

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: P453591

Luminaire Tested: **GALN-SA4C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453591
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-SA4C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 16912 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

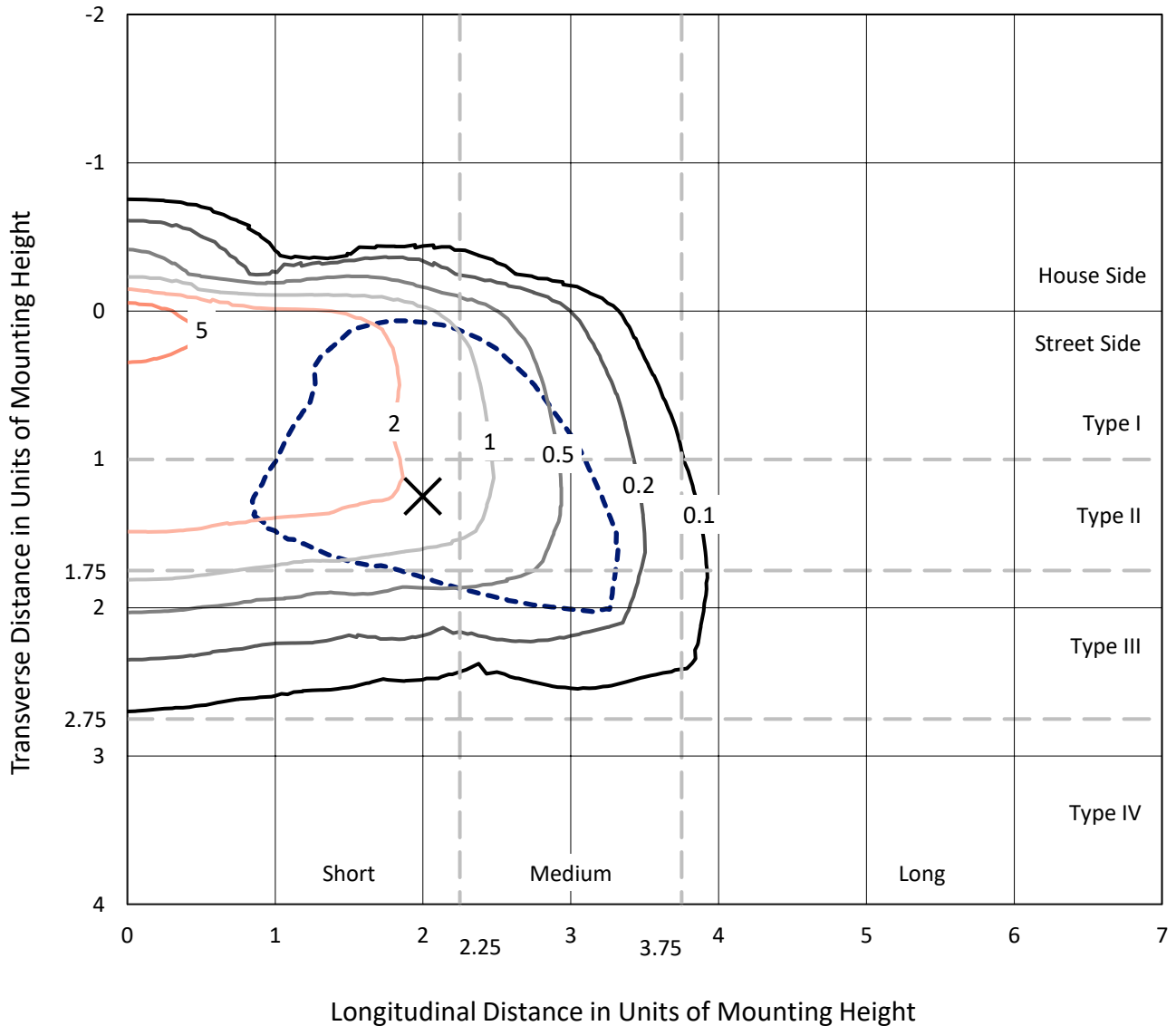
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

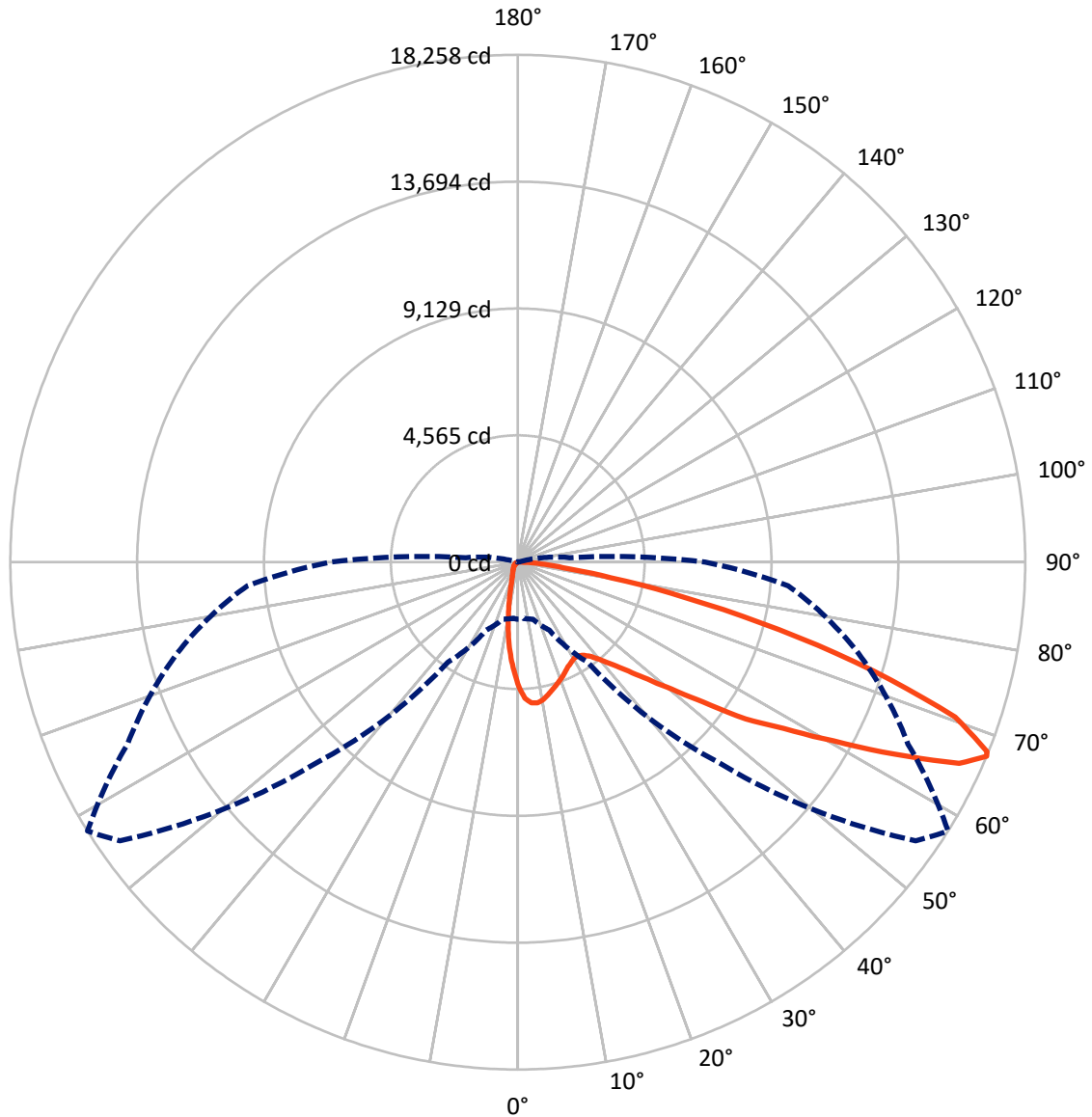
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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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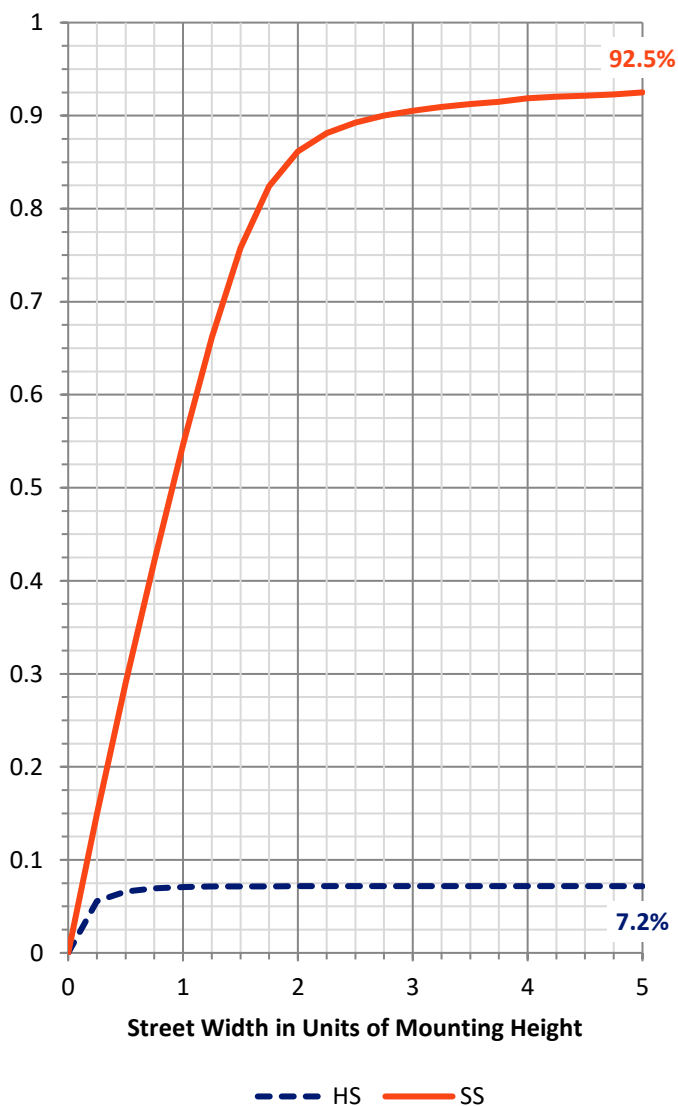
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.5	0.0	1220.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15691.5	0.0	15691.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	16912.0	0.0	16912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.8	2.2
10°-20°	785.7	4.6
20°-30°	1064.7	6.3
30°-40°	1476.7	8.7
40°-50°	2355.2	13.9
50°-60°	4071.1	24.1
60°-70°	4650.4	27.5
70°-80°	1938.8	11.5
80°-90°	205.6	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°	16912.0	100.0
0°-180°	16912.0	100.0

Coefficient of Utilization



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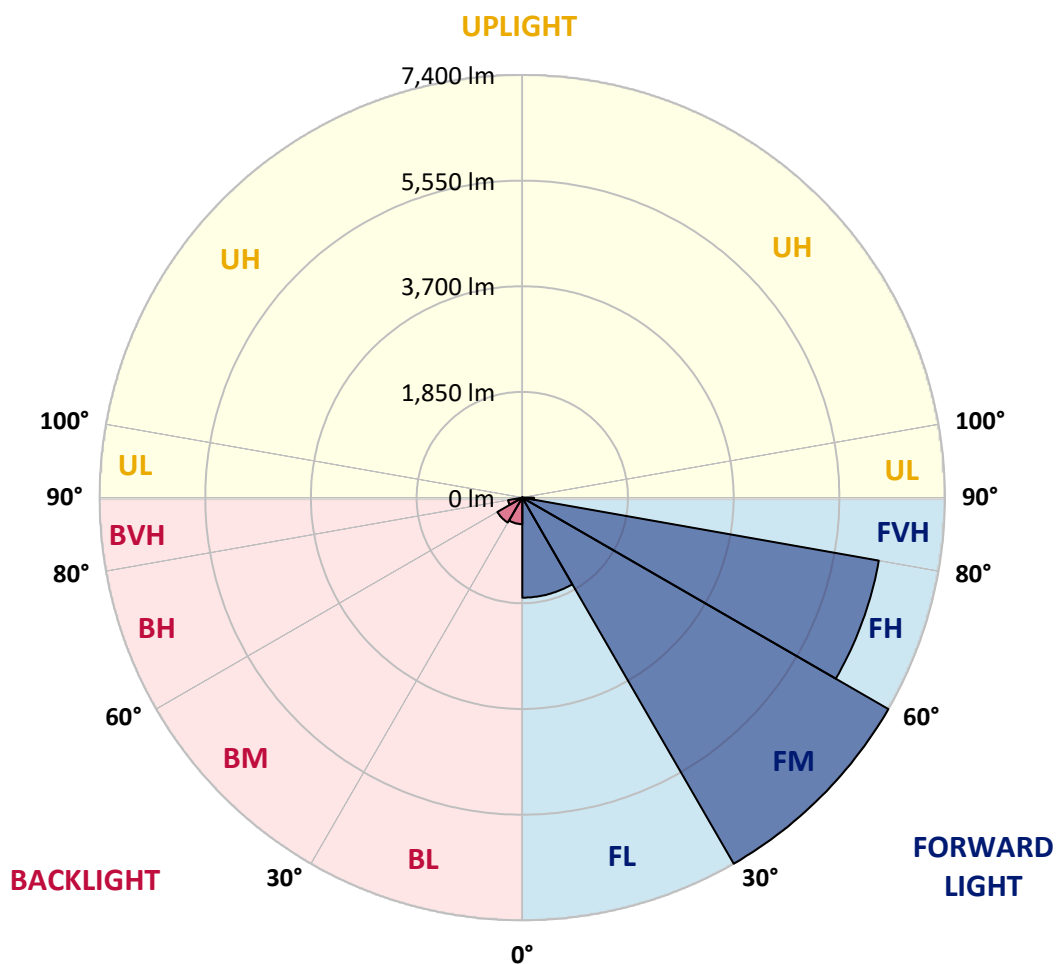
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1750.8	10.4			
FM (30°-60°)	7399.7	43.8			
FH (60°-80°)	6336.9	37.5			G3/7500
FVH (80°-90°)	204.1	1.2			G2/225
BL (0°-30°)	463.4	2.7	B1/500		
BM (30°-60°)	503.2	3.0	B1/1000		
BH (60°-80°)	252.3	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°	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2
2.5°	5203.1	5211.0	5181.6	5157.9	5096.9	5031.3	4944.3	4898.0	4818.9	4682.1	4530.7
5°	5325.2	5335.3	5330.8	5325.2	5301.4	5238.1	5127.4	5086.7	4970.3	4747.7	4474.2
7.5°	5053.9	5091.2	5095.7	5139.8	5181.6	5187.3	5145.5	5115.0	5007.6	4746.5	4373.6
10°	4694.5	4719.4	4755.6	4806.4	4907.0	4990.6	5031.3	5026.8	4964.7	4711.5	4256.1
12.5°	4331.8	4345.3	4400.7	4487.7	4610.9	4753.3	4861.8	4883.3	4884.4	4669.7	4157.7
15°	4019.9	4014.2	4057.2	4157.7	4330.6	4509.2	4703.6	4737.5	4791.7	4629.0	4066.2
17.5°	3753.2	3782.5	3789.3	3900.1	4059.4	4291.1	4538.6	4598.5	4707.0	4594.0	3990.5
20°	3588.2	3604.0	3618.7	3680.8	3824.4	4068.5	4383.8	4466.3	4627.9	4562.3	3905.7
22.5°	3539.6	3549.7	3537.3	3556.5	3658.2	3875.2	4215.4	4325.0	4552.2	4532.9	3836.8
25°	3576.9	3587.0	3557.6	3535.0	3570.1	3718.1	4052.6	4186.0	4491.1	4527.3	3784.8
27.5°	3667.3	3686.5	3645.8	3605.1	3584.8	3633.4	3924.9	4079.8	4449.3	4554.4	3761.1
30°	3808.5	3819.8	3789.3	3739.6	3693.3	3644.7	3858.3	4006.3	4438.0	4617.7	3758.8
32.5°	3962.2	3986.0	3969.0	3936.2	3876.3	3761.1	3877.5	4008.6	4465.1	4709.2	3787.1
35°	4152.1	4179.2	4195.0	4188.3	4111.4	3967.9	3999.5	4110.3	4537.5	4877.6	3863.9
37.5°	4338.6	4362.3	4451.6	4482.1	4414.3	4278.7	4236.8	4310.3	4696.8	5098.0	4002.9
40°	4552.2	4583.8	4709.2	4825.6	4792.9	4650.5	4573.6	4634.7	4940.9	5430.3	4266.2
42.5°	4756.7	4813.2	5004.2	5209.9	5240.4	5081.1	5030.2	5050.5	5302.6	5908.3	4633.5
45°	5047.1	5100.3	5346.6	5625.8	5769.3	5645.0	5593.0	5589.6	5798.7	6580.7	5229.1
47.5°	5466.4	5513.9	5804.3	6080.1	6335.5	6352.4	6254.1	6288.0	6422.5	7367.3	5959.2
50°	5980.6	6092.5	6283.5	6570.6	6911.9	7187.6	7218.1	7172.9	7288.2	8278.2	6836.1
52.5°	6727.6	6770.6	6945.8	7182.0	7582.0	8049.9	8412.7	8350.5	8314.3	9146.1	7722.2
55°	7284.8	7342.4	7614.8	7939.1	8525.7	9142.7	9929.3	9950.8	9494.2	9980.2	8589.0
57.5°	7116.4	7204.6	7617.1	8269.1	9558.6	10686.5	11271.9	11286.6	10585.9	10790.5	9567.7
60°	6251.9	6293.7	6884.7	7754.9	9646.8	12359.1	13176.2	13057.5	11696.8	11696.8	10432.2
62.5°	4433.5	4499.0	4978.2	6258.6	8712.2	12940.0	15456.8	15211.5	13227.0	12563.6	10947.5
65°	2833.2	2769.9	3087.5	3950.9	6490.3	12082.2	17442.4	17457.1	14666.8	12910.6	10666.1
67°	2052.3	2027.4	2119.0	2701.0	4400.7	10156.5	17484.2	18258.3	15494.0	12691.3	9766.6
67.5°	1877.1	1896.4	1963.0	2436.6	3998.4	9242.2	17294.3	18210.9	15680.5	12559.1	9441.1
70°	1422.8	1390.1	1462.4	1723.4	2397.0	5830.3	14877.0	16702.2	15448.8	11247.0	7543.6
72.5°	1046.5	1043.1	1143.7	1409.3	1845.5	3105.6	11167.9	13392.0	12621.3	8564.1	4749.9
75°	706.3	738.0	898.5	1177.6	1672.6	2013.9	7613.7	9715.7	8761.9	4862.9	1941.6
77.5°	402.3	404.6	578.6	945.9	1501.9	1620.6	4511.5	6189.7	4638.0	1617.2	576.4
80°	174.0	191.0	287.1	687.1	1245.4	1435.3	2586.9	3401.7	1876.0	342.4	186.5
82.5°	64.4	75.7	126.6	422.7	908.6	1182.1	1563.0	1624.0	636.3	120.9	116.4
85°	0.0	2.3	46.3	197.8	473.5	527.8	1044.2	962.9	281.4	57.6	75.7
87.5°	0.0	0.0	0.0	20.3	62.2	196.6	324.3	361.6	67.8	20.3	18.1
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°	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2	4483.2
2.5°	4449.3	4375.9	4191.6	4007.4	3870.7	3756.5	3584.8	3491.0	3441.2	3367.8	3372.3
5°	4337.4	4188.3	3863.9	3528.3	3257.0	2992.6	2676.1	2548.4	2441.1	2380.0	2339.4
7.5°	4171.3	3950.9	3470.6	3023.1	2606.1	2143.9	1796.9	1565.2	1409.3	1351.6	1296.3
10°	3989.4	3696.6	3071.7	2451.2	1872.6	1395.7	1101.9	889.4	813.7	743.6	750.4
12.5°	3821.0	3465.0	2705.5	1934.8	1312.1	887.2	691.6	604.6	579.8	571.8	571.8
15°	3683.1	3243.5	2312.2	1454.5	899.6	637.4	553.8	530.0	521.0	518.7	518.7
17.5°	3536.2	3033.3	1957.4	1074.8	654.3	533.4	505.2	489.3	486.0	483.7	483.7
20°	3405.1	2821.9	1620.6	800.1	528.9	480.3	462.2	452.1	448.7	446.4	447.5
22.5°	3280.8	2634.3	1304.2	604.6	465.6	437.4	419.3	409.1	402.3	396.7	397.8
25°	3170.0	2453.5	1048.8	495.0	419.3	394.4	376.3	361.6	346.9	340.2	339.0
27.5°	3092.0	2295.3	817.1	423.8	377.5	350.3	327.7	309.7	290.4	280.3	278.0
30°	3027.6	2134.8	646.4	374.1	335.6	309.7	281.4	255.4	235.1	224.9	220.4
32.5°	2985.8	1982.2	509.7	333.4	300.6	269.0	237.3	211.3	188.7	178.6	176.3
35°	2979.0	1854.5	417.0	299.5	269.0	235.1	202.3	174.0	154.8	144.7	142.4
37.5°	3027.6	1756.2	349.2	272.4	243.0	205.7	169.5	143.5	126.6	118.7	117.5
40°	3157.6	1694.1	302.9	249.8	219.2	178.6	144.7	122.1	105.1	97.2	97.2
42.5°	3405.1	1696.3	272.4	228.3	195.5	152.6	123.2	101.7	87.0	80.2	78.0
45°	3791.6	1773.2	246.4	206.8	172.9	132.2	105.1	83.6	68.9	63.3	63.3
47.5°	4309.2	1925.7	223.8	185.3	152.6	113.0	89.3	67.8	55.4	49.7	49.7
50°	4986.1	2171.0	204.6	167.3	135.6	97.2	72.3	55.4	42.9	38.4	37.3
52.5°	5693.6	2473.8	182.0	151.4	116.4	82.5	58.8	42.9	32.8	29.4	28.3
55°	6474.5	2769.9	160.5	135.6	94.9	68.9	46.3	33.9	23.7	20.3	20.3
57.5°	7262.2	3060.4	134.5	113.0	74.6	50.9	36.2	24.9	15.8	12.4	12.4
60°	7929.0	3154.2	114.1	91.5	56.5	36.2	26.0	15.8	9.0	5.7	5.7
62.5°	8020.5	2837.8	96.1	70.1	40.7	24.9	13.6	9.0	3.4	2.3	2.3
65°	7523.3	2305.5	80.2	53.1	27.1	12.4	5.7	3.4	1.1	0.0	0.0
67°	6741.2	1869.2	65.5	39.6	19.2	7.9	3.4	1.1	0.0	0.0	0.0
67.5°	6541.2	1782.2	63.3	37.3	17.0	6.8	2.3	1.1	0.0	0.0	0.0
70°	5133.0	1334.7	45.2	22.6	10.2	4.5	0.0	0.0	0.0	0.0	0.0
72.5°	3190.4	754.9	32.8	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	1205.8	264.4	22.6	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	375.2	100.6	13.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	126.6	38.4	9.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.0	15.8	5.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	48.6	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.3	1.1	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)