

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: P458898

Luminaire Tested: **GALN-SA4B-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17346 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

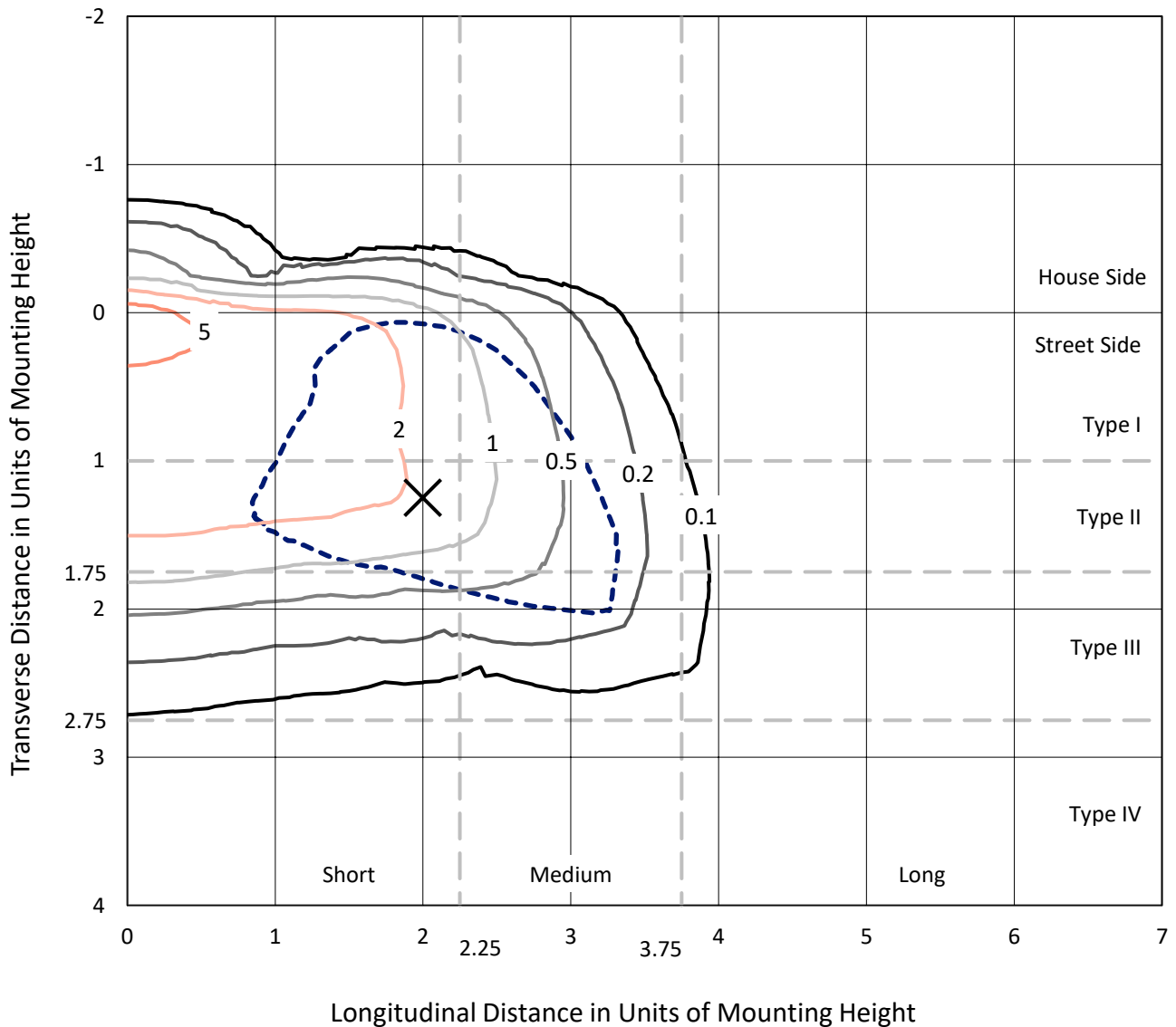
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

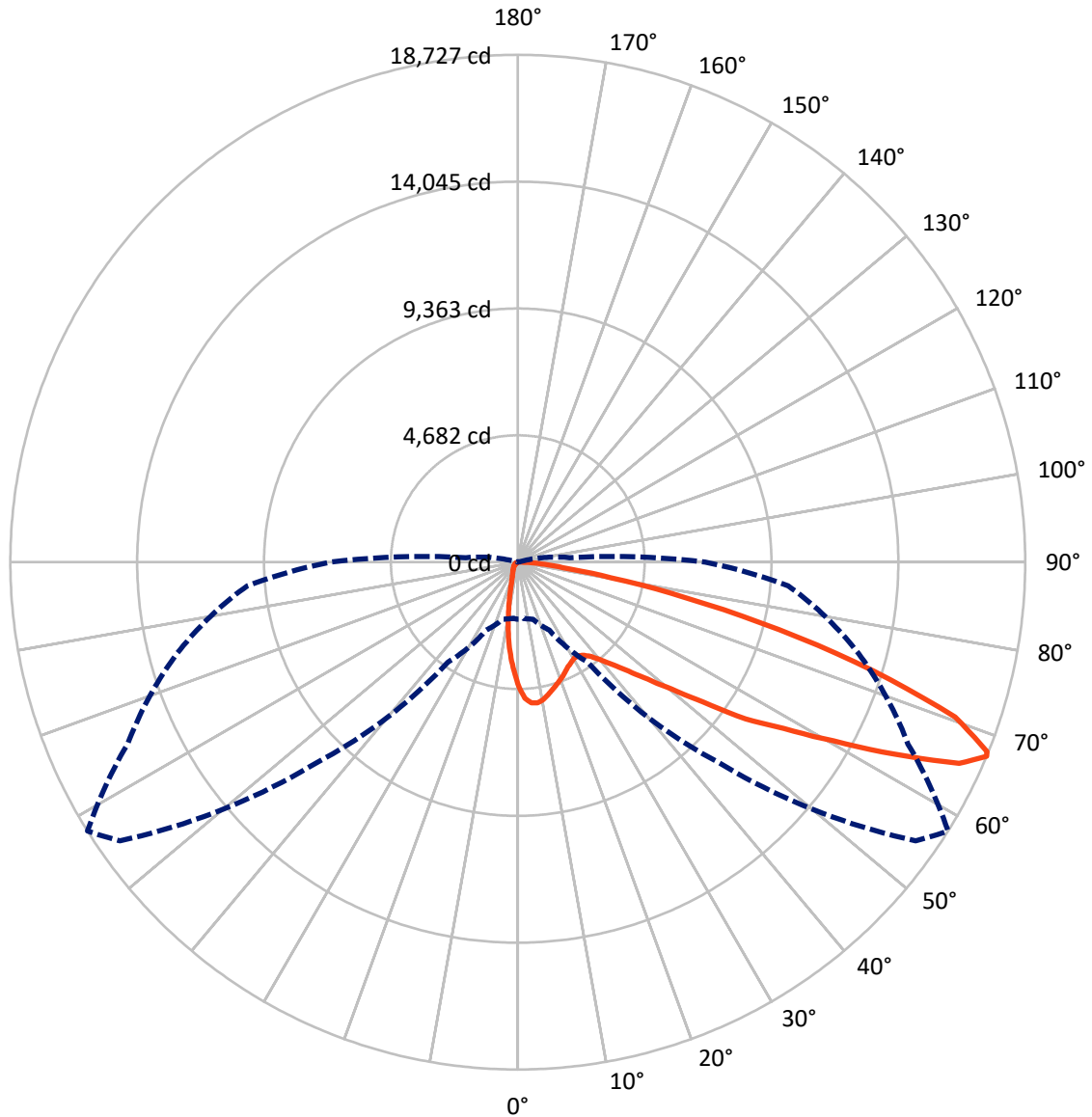
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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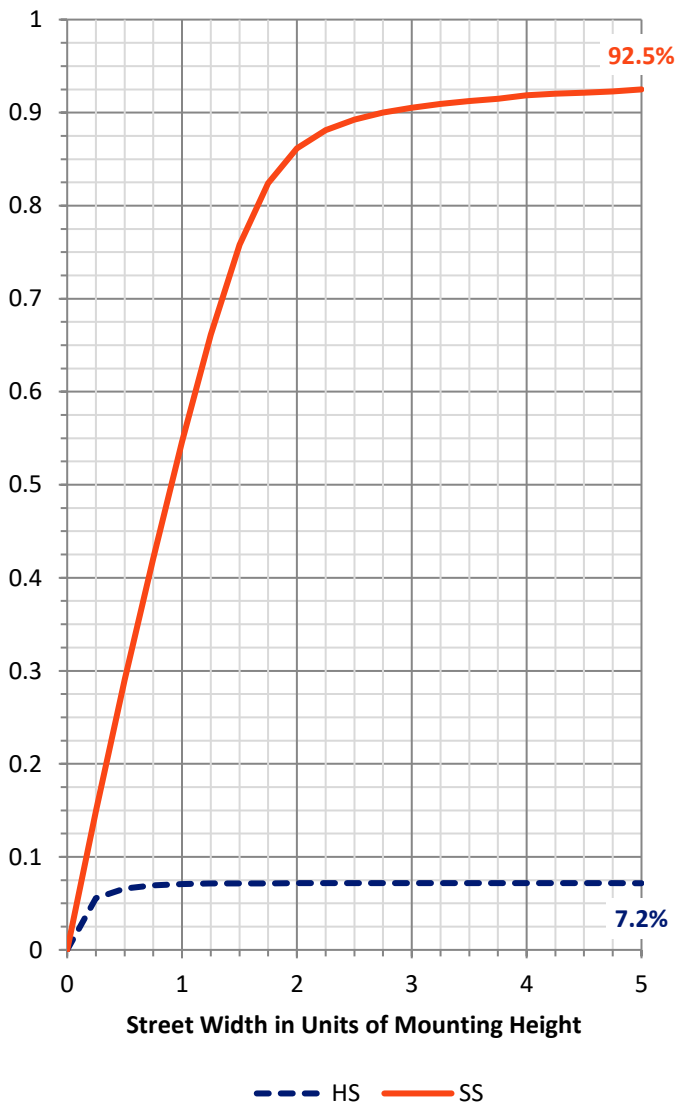
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1251.8	0.0	1251.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16094.2	0.0	16094.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	17346.0	0.0	17346.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.1	2.2
10°-20°	805.9	4.6
20°-30°	1092.0	6.3
30°-40°	1514.6	8.7
40°-50°	2415.6	13.9
50°-60°	4175.6	24.1
60°-70°	4769.8	27.5
70°-80°	1988.6	11.5
80°-90°	210.8	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°	17346.0	100.0
0°-180°	17346.0	100.0



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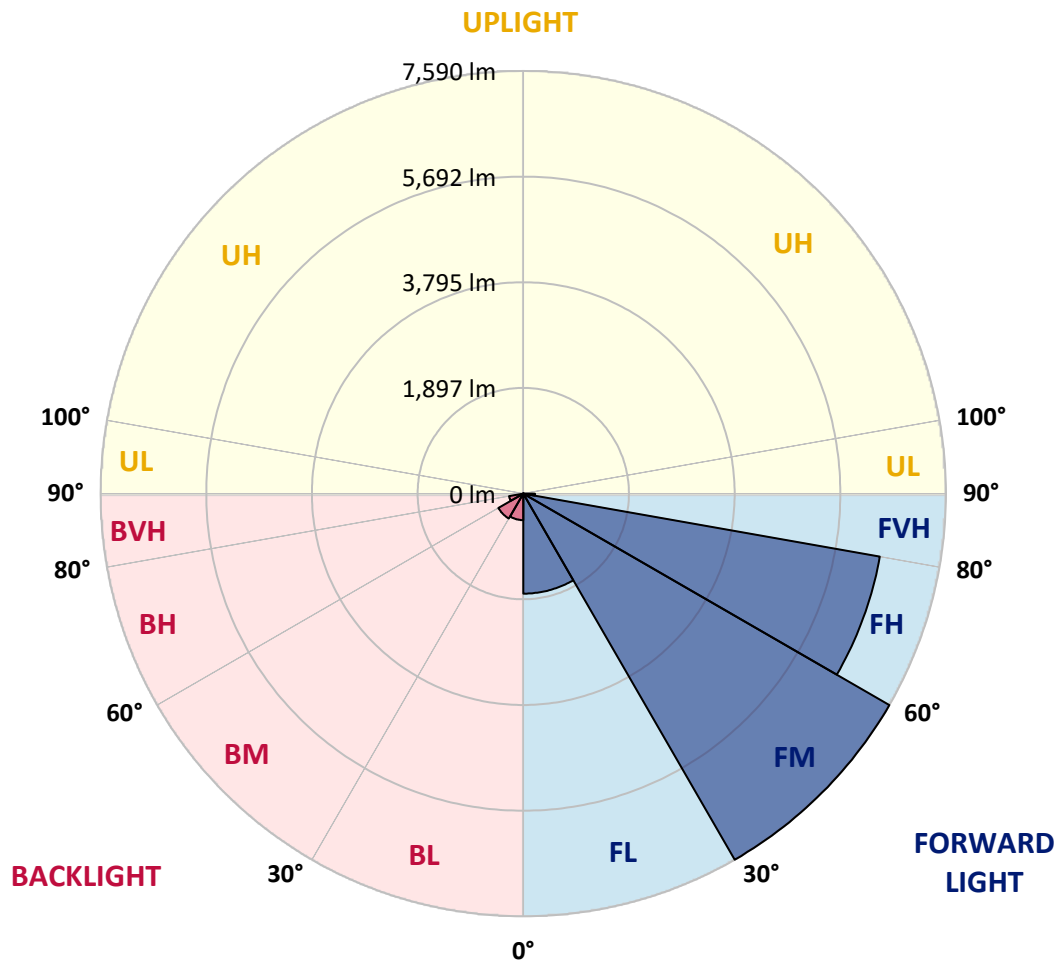
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1795.7	10.4			
FM (30°-60°)	7589.6	43.8			
FH (60°-80°)	6499.6	37.5			G3/7500
FVH (80°-90°)	209.3	1.2			G2/225
BL (0°-30°)	475.3	2.7	B1/500		
BM (30°-60°)	516.1	3.0	B1/1000		
BH (60°-80°)	258.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3
2.5°	5336.6	5344.7	5314.6	5290.3	5227.7	5160.4	5071.2	5023.7	4942.5	4802.3	4646.9
5°	5461.8	5472.2	5467.6	5461.8	5437.5	5372.6	5259.0	5217.2	5097.8	4869.5	4589.0
7.5°	5183.6	5221.9	5226.5	5271.7	5314.6	5320.4	5277.5	5246.2	5136.1	4868.3	4485.8
10°	4815.0	4840.5	4877.6	4929.8	5032.9	5118.7	5160.4	5155.8	5092.1	4832.4	4365.3
12.5°	4442.9	4456.9	4513.6	4602.9	4729.2	4875.3	4986.6	5008.6	5009.8	4789.5	4264.4
15°	4123.0	4117.2	4161.3	4264.4	4441.8	4624.9	4824.3	4859.1	4914.7	4747.8	4170.5
17.5°	3849.5	3879.6	3886.6	4000.2	4163.6	4401.2	4655.1	4716.5	4827.8	4711.9	4092.9
20°	3680.2	3696.5	3711.5	3775.3	3922.5	4172.9	4496.3	4580.9	4746.6	4679.4	4006.0
22.5°	3630.4	3640.8	3628.1	3647.8	3752.1	3974.7	4323.6	4436.0	4669.0	4649.3	3935.2
25°	3668.6	3679.1	3648.9	3625.8	3661.7	3813.5	4156.6	4293.4	4606.4	4643.5	3881.9
27.5°	3761.4	3781.1	3739.4	3697.6	3676.8	3726.6	4025.7	4184.5	4563.5	4671.3	3857.6
30°	3906.3	3917.9	3886.6	3835.6	3788.0	3738.2	3957.3	4109.1	4551.9	4736.2	3855.3
32.5°	4063.9	4088.2	4070.9	4037.2	3975.8	3857.6	3977.0	4111.4	4579.7	4830.1	3884.2
35°	4258.6	4286.5	4302.7	4295.7	4216.9	4069.7	4102.2	4215.8	4653.9	5002.8	3963.1
37.5°	4449.9	4474.2	4565.8	4597.1	4527.6	4388.5	4345.6	4420.9	4817.3	5228.8	4105.6
40°	4669.0	4701.4	4830.1	4949.5	4915.9	4769.8	4691.0	4753.6	5067.7	5569.6	4375.7
42.5°	4878.8	4936.7	5132.6	5343.6	5374.9	5211.4	5159.3	5180.1	5438.6	6059.9	4752.4
45°	5176.7	5231.1	5483.8	5770.1	5917.4	5789.9	5736.5	5733.1	5947.5	6749.6	5363.3
47.5°	5606.7	5655.4	5953.3	6236.1	6498.1	6515.5	6414.6	6449.4	6587.3	7556.4	6112.1
50°	6134.1	6248.9	6444.8	6739.2	7089.2	7372.1	7403.4	7357.0	7475.2	8490.6	7011.6
52.5°	6900.3	6944.3	7124.0	7366.3	7776.6	8256.5	8628.6	8564.8	8527.7	9380.8	7920.3
55°	7471.7	7530.9	7810.2	8142.9	8744.5	9377.4	10184.1	10206.1	9737.8	10236.3	8809.4
57.5°	7299.0	7389.4	7812.5	8481.3	9803.9	10960.7	11561.2	11576.2	10857.6	11067.4	9813.2
60°	6412.3	6455.2	7061.4	7953.9	9894.3	12676.2	13514.3	13392.6	11997.0	11997.0	10699.9
62.5°	4547.3	4614.5	5106.0	6419.3	8935.7	13272.0	15853.4	15601.9	13566.4	12886.0	11228.5
65°	2905.9	2841.0	3166.7	4052.3	6656.9	12392.2	17890.0	17905.1	15043.2	13241.9	10939.9
67°	2105.0	2079.5	2173.4	2770.3	4513.6	10417.1	17932.9	18726.9	15891.7	13017.0	10017.2
67.5°	1925.3	1945.0	2013.4	2499.1	4101.0	9479.4	17738.2	18678.2	16082.9	12881.4	9683.4
70°	1459.3	1425.7	1499.9	1767.7	2458.5	5979.9	15258.8	17130.8	15845.3	11535.7	7737.2
72.5°	1073.4	1069.9	1173.0	1445.4	1892.9	3185.3	11454.5	13735.7	12945.2	8783.9	4871.8
75°	724.5	756.9	921.5	1207.8	1715.5	2065.6	7809.1	9965.0	8986.7	4987.7	1991.4
77.5°	412.6	415.0	593.5	970.2	1540.5	1662.2	4627.2	6348.6	4757.1	1658.7	591.2
80°	178.5	195.9	294.4	704.8	1277.4	1472.1	2653.2	3489.0	1924.2	351.2	191.3
82.5°	66.1	77.7	129.8	433.5	931.9	1212.4	1603.1	1665.7	652.6	124.0	119.4
85°	0.0	2.3	47.5	202.8	485.7	541.3	1071.0	987.6	288.6	59.1	77.7
87.5°	0.0	0.0	0.0	20.9	63.8	201.7	332.7	370.9	69.5	20.9	18.5
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°	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3
2.5°	4563.5	4488.1	4299.2	4110.3	3970.0	3852.9	3676.8	3580.5	3529.5	3454.2	3458.8
5°	4448.7	4295.7	3963.1	3618.8	3340.6	3069.4	2744.8	2613.8	2503.7	2441.1	2399.4
7.5°	4278.3	4052.3	3559.7	3100.7	2673.0	2198.9	1843.0	1605.4	1445.4	1386.3	1329.5
10°	4091.7	3791.5	3150.5	2514.2	1920.7	1431.5	1130.2	912.2	834.6	762.7	769.7
12.5°	3919.0	3553.9	2775.0	1984.4	1345.7	909.9	709.4	620.1	594.6	586.5	586.5
15°	3777.6	3326.7	2371.6	1491.8	922.7	653.7	568.0	543.6	534.4	532.0	532.0
17.5°	3626.9	3111.1	2007.6	1102.3	671.1	547.1	518.1	501.9	498.4	496.1	496.1
20°	3492.5	2894.3	1662.2	820.7	542.5	492.6	474.1	463.7	460.2	457.9	459.0
22.5°	3365.0	2701.9	1337.6	620.1	477.6	448.6	430.0	419.6	412.6	406.9	408.0
25°	3251.4	2516.5	1075.7	507.7	430.0	404.5	386.0	370.9	355.9	348.9	347.7
27.5°	3171.4	2354.2	838.1	434.7	387.1	359.3	336.1	317.6	297.9	287.5	285.1
30°	3105.3	2189.6	663.0	383.7	344.3	317.6	288.6	262.0	241.1	230.7	226.0
32.5°	3062.4	2033.1	522.8	341.9	308.3	275.9	243.4	216.8	193.6	183.1	180.8
35°	3055.5	1902.1	427.7	307.2	275.9	241.1	207.5	178.5	158.8	148.4	146.1
37.5°	3105.3	1801.3	358.2	279.4	249.2	211.0	173.9	147.2	129.8	121.7	120.5
40°	3238.6	1737.5	310.6	256.2	224.9	183.1	148.4	125.2	107.8	99.7	99.7
42.5°	3492.5	1739.9	279.4	234.1	200.5	156.5	126.3	104.3	89.3	82.3	80.0
45°	3888.9	1818.7	252.7	212.1	177.3	135.6	107.8	85.8	70.7	64.9	64.9
47.5°	4419.8	1975.2	229.5	190.1	156.5	115.9	91.6	69.5	56.8	51.0	51.0
50°	5114.1	2226.7	209.8	171.6	139.1	99.7	74.2	56.8	44.0	39.4	38.3
52.5°	5839.7	2537.3	186.6	155.3	119.4	84.6	60.3	44.0	33.6	30.1	29.0
55°	6640.7	2841.0	164.6	139.1	97.4	70.7	47.5	34.8	24.3	20.9	20.9
57.5°	7448.6	3138.9	137.9	115.9	76.5	52.2	37.1	25.5	16.2	12.8	12.8
60°	8132.5	3235.1	117.1	93.9	58.0	37.1	26.7	16.2	9.3	5.8	5.8
62.5°	8226.3	2910.6	98.5	71.9	41.7	25.5	13.9	9.3	3.5	2.3	2.3
65°	7716.3	2364.6	82.3	54.5	27.8	12.8	5.8	3.5	1.2	0.0	0.0
67°	6914.2	1917.2	67.2	40.6	19.7	8.1	3.5	1.2	0.0	0.0	0.0
67.5°	6709.0	1827.9	64.9	38.3	17.4	7.0	2.3	1.2	0.0	0.0	0.0
70°	5264.8	1368.9	46.4	23.2	10.4	4.6	0.0	0.0	0.0	0.0	0.0
72.5°	3272.2	774.3	33.6	13.9	7.0	2.3	0.0	0.0	0.0	0.0	0.0
75°	1236.8	271.2	23.2	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	384.8	103.2	13.9	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	129.8	39.4	9.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	80.0	16.2	5.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.8	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	2.3	1.2	0.0	0.0	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)