

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: P646891

Luminaire Tested: **GALN-SA4C-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646891
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-SA4C-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA 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: 21584.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

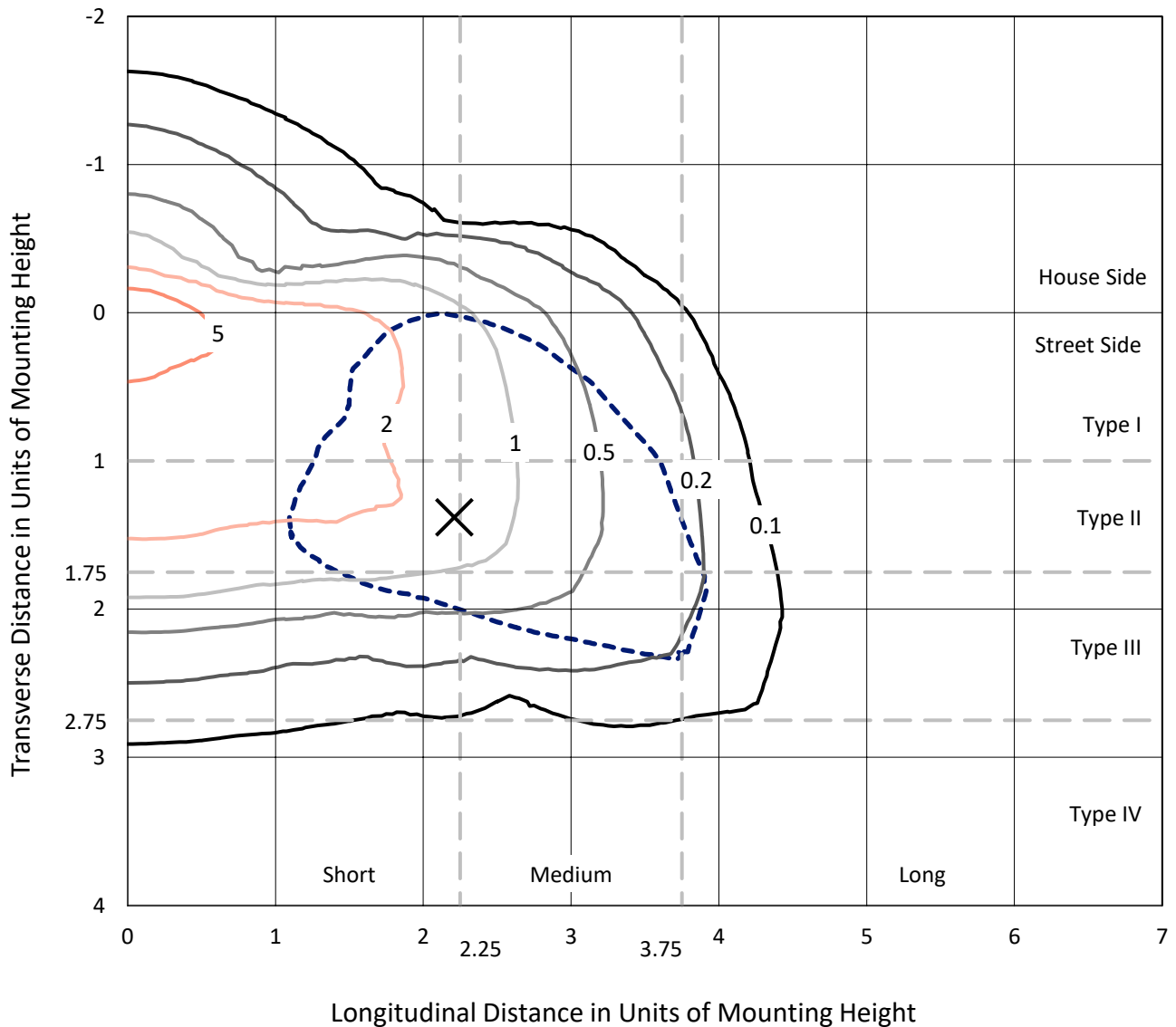
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

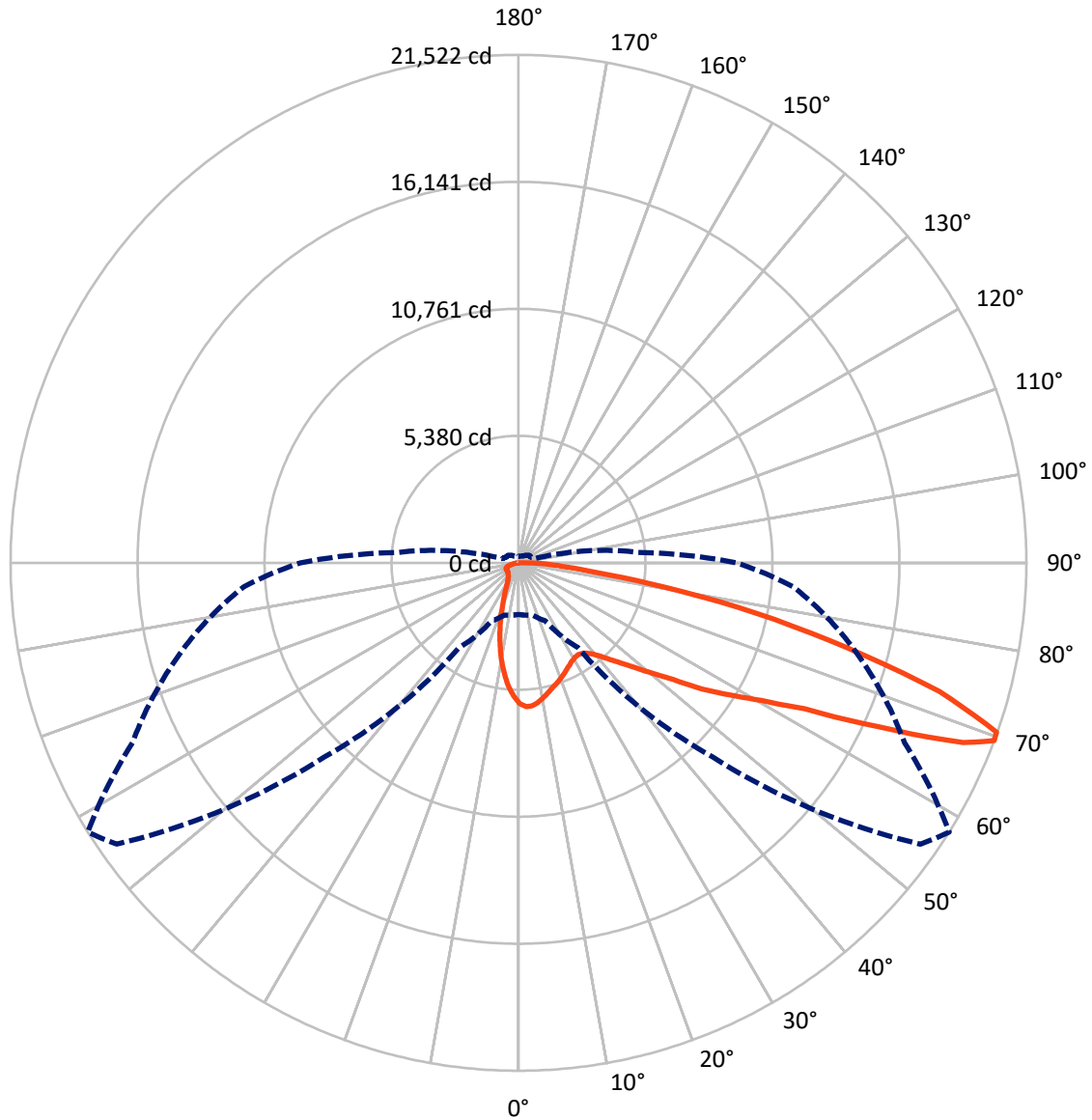
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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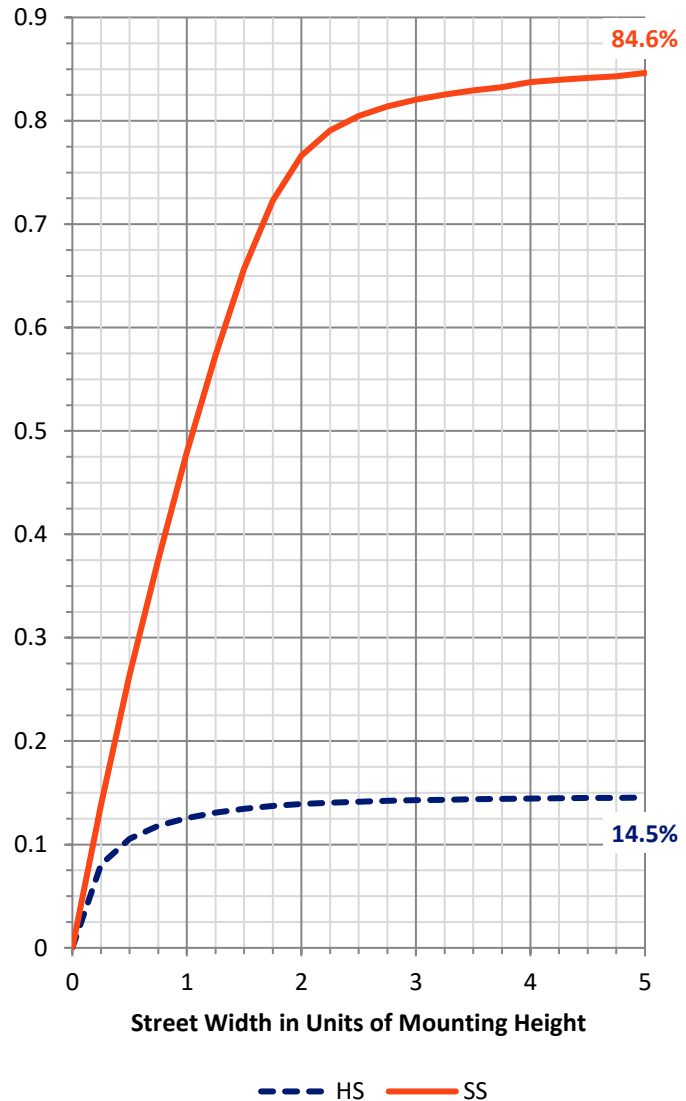
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3163.2	0.0	3163.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	18421.0	0.0	18421.0
	% Fixture	85.3	0.0	85.3
Total	Lumens	21584.2	0.0	21584.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.5	2.3
10°-20°	1112.3	5.2
20°-30°	1437.1	6.7
30°-40°	1866.5	8.6
40°-50°	2713.6	12.6
50°-60°	4330.0	20.1
60°-70°	5784.3	26.8
70°-80°	3334.4	15.4
80°-90°	499.4	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°	21584.2	100.0
0°-180°	21584.2	100.0

Coefficient of Utilization

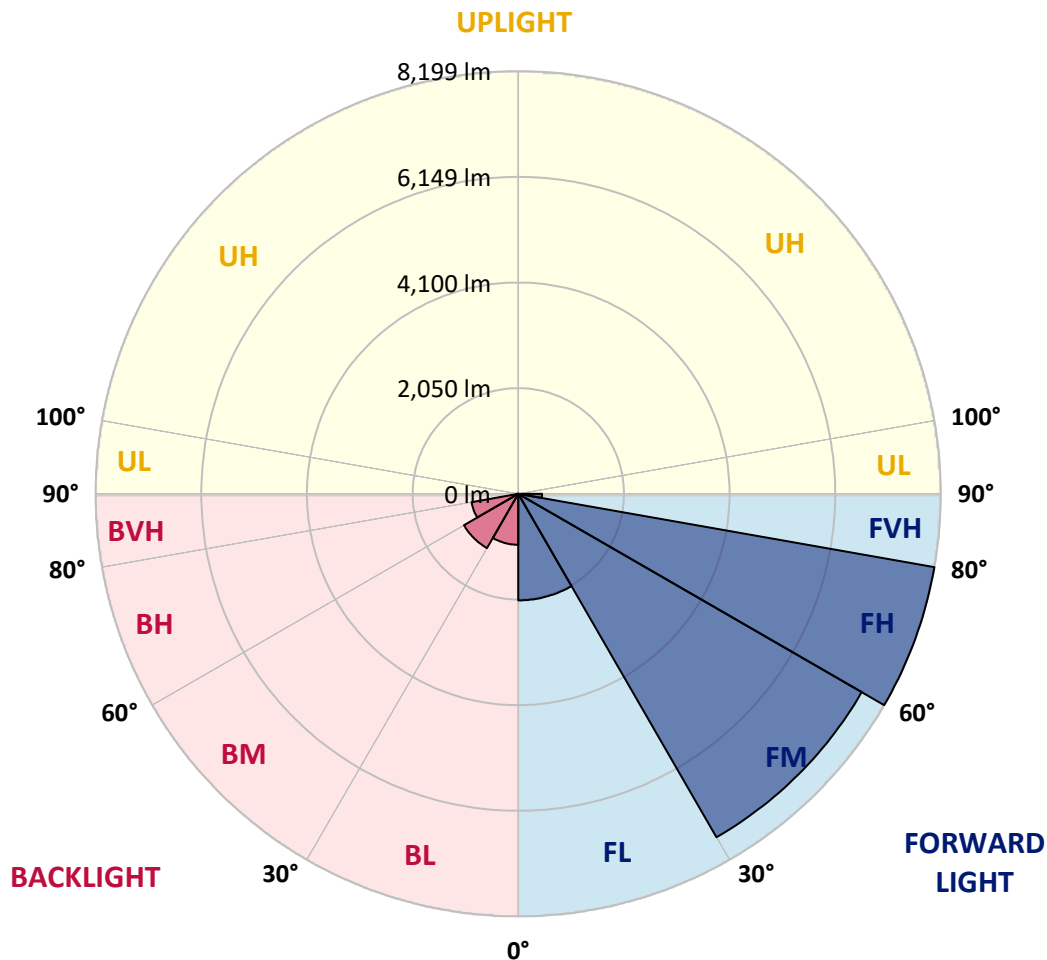


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2067.2	9.6			
FM (30°-60°)	7693.6	35.6			
FH (60°-80°)	8199.0	38.0			G4/12000
FVH (80°-90°)	461.2	2.1			G3/500
BL (0°-30°)	988.7	4.6	B2/1000		
BM (30°-60°)	1216.4	5.6	B2/2500		
BH (60°-80°)	919.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	38.3	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6
2.5°	6186.1	6202.9	6198.1	6192.1	6182.5	6156.0	6112.6	6105.4	6077.7	6018.8	5945.3
5°	6091.0	6105.4	6106.6	6115.1	6127.1	6122.3	6091.0	6087.4	6046.5	5967.0	5844.2
7.5°	5764.8	5784.0	5826.1	5873.1	5915.3	5954.9	5964.6	5970.6	5945.3	5853.9	5690.1
10°	5397.6	5416.9	5436.1	5506.0	5609.5	5708.2	5790.1	5800.9	5806.9	5722.6	5522.8
12.5°	4990.8	5030.5	5071.4	5174.9	5313.4	5468.6	5613.1	5636.0	5676.9	5613.1	5378.3
15°	4645.3	4686.3	4745.2	4837.9	5005.2	5229.1	5432.5	5469.9	5550.5	5518.0	5243.5
17.5°	4405.7	4420.2	4461.1	4567.1	4747.6	4983.6	5255.6	5330.2	5459.0	5450.6	5128.0
20°	4216.8	4234.8	4260.1	4325.1	4512.9	4762.0	5090.7	5187.0	5361.5	5390.4	5013.6
22.5°	4137.3	4150.5	4146.9	4181.8	4309.5	4559.8	4923.3	5037.7	5274.8	5349.5	4907.7
25°	4142.1	4154.1	4136.1	4127.7	4203.5	4381.7	4748.8	4894.5	5205.1	5321.8	4811.4
27.5°	4222.8	4231.2	4197.5	4163.8	4169.8	4271.0	4604.4	4765.7	5146.0	5333.9	4730.7
30°	4331.1	4346.7	4325.1	4284.2	4239.6	4244.4	4511.6	4670.6	5118.4	5376.0	4692.2
32.5°	4470.8	4485.2	4475.5	4443.1	4385.3	4321.5	4488.8	4635.7	5120.7	5461.4	4683.8
35°	4617.6	4646.5	4662.1	4659.7	4612.8	4502.0	4579.1	4700.7	5178.5	5604.7	4733.2
37.5°	4783.7	4807.8	4875.2	4918.6	4875.2	4746.4	4782.5	4866.8	5306.2	5811.7	4841.5
40°	4945.0	4981.1	5079.9	5214.7	5197.8	5084.6	5093.1	5148.5	5531.3	6119.8	5053.3
42.5°	5113.5	5156.9	5329.0	5528.8	5568.5	5480.7	5503.6	5553.0	5851.4	6547.2	5416.9
45°	5330.2	5382.0	5593.8	5843.1	5999.5	5945.3	6010.3	6034.4	6280.0	7103.4	5896.0
47.5°	5609.5	5669.7	5930.9	6241.4	6463.0	6512.3	6625.4	6611.0	6810.8	7761.8	6517.1
50°	6080.2	6113.9	6360.6	6677.2	6981.8	7204.5	7327.2	7350.1	7469.3	8402.2	7211.7
52.5°	6639.9	6670.0	6848.2	7125.0	7506.6	7978.5	8281.9	8207.2	8236.1	9182.2	8024.3
55°	7269.5	7320.0	7433.2	7617.3	8112.1	8806.6	9415.7	9433.8	9113.7	9928.6	8803.0
57.5°	7757.0	7842.4	8036.2	8298.7	8925.8	9727.5	10546.1	10558.1	10148.9	10725.5	9662.5
60°	7511.4	7612.6	8055.5	8694.7	9993.6	11334.6	11896.7	11828.1	11156.4	11633.1	10711.0
62.5°	6452.2	6470.2	7114.2	8113.3	10322.2	13484.4	13906.9	13616.8	12501.0	12783.9	11776.3
65°	4175.8	4293.8	4804.2	6204.2	9242.5	14677.4	17429.2	16758.7	14386.1	14089.9	12668.3
67.5°	2636.2	2606.1	2818.0	3542.7	6357.0	13626.5	20435.0	20329.0	16851.3	14914.5	12455.3
69°	2186.0	2219.7	2291.9	2715.7	4374.5	11634.3	20790.1	21521.9	18046.7	14849.5	11681.3
70°	1982.6	1998.2	2074.1	2407.5	3375.4	9744.4	20207.4	21489.4	18516.1	14577.5	11120.2
72.5°	1573.3	1572.1	1702.1	2003.1	2523.1	5562.5	16592.6	18657.0	17991.3	13311.1	9188.3
75°	1195.3	1214.6	1357.8	1694.9	2324.4	3039.4	11578.9	14368.0	14369.2	10513.6	5733.5
77.5°	861.9	873.9	1041.2	1422.9	2189.7	2464.1	7712.5	10305.4	9687.8	4817.4	1802.0
80°	564.5	571.7	699.4	1126.7	1974.2	2324.4	4573.0	6307.7	4569.4	1278.4	595.9
82.5°	309.4	345.5	427.4	729.4	1584.2	2147.5	2779.5	3192.4	1714.1	569.4	310.5
85°	155.3	164.9	240.8	426.1	1035.2	1776.7	1935.7	1830.9	884.8	282.9	161.3
87.5°	45.7	57.8	99.9	164.9	420.1	925.7	1077.3	966.6	340.7	102.3	33.7
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°	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6	5964.6
2.5°	5915.3	5893.6	5797.3	5710.6	5631.2	5546.9	5475.9	5413.3	5419.3	5420.5	5356.7
5°	5780.4	5731.1	5548.1	5377.2	5232.7	5049.7	4893.3	4792.1	4741.6	4674.2	4698.2
7.5°	5597.4	5502.4	5248.4	4964.3	4698.2	4461.1	4203.5	4026.6	3913.4	3803.9	3818.3
10°	5408.5	5255.6	4886.1	4510.5	4166.2	3787.0	3458.4	3176.7	2967.3	2889.0	2837.3
12.5°	5214.7	5013.6	4544.1	4044.6	3569.1	3115.3	2649.4	2347.4	2116.2	1993.4	2009.1
15°	5037.7	4793.4	4187.9	3578.8	2961.2	2420.7	1956.1	1668.4	1507.1	1473.4	1492.6
17.5°	4874.0	4553.8	3854.4	3126.1	2405.1	1815.2	1469.8	1307.3	1242.3	1224.2	1223.0
20°	4705.4	4350.3	3480.0	2642.2	1874.3	1407.2	1206.1	1130.3	1118.3	1125.5	1126.7
22.5°	4534.5	4098.8	3094.9	2161.9	1492.6	1150.8	1054.5	1034.0	1043.7	1060.5	1062.9
25°	4376.8	3877.3	2724.1	1740.6	1191.7	1011.2	964.2	964.2	985.9	1011.2	1012.3
27.5°	4246.8	3663.0	2354.6	1381.9	997.9	910.0	894.4	902.8	932.9	952.2	953.4
30°	4139.7	3463.2	2005.4	1107.5	877.5	829.4	825.8	840.2	861.9	879.9	881.1
32.5°	4059.1	3287.4	1679.2	930.5	794.5	768.0	766.8	777.6	789.7	794.5	799.3
35°	4027.8	3141.8	1380.7	818.5	739.1	722.2	722.2	721.1	725.8	728.3	730.7
37.5°	4053.0	3029.8	1149.6	746.4	698.2	686.1	678.9	671.7	669.3	669.3	670.5
40°	4160.2	2970.9	977.4	699.4	669.3	651.2	638.0	629.5	621.2	623.6	625.9
42.5°	4387.7	2981.7	860.7	668.1	644.0	618.7	599.5	589.8	583.8	591.0	589.8
45°	4750.0	3090.0	786.1	646.4	618.7	586.2	568.1	558.5	558.5	569.4	573.0
47.5°	5256.8	3297.1	746.4	629.5	599.5	560.9	542.9	535.7	538.1	556.2	557.3
50°	5875.6	3657.0	739.1	621.2	589.8	542.9	522.4	515.2	521.2	540.5	542.9
52.5°	6558.0	4120.5	774.0	622.3	581.4	532.0	505.6	494.8	500.7	516.4	521.2
55°	7367.0	4700.7	864.3	627.2	569.4	526.0	493.5	469.5	476.7	487.5	488.7
57.5°	8192.8	5432.5	1023.2	628.4	559.8	515.2	473.1	441.8	441.8	449.0	452.6
60°	9201.5	6229.4	1232.7	629.5	560.9	499.6	445.4	410.4	405.7	409.3	410.4
62.5°	10203.0	6896.3	1267.5	625.9	573.0	483.9	415.3	379.2	370.8	369.6	367.1
65°	10644.8	6772.3	1038.8	609.1	586.2	474.3	391.2	349.1	334.7	329.8	329.8
67.5°	9924.9	5728.7	781.2	586.2	577.8	464.6	368.3	323.8	306.9	297.3	297.3
69°	9248.5	5095.5	701.8	570.6	556.2	449.0	353.9	310.5	290.1	279.3	275.7
70°	8726.0	4659.7	668.1	557.3	535.7	431.0	343.0	300.9	278.0	266.1	263.6
72.5°	6963.7	3655.8	585.1	506.8	456.3	362.3	304.6	270.8	249.2	235.9	232.3
75°	4013.3	1981.4	485.1	440.6	367.1	281.6	257.6	235.9	219.1	207.0	203.4
77.5°	1235.0	765.6	351.5	347.9	269.7	217.9	205.9	197.4	185.4	172.1	169.8
80°	520.0	390.0	238.3	234.7	179.4	151.7	148.1	146.9	142.0	131.2	127.6
82.5°	285.3	220.3	166.2	144.5	108.4	87.9	91.5	92.7	89.1	78.2	71.0
85°	139.6	120.3	80.6	65.0	49.3	31.3	30.1	36.1	33.7	24.0	26.5
87.5°	27.7	33.7	21.7	9.6	4.8	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)