

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: P650901

Luminaire Tested: **GALN-SA5C-840-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24233.4 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

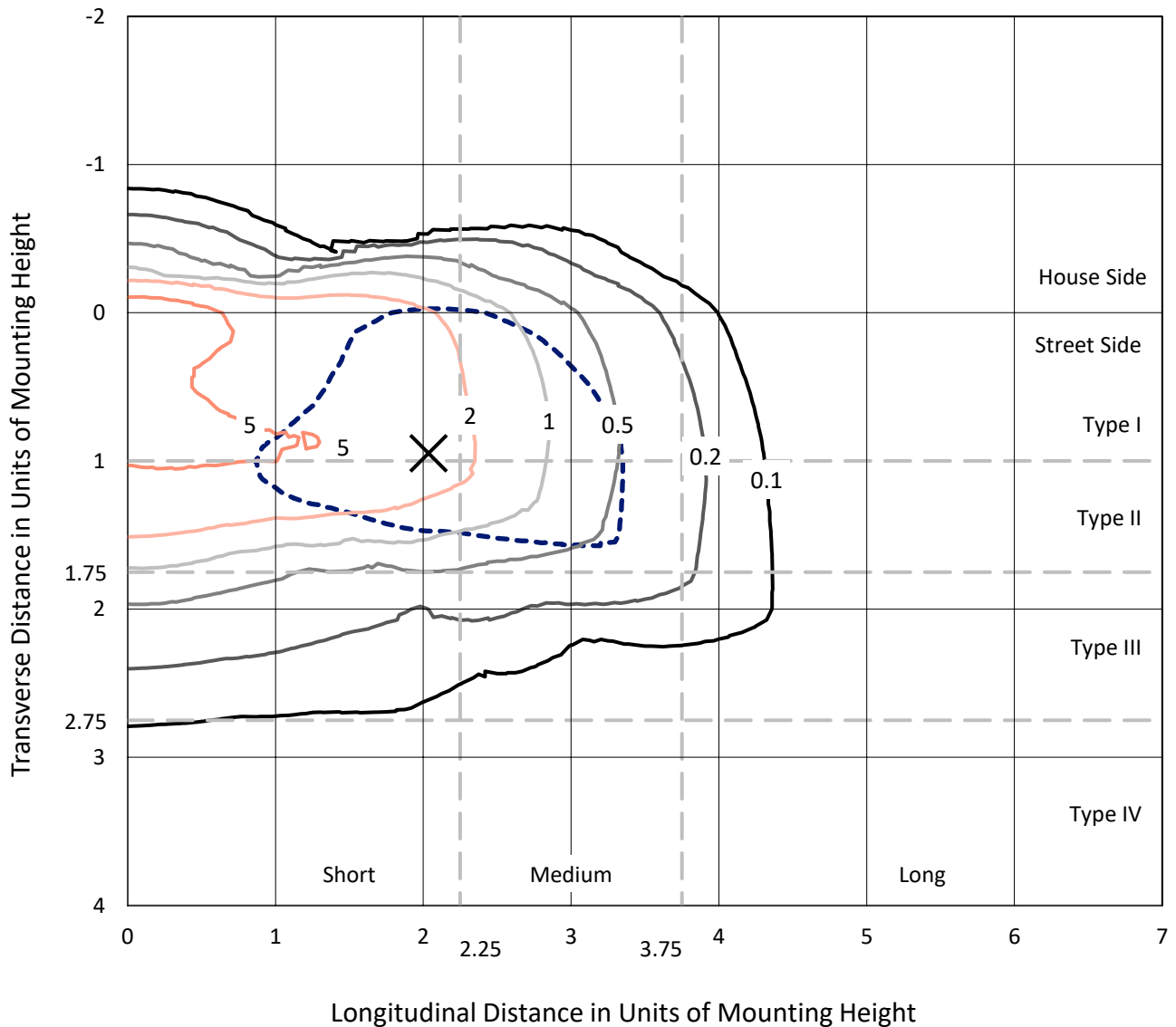
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

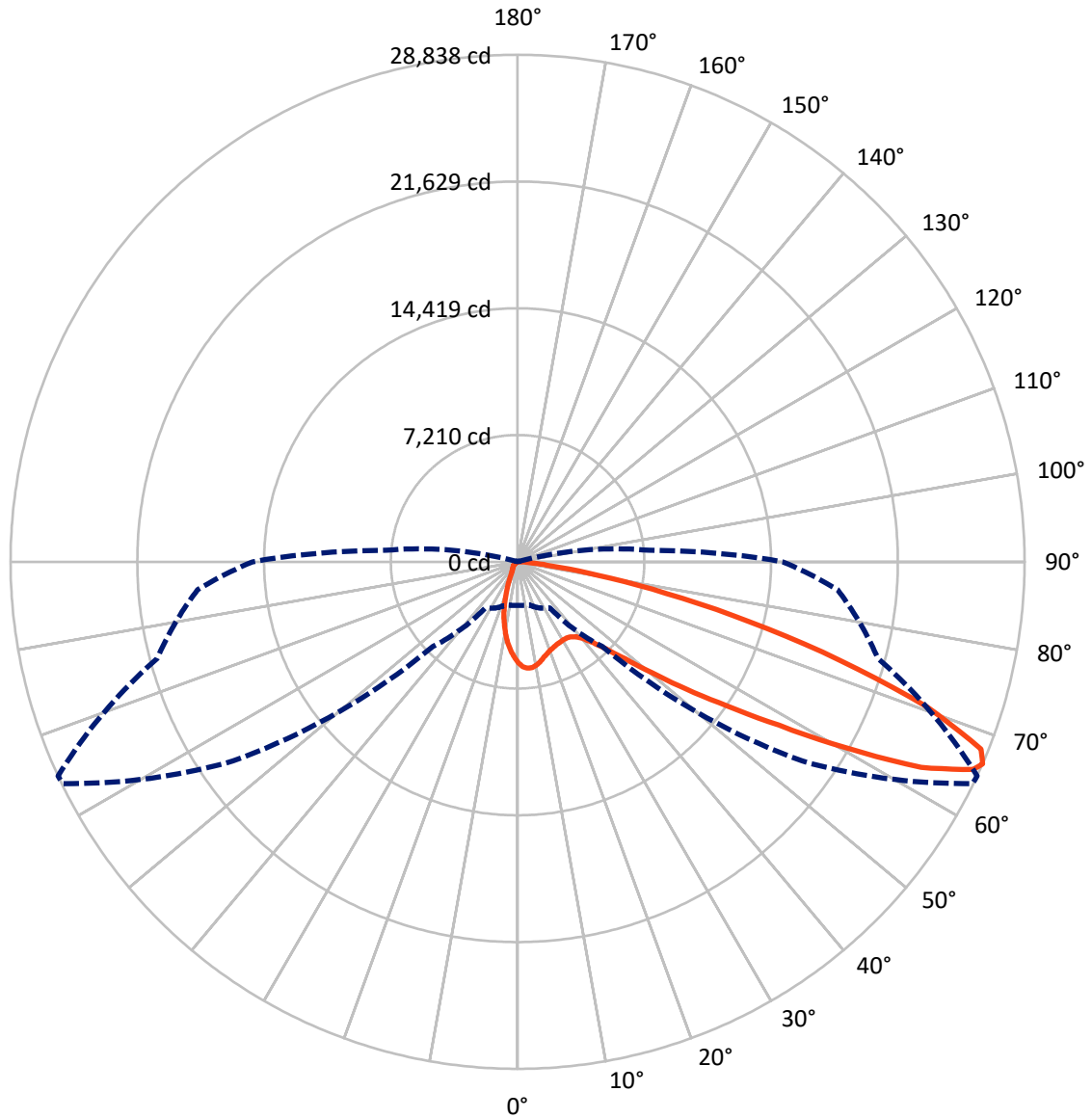
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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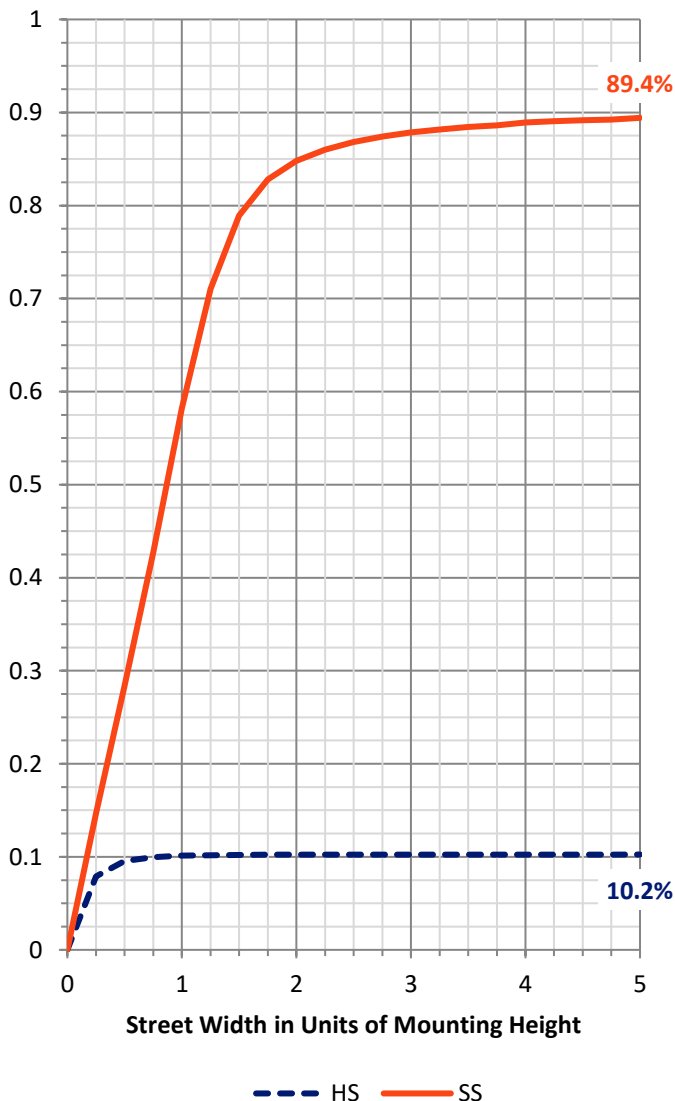
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.1	0.0	2506.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	21727.3	0.0	21727.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	24233.4	0.0	24233.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.0	1.9
10°-20°	1024.0	4.2
20°-30°	1466.9	6.1
30°-40°	2142.6	8.8
40°-50°	3592.7	14.8
50°-60°	5995.7	24.7
60°-70°	6364.2	26.3
70°-80°	2882.3	11.9
80°-90°	294.9	1.2
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°	24233.4	100.0
0°-180°	24233.4	100.0

Coefficient of Utilization

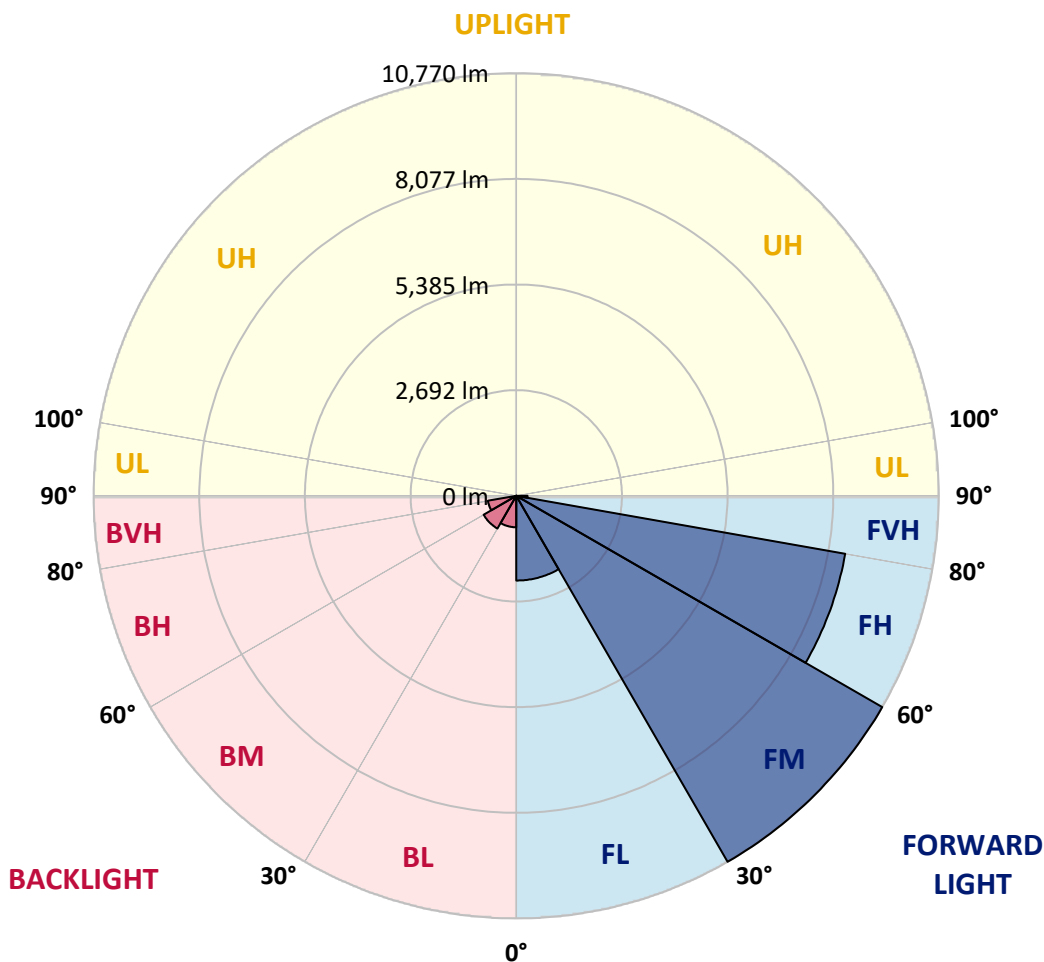


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.3	8.9			
FM (30°-60°)	10769.9	44.4			
FH (60°-80°)	8512.6	35.1			G4/12000
FVH (80°-90°)	285.5	1.2			G3/500
BL (0°-30°)	801.7	3.3	B2/1000		
BM (30°-60°)	961.1	4.0	B1/1000		
BH (60°-80°)	733.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	9.4	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6
2.5°	6056.0	6062.5	6070.7	6082.2	6090.4	6065.8	6031.4	5992.1	5984.0	5900.5	5799.0
5°	5731.9	5741.8	5813.7	5853.0	5941.4	6021.6	6072.4	6078.9	6075.6	5997.1	5835.0
7.5°	5270.4	5298.1	5368.5	5437.3	5602.6	5754.8	5934.9	6060.9	6069.1	6047.8	5846.5
10°	4895.5	4913.5	4949.5	5085.4	5222.9	5455.3	5707.4	5944.7	5964.3	6049.4	5836.6
12.5°	4602.5	4628.7	4672.9	4777.7	4943.0	5162.3	5448.8	5767.9	5808.9	6018.4	5808.9
15°	4397.9	4411.0	4455.2	4558.4	4718.8	4921.7	5211.4	5583.0	5619.0	5977.4	5803.9
17.5°	4301.4	4316.1	4347.2	4429.0	4561.7	4749.9	5033.0	5434.0	5479.9	5951.3	5821.9
20°	4327.5	4340.7	4342.3	4384.9	4474.9	4633.7	4902.1	5294.9	5353.8	5934.9	5851.4
22.5°	4476.6	4478.2	4458.5	4438.9	4470.0	4584.5	4821.9	5206.5	5267.1	5931.6	5885.7
25°	4699.1	4704.0	4671.3	4602.5	4540.4	4599.3	4803.9	5149.2	5203.3	5923.4	5907.0
27.5°	5006.8	5005.2	4995.4	4880.8	4704.0	4664.8	4818.6	5118.2	5164.0	5900.5	5915.3
30°	5437.3	5424.2	5402.9	5273.6	5003.5	4823.5	4880.8	5098.5	5141.0	5867.7	5894.0
32.5°	5861.2	5910.3	5907.0	5784.3	5447.1	5106.6	5010.1	5124.6	5155.8	5846.5	5862.9
35°	6355.5	6353.8	6479.9	6434.1	6039.6	5468.4	5231.0	5211.4	5236.0	5861.2	5848.1
37.5°	6813.8	6856.3	7052.8	7100.2	6740.1	5979.1	5543.7	5398.0	5406.2	5961.1	5884.1
40°	7385.0	7466.9	7759.8	7918.6	7601.0	6736.8	6005.2	5740.1	5741.8	6206.6	6020.0
42.5°	8121.5	8250.9	8524.2	8789.4	8619.2	7633.8	6697.6	6281.8	6278.6	6638.7	6331.0
45°	9016.9	9106.9	9417.9	9838.5	9730.5	8885.9	7705.8	7121.5	7078.9	7347.4	6882.6
47.5°	9789.4	9912.2	10228.1	10707.6	11198.7	10414.7	8910.5	8275.4	8247.6	8475.1	7828.6
50°	10126.6	10234.6	10566.9	11239.5	12429.5	12421.3	10704.3	9959.6	9912.2	10034.9	9291.9
52.5°	9756.7	9858.1	10193.7	11031.7	13008.9	14866.6	13303.5	12072.7	12015.4	11858.3	11039.9
55°	8489.8	8573.3	9069.3	10031.6	12786.3	16496.8	16884.8	14683.3	14460.7	13850.2	13018.8
57.5°	6759.8	6717.2	7025.0	8142.8	11480.2	17043.5	20560.9	17935.5	17537.8	15572.0	14693.1
60°	4684.4	4815.3	4939.7	5676.2	8632.2	16095.8	22847.4	22024.1	21500.3	17266.1	16297.2
62.5°	3443.7	3530.4	3612.3	3952.8	5427.5	12851.7	23251.7	26224.1	25759.2	19064.9	17827.5
65°	2723.6	2730.1	2762.9	3098.4	3576.3	8357.3	21308.8	28592.4	28473.0	20796.6	18447.8
66°	2481.3	2483.0	2533.7	2893.8	3209.7	6805.6	19752.3	28772.5	28838.0	21212.3	18266.2
67.5°	2168.7	2162.1	2235.8	2600.8	2923.2	4907.0	16966.6	28042.5	28430.3	21531.5	17613.1
70°	1680.9	1672.7	1762.8	2181.8	2692.5	3273.5	11277.2	24078.3	24703.5	20878.4	15583.5
72.5°	1119.5	1126.1	1279.9	1721.9	2569.7	2882.4	6784.3	18316.9	19200.7	17241.5	12259.3
75°	653.0	664.6	839.7	1279.9	2230.9	2748.1	3839.8	13061.3	13626.0	11905.7	7637.1
77.5°	342.1	347.0	469.8	844.5	1710.4	2551.7	2558.2	8344.1	8609.3	5785.9	3023.1
80°	181.7	176.8	252.0	509.1	1176.8	2240.7	2075.4	4417.6	4592.7	1718.6	764.4
82.5°	68.7	75.3	134.2	333.9	695.6	1608.9	1787.3	1952.6	1892.1	378.1	320.8
85°	13.1	16.4	57.3	198.1	350.3	672.7	1317.6	957.5	887.1	142.4	184.9
87.5°	1.6	3.3	16.4	47.4	50.7	227.5	389.6	265.2	229.2	52.4	77.0
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°	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6	5746.6
2.5°	5749.9	5705.7	5558.4	5412.8	5263.8	5129.6	5037.9	4889.0	4851.3	4797.3	4766.2
5°	5738.5	5635.4	5352.2	5042.8	4754.8	4443.8	4206.4	3977.3	3854.6	3792.3	3769.4
7.5°	5705.7	5542.0	5100.2	4615.7	4154.0	3689.2	3284.9	2977.2	2779.2	2643.3	2551.7
10°	5640.3	5414.4	4807.2	4141.0	3443.7	2830.0	2317.6	1928.1	1626.9	1532.0	1535.2
12.5°	5573.1	5272.0	4479.8	3613.9	2749.7	1975.6	1432.1	1124.4	980.4	932.9	923.2
15°	5510.9	5136.2	4159.0	3103.3	2047.6	1279.9	923.2	815.1	775.8	767.7	766.0
17.5°	5478.2	5010.1	3816.9	2519.0	1428.9	869.1	739.8	710.3	698.9	690.7	687.4
20°	5450.4	4900.4	3489.6	1972.3	977.2	712.0	662.9	635.0	615.4	607.2	602.3
22.5°	5430.8	4787.5	3150.7	1527.1	748.0	631.8	587.6	551.6	523.8	513.9	507.4
25°	5401.3	4663.1	2808.7	1116.3	630.2	561.4	510.7	468.1	432.1	414.1	410.8
27.5°	5358.8	4522.3	2433.9	826.5	563.0	499.2	437.0	384.7	348.6	329.0	330.6
30°	5290.0	4375.1	2059.0	656.3	509.1	435.4	368.3	317.6	283.2	268.4	266.8
32.5°	5208.1	4196.7	1715.3	563.0	459.9	378.1	307.7	263.5	237.3	225.9	224.2
35°	5131.2	4016.6	1365.0	505.8	409.1	325.7	258.6	220.9	201.3	191.5	193.2
37.5°	5088.6	3856.2	1063.9	459.9	368.3	279.9	222.6	189.9	171.9	163.7	162.1
40°	5116.5	3725.2	846.2	419.0	322.4	240.6	191.5	163.7	145.7	134.2	134.2
42.5°	5247.4	3667.9	682.6	379.7	279.9	207.9	166.9	140.8	121.1	109.7	111.3
45°	5646.8	3728.5	571.2	343.7	240.6	180.1	144.1	116.2	98.2	90.0	88.4
47.5°	6309.7	3956.1	494.3	306.0	206.2	153.8	121.1	96.5	78.5	72.0	70.4
50°	7468.5	4425.8	437.0	268.4	175.1	130.9	99.8	77.0	62.2	55.7	55.7
52.5°	9062.7	5450.4	396.1	225.9	147.3	111.3	81.8	62.2	49.1	44.2	42.6
55°	10728.9	6530.6	374.8	189.9	122.8	91.7	65.4	49.1	37.7	32.7	31.1
57.5°	12331.3	7378.5	350.3	153.8	98.2	70.4	50.7	37.7	26.2	22.9	21.3
60°	13868.2	8064.3	297.9	122.8	77.0	50.7	37.7	26.2	18.0	14.7	14.7
62.5°	15243.0	8463.7	234.1	98.2	59.0	36.0	24.6	19.7	13.1	9.8	9.8
65°	15403.5	7944.8	176.8	75.3	42.6	22.9	14.7	14.7	9.8	6.6	6.6
66°	15081.1	7504.5	155.5	68.7	37.7	19.7	13.1	11.4	8.2	4.9	4.9
67.5°	14360.8	6753.2	134.2	59.0	31.1	14.7	9.8	9.8	6.6	3.3	3.3
70°	12408.2	5515.9	106.4	44.2	22.9	11.4	6.6	6.6	4.9	3.3	3.3
72.5°	9457.1	4118.0	86.7	32.7	16.4	8.2	4.9	4.9	4.9	3.3	3.3
75°	5704.1	2217.8	67.1	24.6	14.7	6.6	3.3	4.9	6.6	4.9	3.3
77.5°	2101.6	754.5	52.4	19.7	11.4	6.6	3.3	3.3	6.6	4.9	4.9
80°	515.6	196.4	37.7	16.4	11.4	6.6	3.3	3.3	6.6	6.6	6.6
82.5°	238.9	83.5	26.2	14.7	11.4	6.6	3.3	3.3	4.9	6.6	6.6
85°	137.5	39.3	21.3	16.4	11.4	6.6	3.3	3.3	4.9	6.6	6.6
87.5°	55.7	19.7	19.7	16.4	13.1	8.2	3.3	3.3	3.3	4.9	4.9
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)