

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: P646941

Luminaire Tested: **GALN-SA5C-835-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646941
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-835-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 22562.1 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

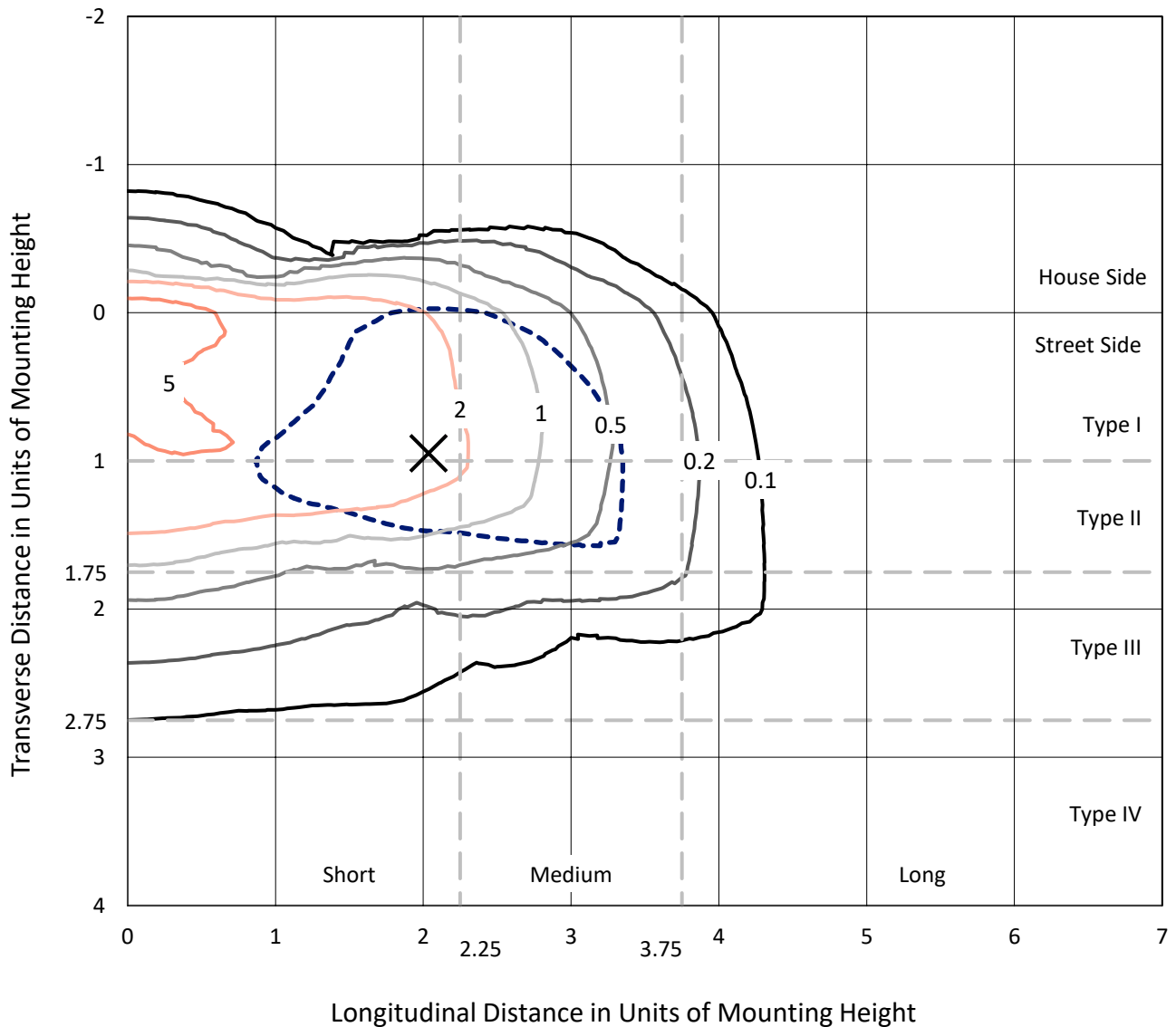
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

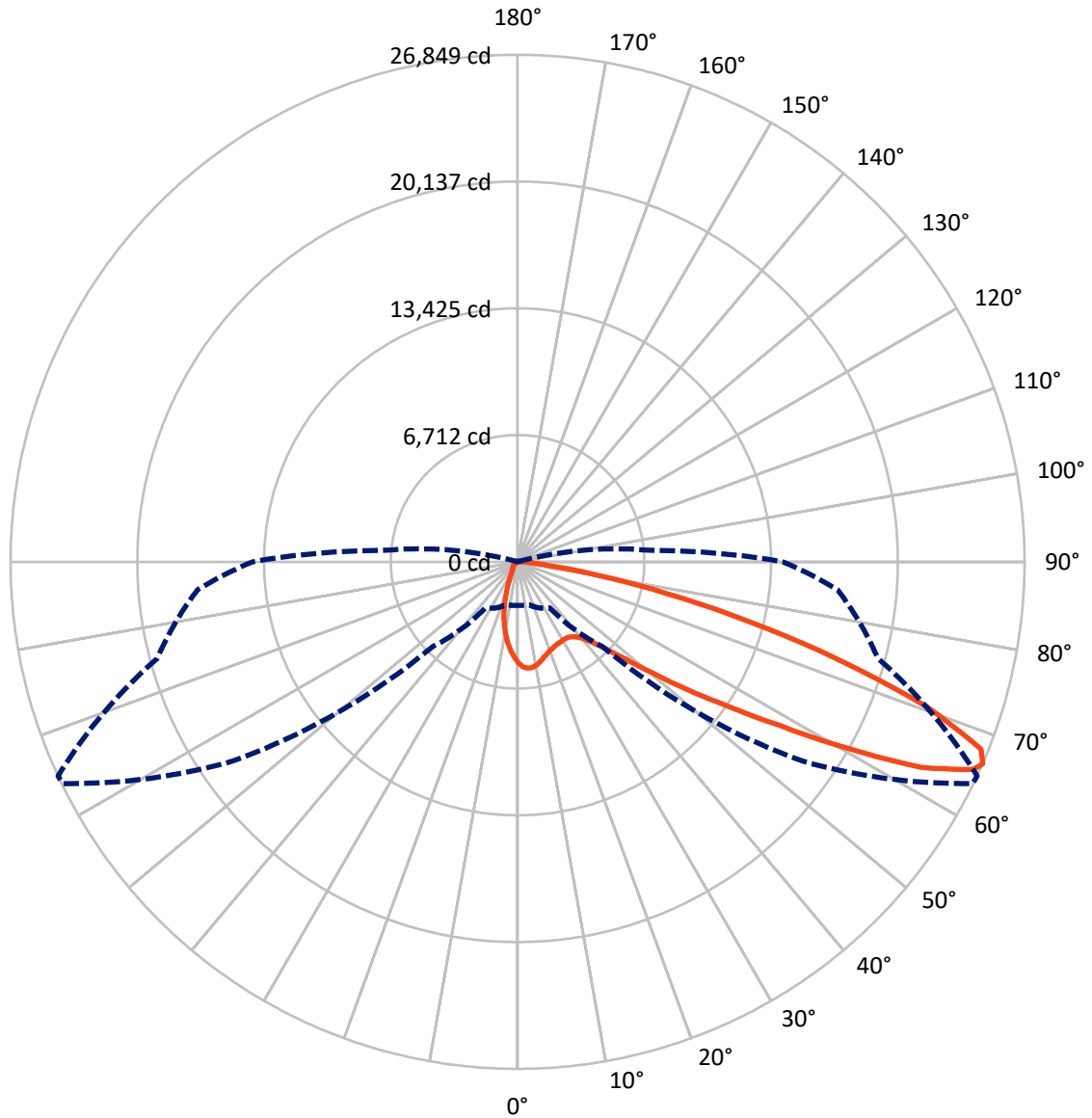
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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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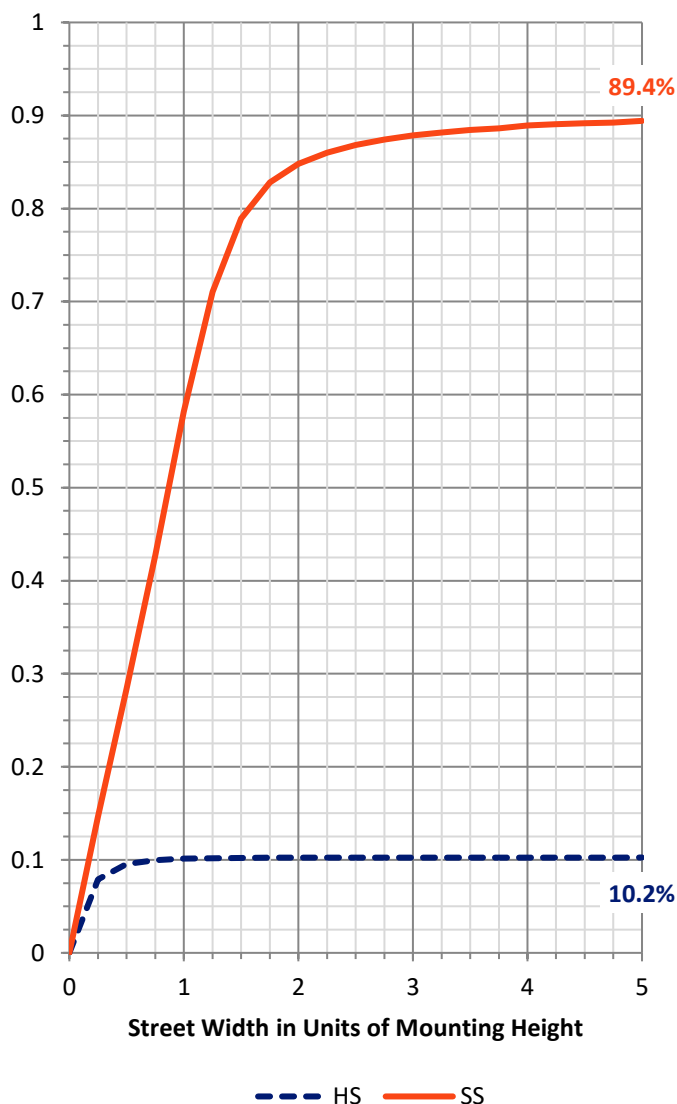
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2333.2	0.0	2333.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20228.9	0.0	20228.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	22562.1	0.0	22562.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	1.9
10°-20°	953.4	4.2
20°-30°	1365.8	6.1
30°-40°	1994.8	8.8
40°-50°	3344.9	14.8
50°-60°	5582.2	24.7
60°-70°	5925.3	26.3
70°-80°	2683.6	11.9
80°-90°	274.6	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°	22562.1	100.0
0°-180°	22562.1	100.0

Coefficient of Utilization

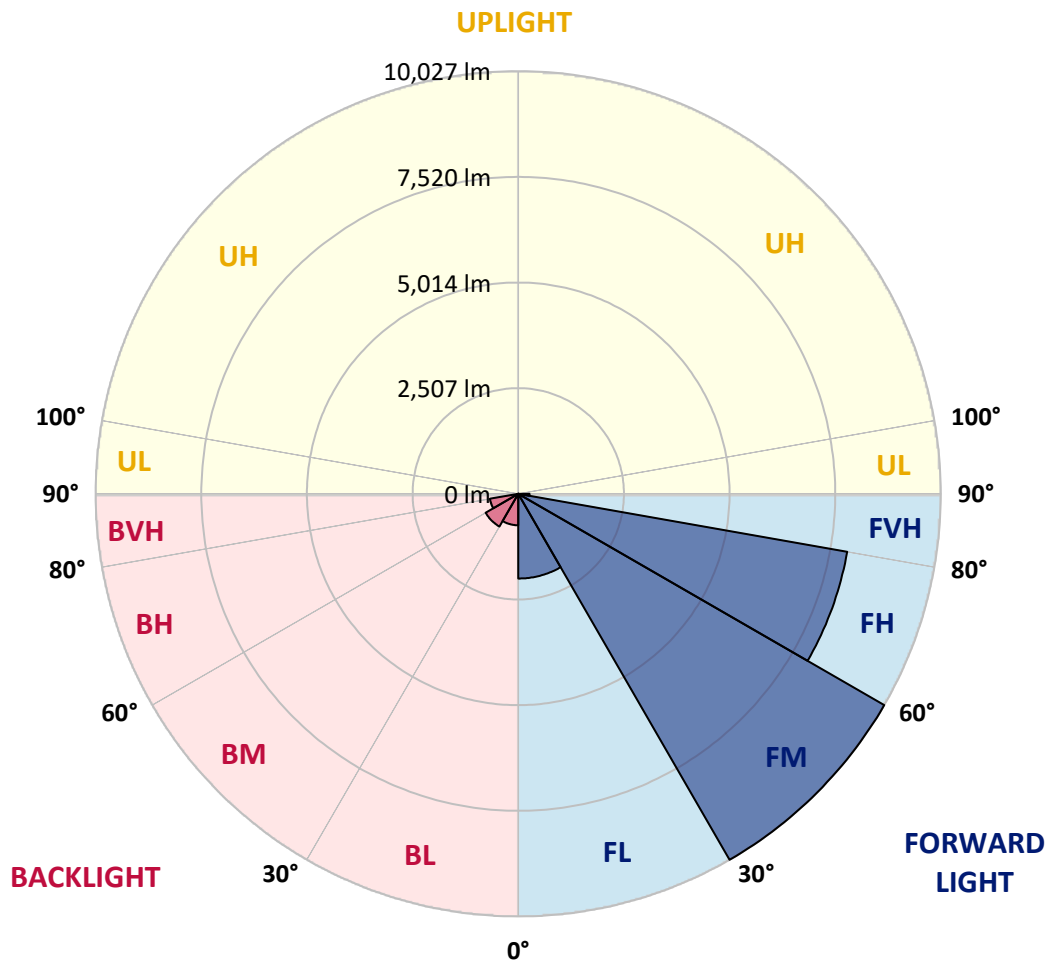


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.4	8.9			
FM (30°-60°)	10027.1	44.4			
FH (60°-80°)	7925.6	35.1			G4/12000
FVH (80°-90°)	265.8	1.2			G3/500
BL (0°-30°)	746.4	3.3	B2/1000		
BM (30°-60°)	894.8	4.0	B1/1000		
BH (60°-80°)	683.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3
2.5°	5638.3	5644.4	5652.0	5662.7	5670.3	5647.5	5615.4	5578.9	5571.3	5493.5	5399.1
5°	5336.6	5345.8	5412.8	5449.4	5531.7	5606.4	5653.6	5659.7	5656.6	5583.5	5432.6
7.5°	4906.9	4932.7	4998.3	5062.3	5216.2	5357.9	5525.6	5642.9	5650.5	5630.7	5443.3
10°	4557.9	4574.7	4608.2	4734.6	4862.7	5079.1	5313.8	5534.7	5553.0	5632.2	5434.1
12.5°	4285.1	4309.5	4350.7	4448.2	4602.1	4806.3	5073.0	5370.1	5408.3	5603.3	5408.3
15°	4094.6	4106.8	4147.9	4244.0	4393.3	4582.3	4852.0	5197.9	5231.5	5565.2	5403.6
17.5°	4004.7	4018.4	4047.4	4123.6	4247.1	4422.3	4685.9	5059.3	5101.9	5540.8	5420.4
20°	4029.1	4041.3	4042.9	4082.5	4166.3	4314.1	4564.0	4929.7	4984.6	5525.6	5447.9
22.5°	4167.8	4169.3	4151.0	4132.8	4161.7	4268.4	4489.3	4847.5	4903.9	5522.5	5479.8
25°	4375.0	4379.6	4349.1	4285.1	4227.3	4282.1	4472.6	4794.1	4844.4	5514.9	5499.6
27.5°	4661.5	4660.0	4650.9	4544.2	4379.6	4343.1	4486.3	4765.2	4807.9	5493.5	5507.3
30°	5062.3	5050.1	5030.3	4909.9	4658.5	4490.8	4544.2	4746.9	4786.5	5463.1	5487.5
32.5°	5457.0	5502.7	5499.6	5385.4	5071.4	4754.5	4664.6	4771.2	4800.2	5443.3	5458.5
35°	5917.2	5915.6	6033.0	5990.3	5623.1	5091.2	4870.3	4852.0	4874.9	5457.0	5444.8
37.5°	6343.9	6383.5	6566.4	6610.6	6275.3	5566.7	5161.4	5025.8	5033.4	5550.0	5478.3
40°	6875.7	6951.9	7224.7	7372.5	7076.8	6272.2	5591.1	5344.2	5345.8	5778.5	5604.8
42.5°	7561.4	7681.9	7936.3	8183.2	8024.7	7107.4	6235.7	5848.6	5845.6	6180.8	5894.3
45°	8395.0	8478.8	8768.3	9160.0	9059.4	8273.1	7174.4	6630.4	6590.7	6840.7	6407.9
47.5°	9114.3	9228.6	9522.7	9969.2	10426.3	9696.4	8296.0	7704.7	7678.8	7890.6	7288.7
50°	9428.2	9528.8	9838.2	10464.4	11572.3	11564.7	9966.1	9272.8	9228.6	9342.8	8651.1
52.5°	9083.8	9178.2	9490.7	10270.9	12111.8	13841.3	12386.0	11240.1	11186.7	11040.5	10278.5
55°	7904.3	7982.1	8443.8	9339.8	11904.5	15359.1	15720.3	13670.6	13463.5	12895.0	12120.9
57.5°	6293.6	6254.0	6540.5	7581.2	10688.4	15868.1	19142.9	16698.6	16328.3	14498.1	13679.8
60°	4361.3	4483.2	4599.0	5284.8	8036.9	14985.8	21271.8	20505.2	20017.6	16075.3	15173.2
62.5°	3206.2	3287.0	3363.2	3680.2	5053.2	11965.4	21648.1	24415.5	23982.7	17750.1	16598.0
65°	2535.7	2541.9	2572.3	2884.7	3329.6	7780.9	19839.3	26620.5	26509.3	19362.3	17175.6
66°	2310.2	2311.7	2358.9	2694.2	2988.3	6336.3	18390.1	26788.2	26849.1	19749.4	17006.4
67.5°	2019.1	2013.0	2081.6	2421.4	2721.6	4568.6	15796.5	26108.5	26469.6	20046.5	16398.4
70°	1565.0	1557.4	1641.2	2031.3	2506.8	3047.7	10499.5	22417.7	22999.8	19438.5	14508.8
72.5°	1042.3	1048.4	1191.6	1603.1	2392.5	2683.6	6316.5	17053.7	17876.5	16052.4	11413.8
75°	608.0	618.7	781.7	1191.6	2077.1	2558.6	3575.0	12160.5	12686.2	11084.6	7110.4
77.5°	318.5	323.1	437.4	786.3	1592.5	2375.7	2381.8	7768.7	8015.6	5386.9	2814.6
80°	169.1	164.6	234.7	473.9	1095.7	2086.1	1932.3	4112.9	4276.0	1600.1	711.7
82.5°	64.0	70.1	125.0	310.9	647.6	1498.0	1664.0	1818.0	1761.6	352.0	298.7
85°	12.2	15.3	53.3	184.4	326.1	626.3	1226.7	891.4	825.9	132.6	172.2
87.5°	1.5	3.1	15.3	44.2	47.2	211.8	362.7	246.9	213.4	48.8	71.6
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°	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3	5350.3
2.5°	5353.4	5312.2	5175.1	5039.5	4900.8	4775.8	4690.5	4551.8	4516.7	4466.5	4437.5
5°	5342.7	5246.7	4983.1	4695.0	4426.8	4137.3	3916.3	3703.0	3588.7	3530.8	3509.5
7.5°	5312.2	5159.8	4748.4	4297.3	3867.6	3434.8	3058.4	2771.9	2587.5	2461.0	2375.7
10°	5251.3	5041.0	4475.6	3855.4	3206.2	2634.8	2157.8	1795.1	1514.7	1426.3	1429.4
12.5°	5188.8	4908.4	4170.8	3364.7	2560.1	1839.3	1333.4	1046.9	912.8	868.6	859.5
15°	5130.8	4781.9	3872.2	2889.3	1906.4	1191.6	859.5	758.9	722.3	714.7	713.2
17.5°	5100.4	4664.6	3553.6	2345.2	1330.3	809.2	688.8	661.3	650.7	643.1	640.0
20°	5074.5	4562.5	3248.9	1836.3	909.8	662.9	617.2	591.2	573.0	565.3	560.8
22.5°	5056.2	4457.3	2933.4	1421.8	696.4	588.2	547.1	513.6	487.7	478.5	472.4
25°	5028.8	4341.5	2615.0	1039.3	586.7	522.7	475.4	435.8	402.3	385.5	382.5
27.5°	4989.2	4210.4	2266.0	769.5	524.2	464.8	406.8	358.1	324.6	306.3	307.8
30°	4925.1	4073.3	1917.0	611.1	473.9	405.4	342.9	295.7	263.6	249.9	248.4
32.5°	4849.0	3907.2	1597.0	524.2	428.2	352.0	286.5	245.3	221.0	210.3	208.7
35°	4777.3	3739.6	1270.9	470.9	380.9	303.3	240.8	205.7	187.5	178.3	179.9
37.5°	4737.7	3590.2	990.5	428.2	342.9	260.6	207.3	176.8	160.0	152.4	150.9
40°	4763.6	3468.3	787.9	390.1	300.2	224.0	178.3	152.4	135.6	125.0	125.0
42.5°	4885.5	3415.0	635.5	353.5	260.6	193.6	155.4	131.1	112.8	102.1	103.6
45°	5257.4	3471.4	531.8	320.0	224.0	167.6	134.1	108.2	91.5	83.8	82.3
47.5°	5874.5	3683.2	460.2	284.9	192.0	143.2	112.8	89.9	73.1	67.0	65.5
50°	6953.4	4120.5	406.8	249.9	163.0	121.9	92.9	71.6	57.9	51.8	51.8
52.5°	8437.7	5074.5	368.8	210.3	137.2	103.6	76.2	57.9	45.7	41.1	39.6
55°	9989.0	6080.2	349.0	176.8	114.3	85.3	60.9	45.7	35.1	30.5	29.0
57.5°	11480.9	6869.7	326.1	143.2	91.5	65.5	47.2	35.1	24.4	21.3	19.8
60°	12911.7	7508.1	277.3	114.3	71.6	47.2	35.1	24.4	16.8	13.7	13.7
62.5°	14191.8	7880.0	217.9	91.5	54.9	33.5	22.9	18.3	12.2	9.2	9.2
65°	14341.2	7396.8	164.6	70.1	39.6	21.3	13.7	13.7	9.2	6.1	6.1
66°	14041.0	6986.9	144.8	64.0	35.1	18.3	12.2	10.6	7.6	4.5	4.5
67.5°	13370.4	6287.5	125.0	54.9	29.0	13.7	9.2	9.2	6.1	3.1	3.1
70°	11552.5	5135.5	99.0	41.1	21.3	10.6	6.1	6.1	4.5	3.1	3.1
72.5°	8804.9	3834.0	80.7	30.5	15.3	7.6	4.5	4.5	4.5	3.1	3.1
75°	5310.7	2064.8	62.5	22.9	13.7	6.1	3.1	4.5	6.1	4.5	3.1
77.5°	1956.6	702.5	48.8	18.3	10.6	6.1	3.1	3.1	6.1	4.5	4.5
80°	480.1	182.8	35.1	15.3	10.6	6.1	3.1	3.1	6.1	6.1	6.1
82.5°	222.5	77.8	24.4	13.7	10.6	6.1	3.1	3.1	4.5	6.1	6.1
85°	128.0	36.6	19.8	15.3	10.6	6.1	3.1	3.1	4.5	6.1	6.1
87.5°	51.8	18.3	18.3	15.3	12.2	7.6	3.1	3.1	3.1	4.5	4.5
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)