598.7	7565.3	7450.5	7177.1	7099.9	7087.4	6215.0
35°	7794.9	7857.5	7974.3	8003.6	7940.9	7934.7	7851.2	7648.8	7650.9	7732.2	6761.8
37.5°	8078.7	8135.0	8272.8	8337.5	8350.0	8381.3	8347.9	8214.3	8404.3	8627.6	7486.0
40°	8316.6	8395.9	8571.2	8683.9	8813.3	8928.1	8934.3	8963.6	9345.5	9729.5	8431.4
42.5°	8502.3	8612.9	8867.6	9076.3	9372.6	9518.7	9635.6	9796.3	10439.1	11013.0	9545.8
45°	8744.4	8871.7	9189.0	9516.6	9979.9	10219.9	10382.7	10812.6	11724.6	12507.2	10689.5
47.5°	9145.1	9211.9	9535.4	10013.3	10622.7	10965.0	11282.2	11933.3	13104.1	13805.3	11641.1
50°	9660.6	9704.4	9948.6	10612.3	11401.1	11851.9	12430.0	13195.9	14535.8	14882.2	12179.6
52.5°	10230.4	10245.0	10428.6	11271.8	12273.5	12841.2	13488.1	14433.5	15702.4	15650.2	12536.5
55°	10891.9	10871.1	11027.6	11987.6	13306.6	13955.6	14709.0	15700.3	16714.6	16194.9	12741.0
57.5°	11649.5	11593.1	11745.5	12937.2	14629.7	15406.1	16172.0	16793.9	17499.3	16652.0	12839.1
60°	12442.5	12329.9	12511.4	14003.6	16188.7	16925.4	17561.9	17728.9	18325.7	17015.1	12670.0
62.5°	13074.9	13077.0	13415.1	15138.9	17791.5	18436.3	18774.4	18924.7	19037.4	16935.8	11781.0
65°	14062.0	14095.4	14636.0	16714.6	19646.8	20206.1	20437.8	19949.4	19068.7	15950.8	10445.3
67.5°	15080.5	15186.9	16176.1	18885.0	21790.1	22240.9	21942.5	20147.7	18217.2	13703.1	7920.1
70°	15412.3	15587.6	17217.5	20379.3	23075.7	23309.4	22299.3	19223.1	15228.7	9161.8	3986.1
72.5°	14122.6	14406.4	16618.6	19834.6	22255.5	22053.1	19951.5	16121.9	9681.5	3479.0	1216.7
75°	9959.0	10084.3	13811.6	16453.7	17900.0	17326.1	15176.5	10393.1	3981.9	976.7	417.4
77.5°	5142.3	5081.8	8214.3	10917.0	12766.0	12171.2	9938.2	5380.2	1508.9	407.0	258.8
80°	2658.8	2702.6	3554.1	5720.4	7792.8	7170.8	5298.8	2493.9	803.5	225.4	198.3
82.5°	1490.1	1398.3	2043.1	2498.1	3643.9	2857.1	2032.7	1765.6	350.6	135.7	187.8
85°	271.3	283.8	1120.7	1350.3	1264.7	803.5	655.3	1179.1	102.3	75.1	131.5
87.5°	4.2	4.2	217.0	388.2	246.3	112.7	206.6	169.0	20.9	29.2	23.0
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°	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0	4846.0
2.5°	4823.0	4743.7	4595.5	4449.4	4263.7	4111.3	4009.1	3902.6	3794.1	3802.5	3827.5
5°	4739.5	4601.8	4309.6	4000.7	3704.4	3437.2	3174.3	2938.5	2842.5	2754.8	2759.0
7.5°	4656.0	4462.0	4034.1	3549.9	3101.2	2646.3	2316.5	2045.2	1901.2	1792.7	1761.4
10°	4618.5	4361.8	3781.6	3115.9	2479.3	1982.6	1559.0	1337.8	1166.6	1112.4	1127.0
12.5°	4635.2	4311.7	3554.1	2723.5	1965.9	1381.6	1085.2	972.5	935.0	928.7	924.5
15°	4666.5	4276.2	3330.8	2289.4	1444.2	1026.8	912.0	891.1	887.0	882.8	884.9
17.5°	4708.2	4244.9	3092.9	1882.5	1108.2	897.4	864.0	853.6	851.5	851.5	851.5
20°	4750.0	4209.4	2827.9	1519.3	924.5	847.3	826.4	820.2	818.1	818.1	816.0
22.5°	4798.0	4178.1	2558.6	1193.8	851.5	811.8	793.1	788.9	786.8	784.7	784.7
25°	4866.8	4138.5	2272.7	976.7	805.6	778.4	759.7	755.5	753.4	745.1	747.1
27.5°	4958.7	4109.3	1978.5	843.1	763.8	736.7	724.2	717.9	713.7	707.5	709.6
30°	5083.9	4084.2	1665.4	770.1	715.8	692.9	680.4	676.2	672.0	665.7	665.7
32.5°	5300.9	4094.6	1335.7	711.7	672.0	644.9	632.4	628.2	624.0	617.7	617.7
35°	5626.5	4155.2	1068.5	661.6	619.8	592.7	580.2	580.2	573.9	565.6	563.5
37.5°	6158.7	4309.6	857.7	613.6	569.7	544.7	530.1	525.9	519.7	507.1	505.0
40°	6786.8	4549.6	722.1	565.6	523.8	498.8	486.3	473.7	457.0	444.5	442.4
42.5°	7575.7	4795.9	626.1	517.6	480.0	457.0	442.4	421.6	396.5	379.8	377.7
45°	8398.0	5021.3	561.4	473.7	438.3	419.5	402.8	369.4	338.1	317.2	315.1
47.5°	9011.6	5063.0	509.2	432.0	402.8	384.0	361.0	319.3	277.6	258.8	252.5
50°	9301.7	4860.6	455.0	390.3	367.3	346.4	317.2	269.2	223.3	200.3	196.2
52.5°	9403.9	4510.0	411.1	352.7	331.8	306.8	271.3	217.0	175.3	152.3	150.3
55°	9362.2	4067.5	371.5	317.2	290.1	260.9	225.4	173.2	129.4	110.6	106.4
57.5°	9143.0	3504.0	331.8	281.7	248.4	219.1	179.5	129.4	87.7	71.0	68.9
60°	8552.4	2736.0	292.2	242.1	210.8	179.5	141.9	91.8	54.3	39.7	39.7
62.5°	7554.9	2030.6	254.6	202.4	177.4	144.0	100.2	58.4	29.2	20.9	18.8
65°	6313.1	1498.4	212.9	171.1	148.2	112.7	71.0	35.5	14.6	6.3	4.2
67.5°	4405.6	924.5	177.4	139.8	121.0	81.4	43.8	14.6	6.3	0.0	0.0
70°	2001.4	440.4	135.7	106.4	91.8	58.4	23.0	8.3	4.2	0.0	0.0
72.5°	621.9	231.7	96.0	77.2	62.6	37.6	12.5	6.3	4.2	0.0	0.0
75°	288.0	148.2	60.5	41.7	35.5	18.8	8.3	4.2	2.1	0.0	0.0
77.5°	215.0	114.8	35.5	23.0	18.8	12.5	6.3	4.2	2.1	0.0	0.0
80°	187.8	58.4	20.9	14.6	10.4	8.3	4.2	2.1	0.0	0.0	0.0
82.5°	169.0	29.2	12.5	8.3	6.3	4.2	2.1	2.1	0.0	0.0	0.0
85°	91.8	16.7	8.3	6.3	4.2	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	16.7	8.3	6.3	4.2	4.2	2.1	2.1	2.1	0.0	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)