

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: P651896

Luminaire Tested: **GALN-SA5A-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19089.9 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

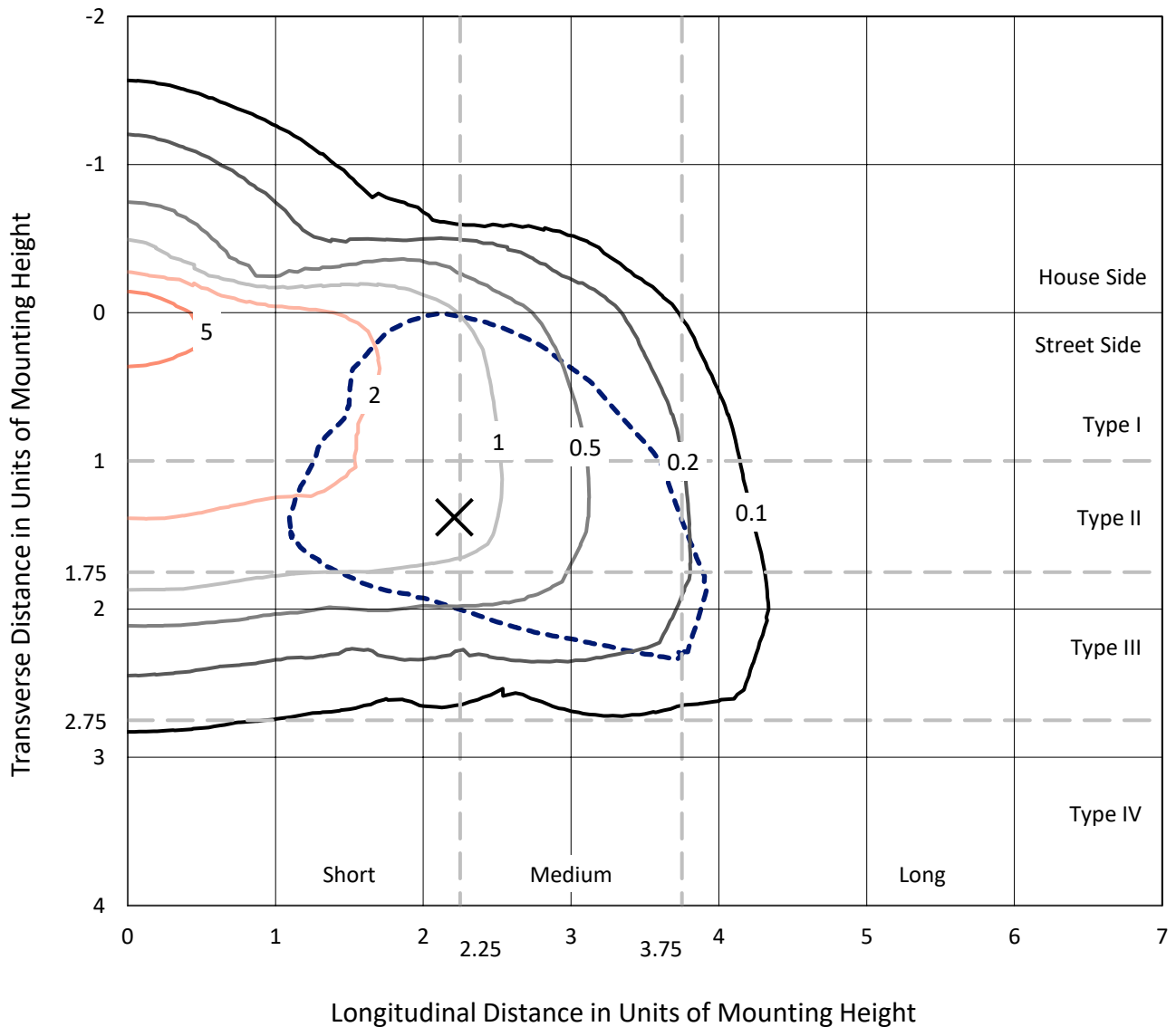
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651896
 CATALOG NUMBER: GALN-SA5A-840-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

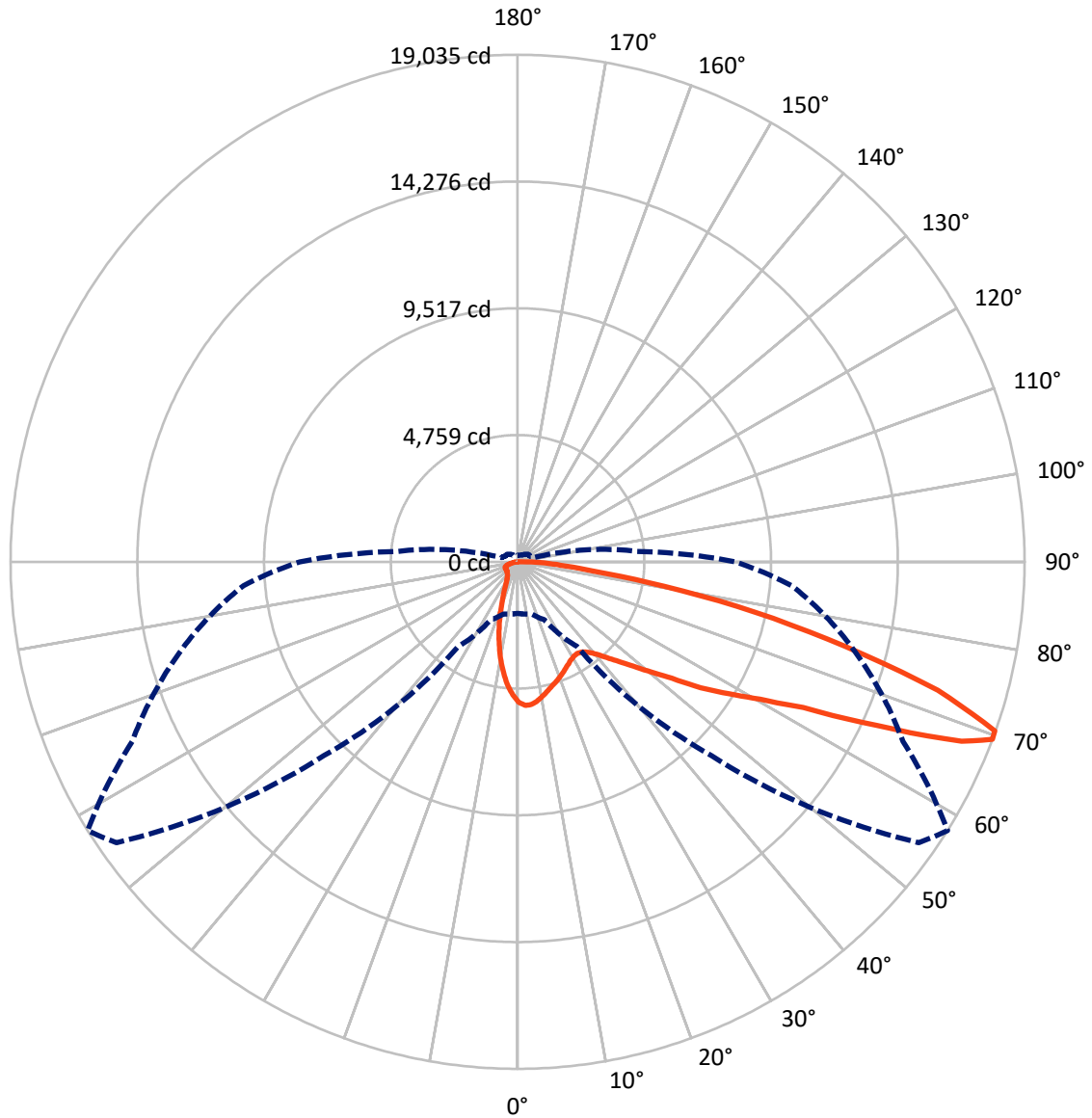
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

REPORT NUMBER: P651896
CATALOG NUMBER: GALN-SA5A-840-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P651896
 CATALOG NUMBER: GALN-SA5A-840-U-SL3

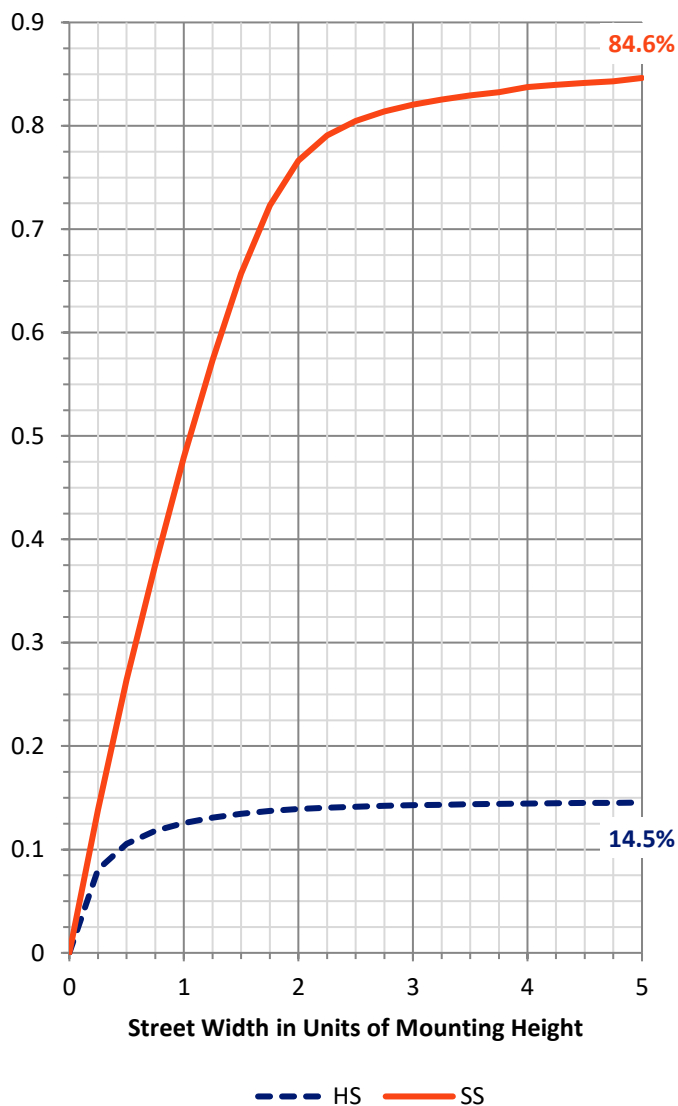
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2797.6	0.0	2797.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16292.2	0.0	16292.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	19089.9	0.0	19089.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.0	2.3
10°-20°	983.7	5.2
20°-30°	1271.0	6.7
30°-40°	1650.8	8.6
40°-50°	2400.0	12.6
50°-60°	3829.6	20.1
60°-70°	5115.9	26.8
70°-80°	2949.1	15.4
80°-90°	441.7	2.3
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°	19089.9	100.0
0°-180°	19089.9	100.0

Coefficient of Utilization



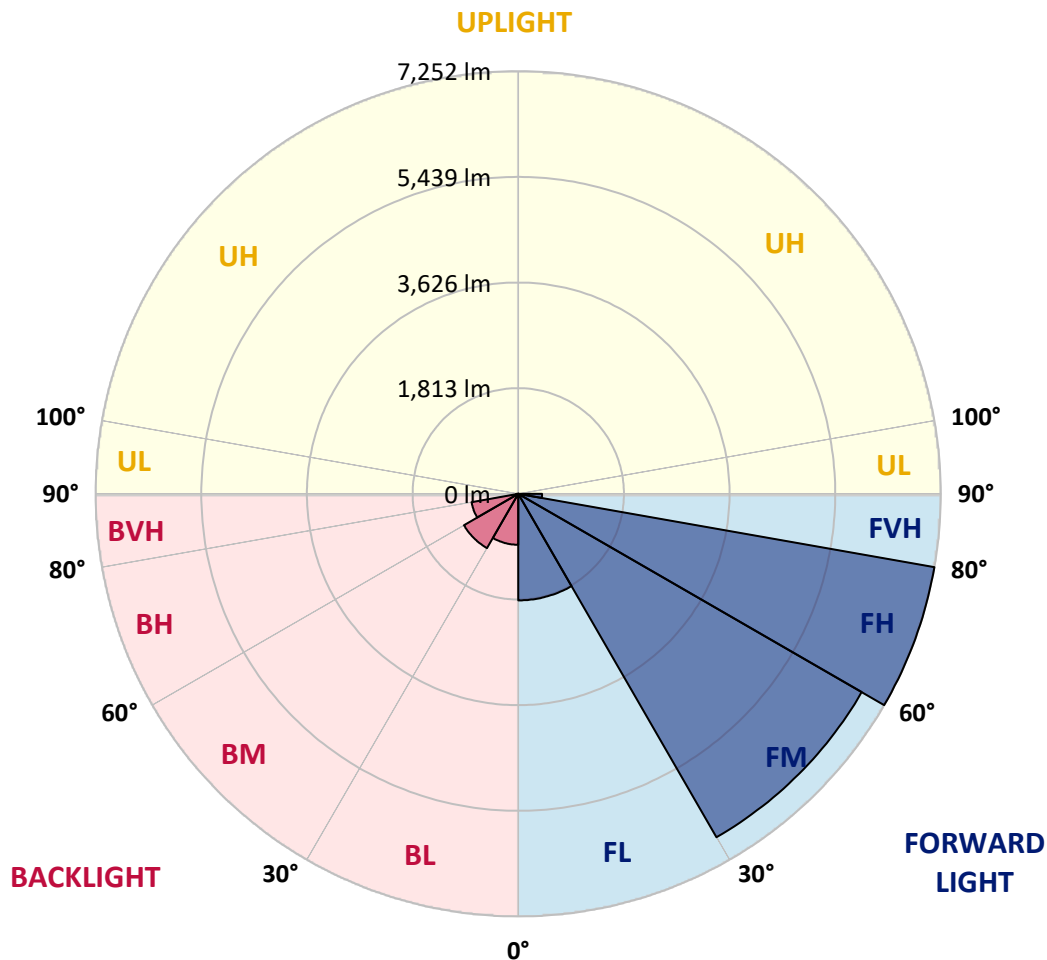
REPORT NUMBER: P651896
 CATALOG NUMBER: GALN-SA5A-840-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.3	9.6			
FM (30°-60°)	6804.5	35.6			
FH (60°-80°)	7251.5	38.0			G3/7500
FVH (80°-90°)	407.9	2.1			G3/500
BL (0°-30°)	874.4	4.6	B2/1000		
BM (30°-60°)	1075.9	5.6	B2/2500		
BH (60°-80°)	813.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P651896

CATALOG NUMBER: GALN-SA5A-840-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3
2.5°	5471.2	5486.1	5481.9	5476.5	5468.0	5444.6	5406.3	5399.9	5375.4	5323.2	5258.3
5°	5387.1	5399.9	5401.0	5408.4	5419.1	5414.8	5387.1	5383.9	5347.8	5277.4	5168.9
7.5°	5098.6	5115.6	5152.9	5194.4	5231.7	5266.8	5275.3	5280.6	5258.3	5177.4	5032.5
10°	4773.9	4790.9	4807.9	4869.7	4961.2	5048.5	5120.9	5130.5	5135.8	5061.3	4884.6
12.5°	4414.0	4449.1	4485.4	4576.9	4699.3	4836.7	4964.4	4984.7	5020.9	4964.4	4756.9
15°	4108.5	4144.7	4196.8	4278.8	4426.8	4624.8	4804.7	4837.8	4909.1	4880.3	4637.6
17.5°	3896.6	3909.4	3945.6	4039.2	4198.9	4407.6	4648.2	4714.2	4828.2	4820.7	4535.4
20°	3729.4	3745.4	3767.8	3825.3	3991.4	4211.7	4502.4	4587.6	4741.9	4767.5	4434.3
22.5°	3659.2	3670.9	3667.7	3698.5	3811.4	4032.8	4354.4	4455.5	4665.3	4731.3	4340.6
25°	3663.5	3674.1	3658.1	3650.7	3717.7	3875.3	4200.0	4328.9	4603.5	4706.8	4255.4
27.5°	3734.8	3742.2	3712.4	3682.6	3688.0	3777.4	4072.3	4214.9	4551.3	4717.4	4184.1
30°	3830.6	3844.5	3825.3	3789.0	3749.7	3754.0	3990.3	4130.8	4526.9	4754.7	4150.0
32.5°	3954.1	3966.8	3958.3	3929.6	3878.5	3822.1	3970.0	4100.0	4529.0	4830.3	4142.5
35°	4084.0	4109.5	4123.3	4121.2	4079.7	3981.8	4049.9	4157.4	4580.1	4957.0	4186.2
37.5°	4230.9	4252.2	4311.8	4350.2	4311.8	4197.9	4229.8	4304.3	4692.9	5140.1	4282.0
40°	4373.5	4405.5	4492.8	4612.0	4597.2	4497.1	4504.5	4553.5	4892.0	5412.7	4469.4
42.5°	4522.6	4560.9	4713.2	4889.9	4925.1	4847.4	4867.5	4911.2	5175.3	5790.6	4790.9
45°	4714.2	4760.1	4947.4	5167.8	5306.2	5258.3	5315.8	5337.1	5554.2	6282.4	5214.6
47.5°	4961.2	5014.5	5245.5	5520.2	5716.1	5759.8	5859.8	5847.1	6023.7	6864.8	5764.0
50°	5377.5	5407.3	5625.6	5905.6	6175.0	6371.9	6480.5	6500.8	6606.1	7431.2	6378.3
52.5°	5872.6	5899.2	6056.8	6301.6	6639.1	7056.5	7324.8	7258.8	7284.3	8121.1	7096.9
55°	6429.4	6474.1	6574.2	6737.1	7174.7	7788.9	8327.7	8343.6	8060.4	8781.2	7785.7
57.5°	6860.5	6936.1	7107.5	7339.7	7894.4	8603.4	9327.4	9338.0	8976.0	9486.0	8545.9
60°	6643.4	6732.8	7124.6	7689.9	8838.7	10024.7	10521.9	10461.2	9867.1	10288.7	9473.2
62.5°	5706.5	5722.5	6292.0	7175.7	9129.3	11926.1	12299.9	12043.3	11056.4	11306.6	10415.4
65°	3693.3	3797.6	4249.0	5487.2	8174.4	12981.3	15415.0	14822.0	12723.6	12461.7	11204.3
67.5°	2331.6	2304.9	2492.3	3133.2	5622.4	12051.8	18073.4	17979.7	14903.9	13191.0	11015.9
69°	1933.4	1963.2	2027.1	2401.8	3868.9	10289.8	18387.5	19034.8	15961.2	13133.5	10331.3
70°	1753.5	1767.3	1834.4	2129.3	2985.3	8618.3	17872.2	19006.1	16376.4	12892.9	9835.2
72.5°	1391.5	1390.4	1505.4	1771.6	2231.5	4919.8	14675.1	16500.9	15912.2	11772.8	8126.4
75°	1057.2	1074.2	1200.9	1499.0	2055.8	2688.3	10240.9	12707.6	12708.7	9298.6	5070.9
77.5°	762.3	773.0	920.9	1258.4	1936.6	2179.4	6821.2	9114.4	8568.3	4260.7	1593.8
80°	499.3	505.7	618.6	996.5	1746.0	2055.8	4044.6	5578.8	4041.4	1130.6	527.0
82.5°	273.6	305.5	377.9	645.2	1401.1	1899.3	2458.2	2823.4	1516.1	503.6	274.7
85°	137.3	145.8	212.9	376.9	915.6	1571.4	1711.9	1619.3	782.6	250.2	142.6
87.5°	40.5	51.1	88.4	145.8	371.6	818.7	952.9	854.9	301.3	90.5	29.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651896
 CATALOG NUMBER: GALN-SA5A-840-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3	5275.3
2.5°	5231.7	5212.5	5127.3	5050.7	4980.4	4905.9	4843.1	4787.7	4793.0	4794.1	4737.7
5°	5112.4	5068.8	4907.0	4755.8	4628.0	4466.2	4327.8	4238.4	4193.6	4134.0	4155.3
7.5°	4950.6	4866.5	4641.8	4390.6	4155.3	3945.6	3717.7	3561.2	3461.1	3364.3	3377.0
10°	4783.4	4648.2	4321.4	3989.2	3684.8	3349.4	3058.7	2809.6	2624.3	2555.1	2509.4
12.5°	4612.0	4434.3	4019.1	3577.2	3156.7	2755.3	2343.3	2076.1	1871.6	1763.1	1776.9
15°	4455.5	4239.4	3703.9	3165.2	2619.0	2141.0	1730.0	1475.6	1332.9	1303.1	1320.2
17.5°	4310.7	4027.5	3409.0	2764.9	2127.1	1605.5	1299.9	1156.2	1098.7	1082.7	1081.7
20°	4161.7	3847.7	3077.9	2336.9	1657.7	1244.6	1066.8	999.7	989.0	995.4	996.5
22.5°	4010.6	3625.1	2737.2	1912.1	1320.2	1017.8	932.7	914.5	923.1	938.0	940.1
25°	3871.0	3429.3	2409.3	1539.5	1054.0	894.3	852.8	852.8	871.9	894.3	895.3
27.5°	3756.1	3239.7	2082.5	1222.2	882.6	804.8	791.0	798.4	825.1	842.1	843.2
30°	3661.3	3063.0	1773.7	979.5	776.2	733.5	730.3	743.1	762.3	778.3	779.4
32.5°	3590.0	2907.6	1485.2	823.0	702.7	679.3	678.2	687.8	698.4	702.7	706.9
35°	3562.3	2778.7	1221.1	723.9	653.7	638.8	638.8	637.7	642.0	644.1	646.2
37.5°	3584.7	2679.7	1016.8	660.1	617.5	606.9	600.5	594.1	592.0	592.0	593.0
40°	3679.4	2627.5	864.5	618.6	592.0	576.0	564.2	556.8	549.3	551.5	553.6
42.5°	3880.6	2637.1	761.2	590.9	569.6	547.2	530.2	521.7	516.4	522.8	521.7
45°	4201.1	2732.9	695.3	571.7	547.2	518.5	502.5	494.0	494.0	503.6	506.8
47.5°	4649.3	2916.1	660.1	556.8	530.2	496.1	480.1	473.7	475.9	491.9	492.9
50°	5196.5	3234.4	653.7	549.3	521.7	480.1	462.0	455.7	461.0	478.0	480.1
52.5°	5800.2	3644.3	684.6	550.4	514.2	470.5	447.2	437.6	442.9	456.7	461.0
55°	6515.6	4157.4	764.4	554.6	503.6	465.2	436.5	415.2	421.6	431.2	432.3
57.5°	7246.0	4804.7	904.9	555.7	495.1	455.7	418.4	390.7	390.7	397.1	400.3
60°	8138.2	5509.6	1090.2	556.8	496.1	441.9	393.9	363.1	358.8	362.0	363.1
62.5°	9023.9	6099.4	1121.1	553.6	506.8	428.0	367.3	335.4	327.9	326.8	324.7
65°	9414.7	5989.7	918.8	538.7	518.5	419.5	346.0	308.7	295.9	291.7	291.7
67.5°	8778.0	5066.7	691.0	518.5	511.0	410.9	325.8	286.4	271.5	263.0	263.0
69°	8179.7	4506.7	620.7	504.7	491.9	397.1	313.0	274.7	256.6	247.0	243.8
70°	7717.6	4121.2	590.9	492.9	473.7	381.1	303.4	266.2	245.9	235.3	233.1
72.5°	6159.0	3233.3	517.4	448.3	403.5	320.4	269.4	239.5	220.3	208.7	205.5
75°	3549.5	1752.4	429.1	389.6	324.7	249.1	227.8	208.7	193.8	183.1	179.9
77.5°	1092.3	677.1	310.9	307.7	238.5	192.7	182.1	174.6	164.0	152.2	150.1
80°	459.9	345.0	210.8	207.6	158.6	134.1	130.9	129.9	125.6	116.1	112.9
82.5°	252.3	194.9	146.9	127.7	95.8	77.7	80.9	82.0	78.8	69.2	62.8
85°	123.5	106.5	71.3	57.5	43.6	27.7	26.6	32.0	29.8	21.3	23.5
87.5°	24.5	29.8	19.2	8.5	4.3	0.0	0.0	0.0	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)