

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: P456841

Luminaire Tested: **GALN-SA8A-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456841
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-SA8A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 22330 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

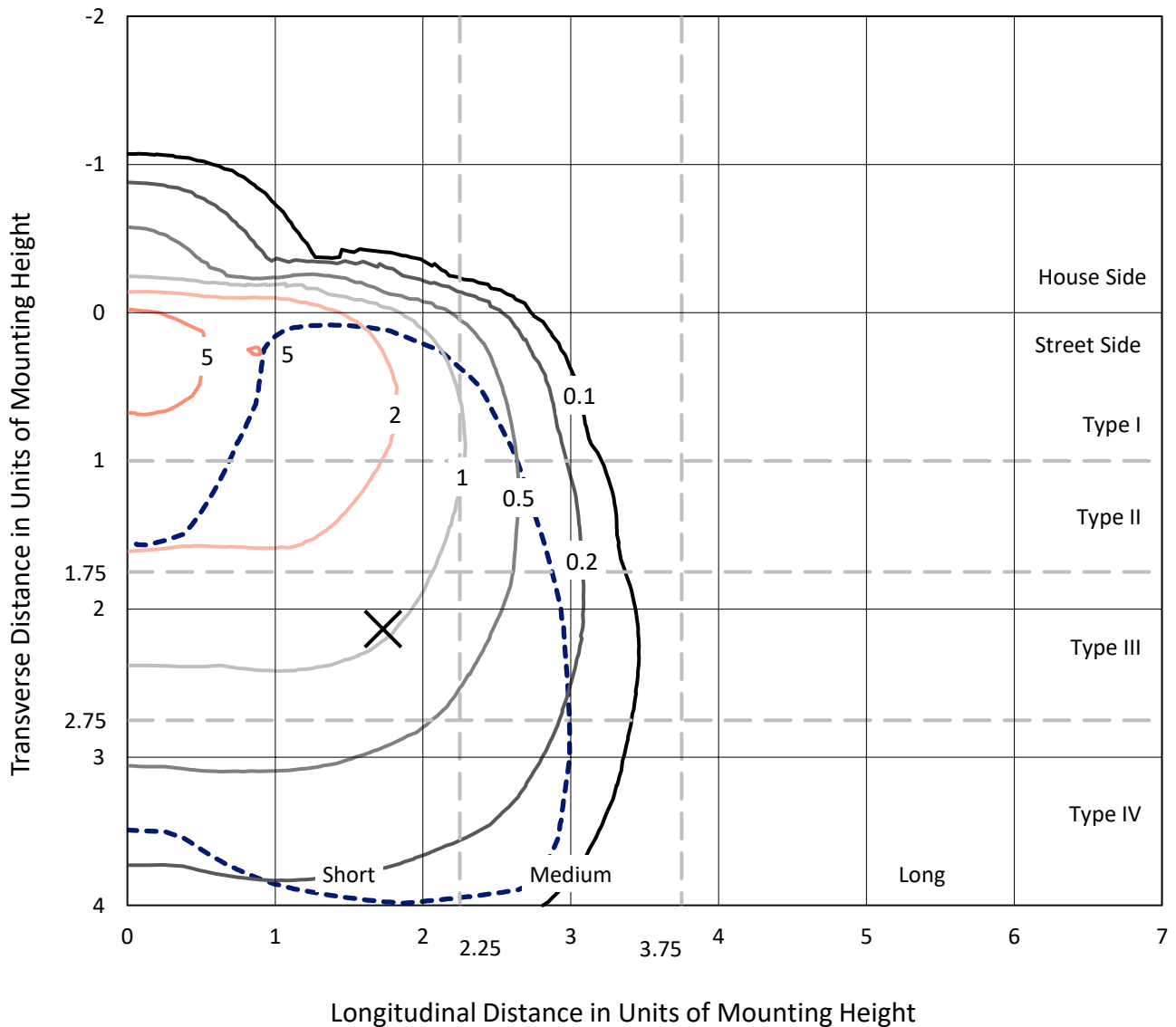
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

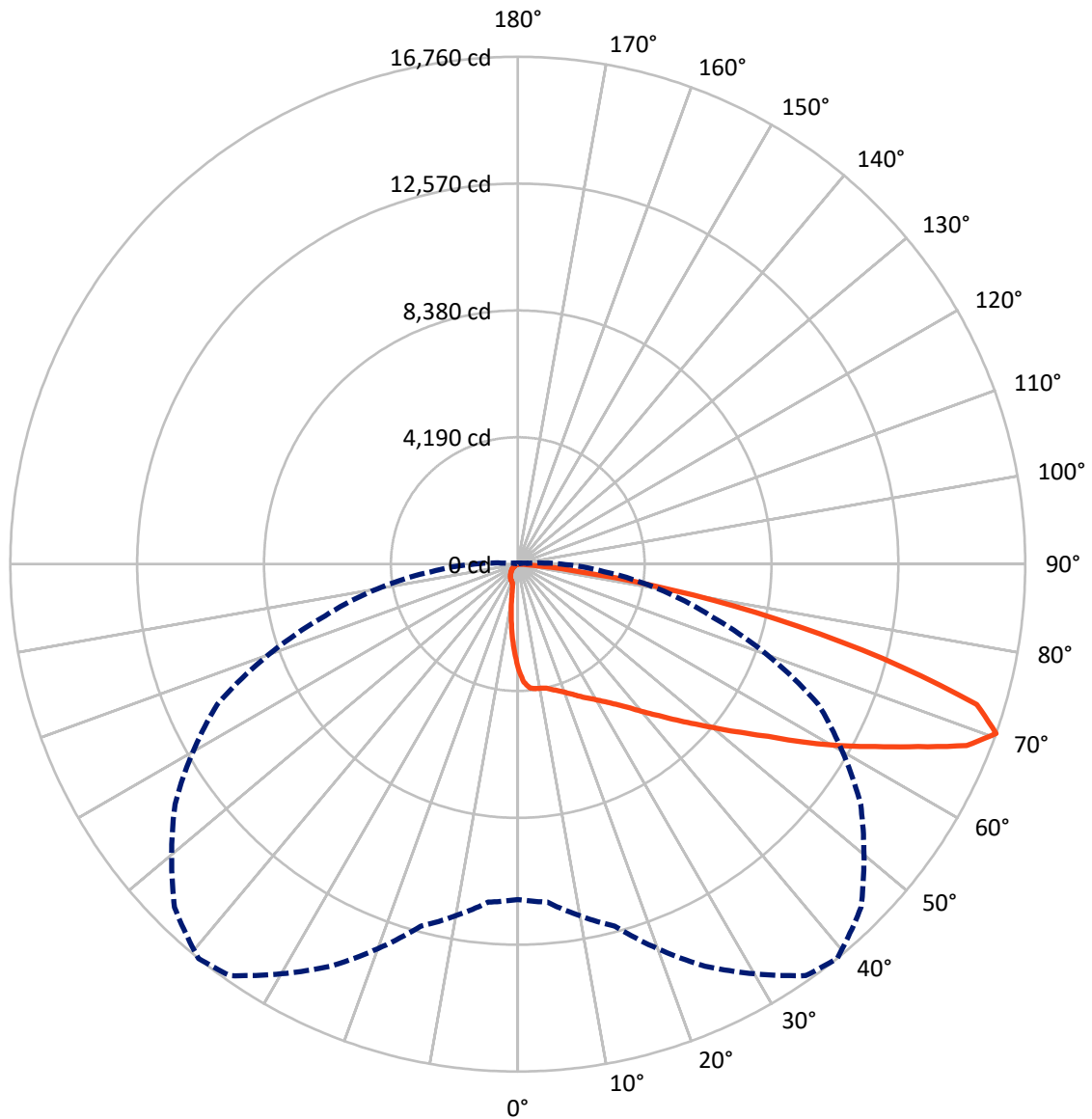
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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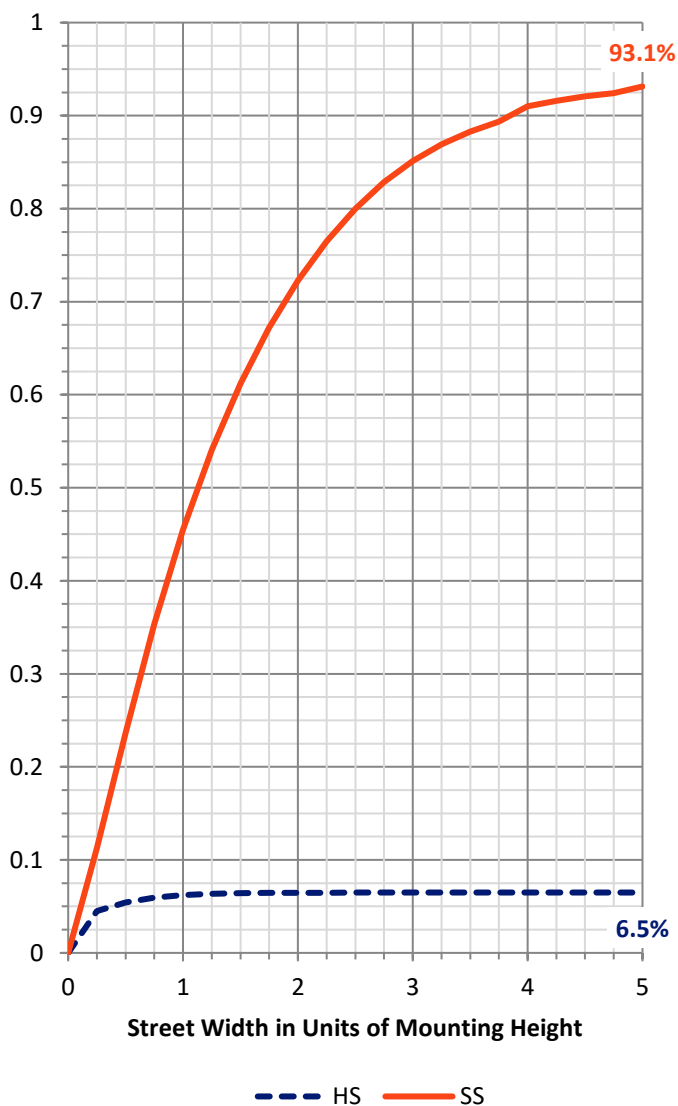
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.0	0.0	1456.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	20874.0	0.0	20874.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	22330.0	0.0	22330.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.3
10°-20°	772.3	3.5
20°-30°	1293.8	5.8
30°-40°	2006.5	9.0
40°-50°	3179.7	14.2
50°-60°	4661.0	20.9
60°-70°	5974.3	26.8
70°-80°	3754.1	16.8
80°-90°	391.1	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°	22330.0	100.0
0°-180°	22330.0	100.0

Coefficient of Utilization



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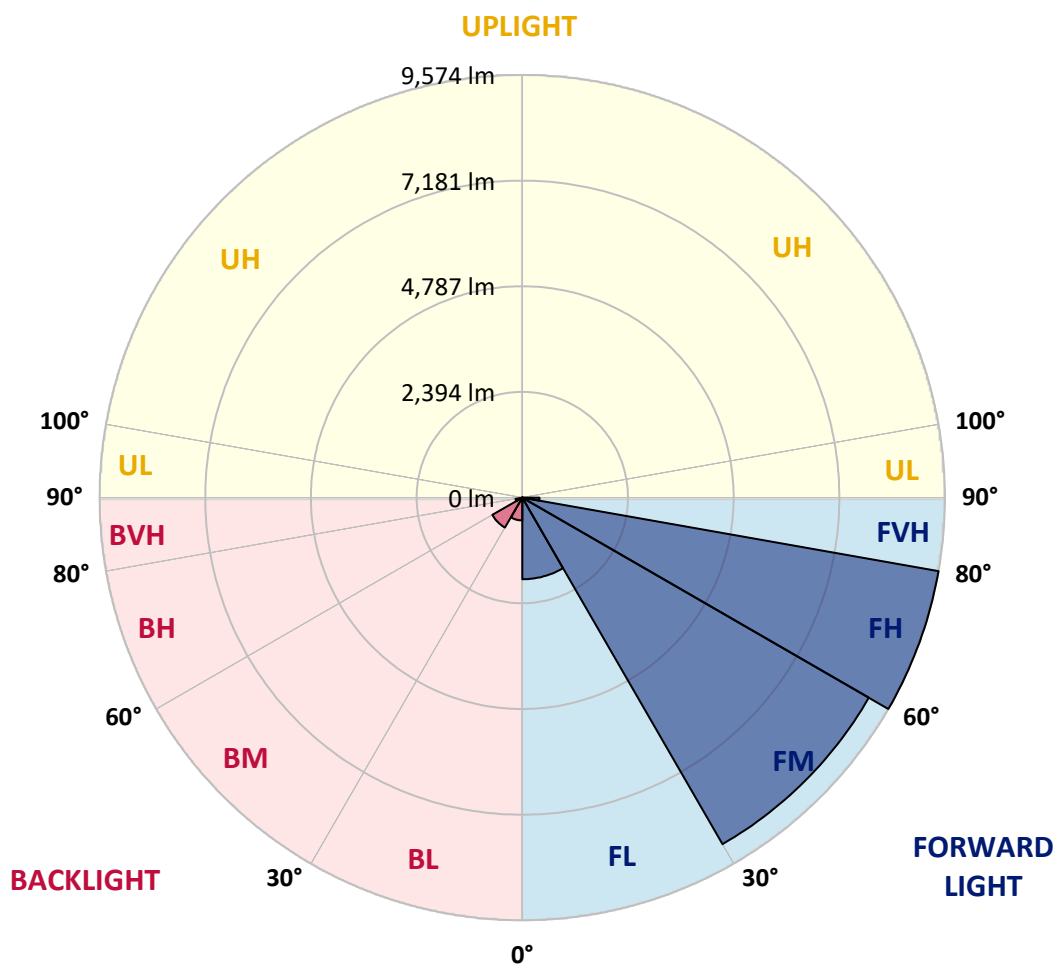
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1847.7	8.3			
FM	(30°-60°)	9063.7	40.6			
FH	(60°-80°)	9574.4	42.9			G4/12000
FVH	(80°-90°)	388.2	1.7			G3/500
BL	(0°-30°)	515.6	2.3	B2/1000		
BM	(30°-60°)	783.6	3.5	B1/1000		
BH	(60°-80°)	154.0	0.7	B1/500		G1/500
BVH	(80°-90°)	2.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2
2.5°	4025.9	4012.4	3994.4	3973.4	3913.4	3902.9	3866.9	3790.4	3698.8	3623.8	3520.3
5°	4216.5	4224.0	4210.5	4173.0	4129.5	4104.0	4059.0	3940.4	3821.9	3670.3	3500.8
7.5°	4260.0	4275.0	4258.5	4222.5	4180.5	4153.5	4117.5	4015.4	3877.4	3704.8	3472.2
10°	4255.5	4273.5	4263.0	4230.0	4195.5	4170.0	4131.0	4049.9	3938.9	3757.3	3481.2
12.5°	4248.0	4272.0	4270.5	4254.0	4225.5	4206.0	4182.0	4110.0	4006.4	3833.9	3530.8
15°	4227.0	4257.0	4284.0	4297.5	4299.0	4299.0	4269.0	4192.5	4093.5	3934.4	3595.3
17.5°	4236.0	4270.5	4338.1	4377.1	4404.1	4401.1	4369.6	4287.0	4177.5	4037.9	3662.8
20°	4291.5	4338.1	4432.6	4510.6	4537.6	4528.6	4486.6	4390.6	4266.0	4126.5	3728.8
22.5°	4428.1	4470.1	4588.6	4680.2	4699.7	4675.7	4615.7	4485.1	4372.6	4222.5	3808.4
25°	4632.2	4681.7	4791.2	4860.2	4860.2	4846.7	4762.7	4609.6	4492.6	4356.1	3911.9
27.5°	4879.7	4921.8	5029.8	5091.3	5055.3	5016.3	4932.3	4747.7	4635.2	4524.1	4036.4
30°	5130.3	5157.3	5271.4	5298.4	5260.9	5211.4	5121.3	4936.8	4837.7	4752.2	4216.5
32.5°	5367.4	5425.9	5520.5	5514.5	5463.5	5439.4	5356.9	5160.3	5104.8	5095.8	4468.6
35°	5604.5	5649.5	5733.6	5754.6	5709.5	5705.0	5645.0	5499.5	5501.0	5559.5	4861.7
37.5°	5808.6	5849.1	5948.1	5994.6	6003.6	6026.2	6002.1	5906.1	6042.7	6203.2	5382.4
40°	5979.6	6036.7	6162.7	6243.7	6336.8	6419.3	6423.8	6444.8	6719.4	6995.5	6062.2
42.5°	6113.2	6192.7	6375.8	6525.8	6738.9	6843.9	6928.0	7043.5	7505.7	7918.3	6863.5
45°	6287.2	6378.8	6606.9	6842.4	7175.6	7348.1	7465.2	7774.3	8430.0	8992.7	7685.7
47.5°	6575.4	6623.4	6856.0	7199.6	7637.7	7883.8	8111.9	8580.1	9421.9	9926.0	8370.0
50°	6946.0	6977.5	7153.1	7630.2	8197.4	8521.5	8937.2	9487.9	10451.2	10700.3	8757.1
52.5°	7355.6	7366.1	7498.2	8104.4	8824.7	9232.8	9698.0	10377.7	11290.0	11252.5	9013.7
55°	7831.3	7816.3	7928.8	8619.1	9567.4	10034.1	10575.8	11288.5	12017.8	11644.2	9160.8
57.5°	8376.0	8335.5	8445.0	9301.8	10518.8	11077.0	11627.7	12074.8	12582.0	11972.8	9231.3
60°	8946.2	8865.2	8995.7	10068.6	11639.7	12169.4	12627.0	12747.1	13176.2	12233.9	9109.8
62.5°	9400.9	9402.4	9645.4	10884.9	12792.1	13255.7	13498.8	13606.9	13687.9	12176.9	8470.5
65°	10110.6	10134.6	10523.3	12017.8	14126.1	14528.2	14694.8	14343.6	13710.4	11468.6	7510.2
67.5°	10842.9	10919.4	11630.7	13578.4	15667.1	15991.2	15776.6	14486.2	13098.2	9852.5	5694.5
70°	11081.5	11207.5	12379.4	14652.7	16591.4	16759.5	16033.2	13821.4	10949.4	6587.4	2866.0
72.5°	10154.1	10358.2	11948.8	14261.1	16001.7	15856.2	14345.1	11591.6	6961.0	2501.4	874.8
75°	7160.6	7250.6	9930.6	11830.2	12870.1	12457.5	10911.9	7472.7	2863.0	702.3	300.1
77.5°	3697.3	3653.8	5906.1	7849.3	9178.8	8751.1	7145.6	3868.4	1084.9	292.6	186.1
80°	1911.7	1943.2	2555.4	4113.0	5603.0	5155.8	3809.9	1793.1	577.7	162.1	142.6
82.5°	1071.4	1005.4	1469.0	1796.1	2619.9	2054.2	1461.5	1269.5	252.1	97.5	135.0
85°	195.1	204.1	805.8	970.8	909.3	577.7	471.2	847.8	73.5	54.0	94.5
87.5°	3.0	3.0	156.1	279.1	177.1	81.0	148.6	121.5	15.0	21.0	16.5
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°	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2	3484.2
2.5°	3467.7	3410.7	3304.2	3199.1	3065.6	2956.1	2882.5	2806.0	2728.0	2734.0	2752.0
5°	3407.7	3308.7	3098.6	2876.5	2663.5	2471.4	2282.3	2112.8	2043.7	1980.7	1983.7
7.5°	3347.7	3208.1	2900.5	2552.4	2229.8	1902.7	1665.6	1470.5	1367.0	1289.0	1266.5
10°	3320.7	3136.1	2719.0	2240.3	1782.6	1425.5	1120.9	961.8	838.8	799.8	810.3
12.5°	3332.7	3100.1	2555.4	1958.2	1413.5	993.4	780.3	699.3	672.2	667.7	664.7
15°	3355.2	3074.6	2394.9	1646.1	1038.4	738.3	655.7	640.7	637.7	634.7	636.2
17.5°	3385.2	3052.1	2223.8	1353.5	796.8	645.2	621.2	613.7	612.2	612.2	612.2
20°	3415.2	3026.6	2033.2	1092.4	664.7	609.2	594.2	589.7	588.2	588.2	586.7
22.5°	3449.7	3004.1	1839.7	858.3	612.2	583.7	570.2	567.2	565.7	564.2	564.2
25°	3499.3	2975.6	1634.1	702.3	579.2	559.7	546.2	543.2	541.7	535.7	537.2
27.5°	3565.3	2954.6	1422.5	606.2	549.2	529.7	520.7	516.2	513.2	508.7	510.2
30°	3655.3	2936.6	1197.4	553.7	514.7	498.2	489.2	486.2	483.2	478.7	478.7
32.5°	3811.4	2944.1	960.3	511.7	483.2	463.7	454.7	451.7	448.7	444.2	444.2
35°	4045.4	2987.6	768.3	475.7	445.7	426.2	417.1	417.1	412.6	406.6	405.1
37.5°	4428.1	3098.6	616.7	441.2	409.6	391.6	381.1	378.1	373.6	364.6	363.1
40°	4879.7	3271.2	519.2	406.6	376.6	358.6	349.6	340.6	328.6	319.6	318.1
42.5°	5446.9	3448.2	450.2	372.1	345.1	328.6	318.1	303.1	285.1	273.1	271.6
45°	6038.2	3610.3	403.6	340.6	315.1	301.6	289.6	265.6	243.1	228.1	226.6
47.5°	6479.3	3640.3	366.1	310.6	289.6	276.1	259.6	229.6	199.6	186.1	181.6
50°	6687.9	3494.7	327.1	280.6	264.1	249.1	228.1	193.6	160.6	144.1	141.1
52.5°	6761.4	3242.7	295.6	253.6	238.6	220.6	195.1	156.1	126.0	109.5	108.0
55°	6731.4	2924.5	267.1	228.1	208.6	187.6	162.1	124.5	93.0	79.5	76.5
57.5°	6573.9	2519.4	238.6	202.6	178.6	157.6	129.0	93.0	63.0	51.0	49.5
60°	6149.2	1967.2	210.1	174.1	151.6	129.0	102.0	66.0	39.0	28.5	28.5
62.5°	5431.9	1460.0	183.1	145.6	127.5	103.5	72.0	42.0	21.0	15.0	13.5
65°	4539.1	1077.4	153.1	123.0	106.5	81.0	51.0	25.5	10.5	4.5	3.0
67.5°	3167.6	664.7	127.5	100.5	87.0	58.5	31.5	10.5	4.5	0.0	0.0
70°	1439.0	316.6	97.5	76.5	66.0	42.0	16.5	6.0	3.0	0.0	0.0
72.5°	447.2	166.6	69.0	55.5	45.0	27.0	9.0	4.5	3.0	0.0	0.0
75°	207.1	106.5	43.5	30.0	25.5	13.5	6.0	3.0	1.5	0.0	0.0
77.5°	154.6	82.5	25.5	16.5	13.5	9.0	4.5	3.0	1.5	0.0	0.0
80°	135.0	42.0	15.0	10.5	7.5	6.0	3.0	1.5	0.0	0.0	0.0
82.5°	121.5	21.0	9.0	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0
85°	66.0	12.0	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	12.0	6.0	4.5	3.0	3.0	1.5	1.5	1.5	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)