

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: P453299

Luminaire Tested: **GALN-SA4B-750-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453299
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-SA4B-750-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 800mA 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: 18423 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

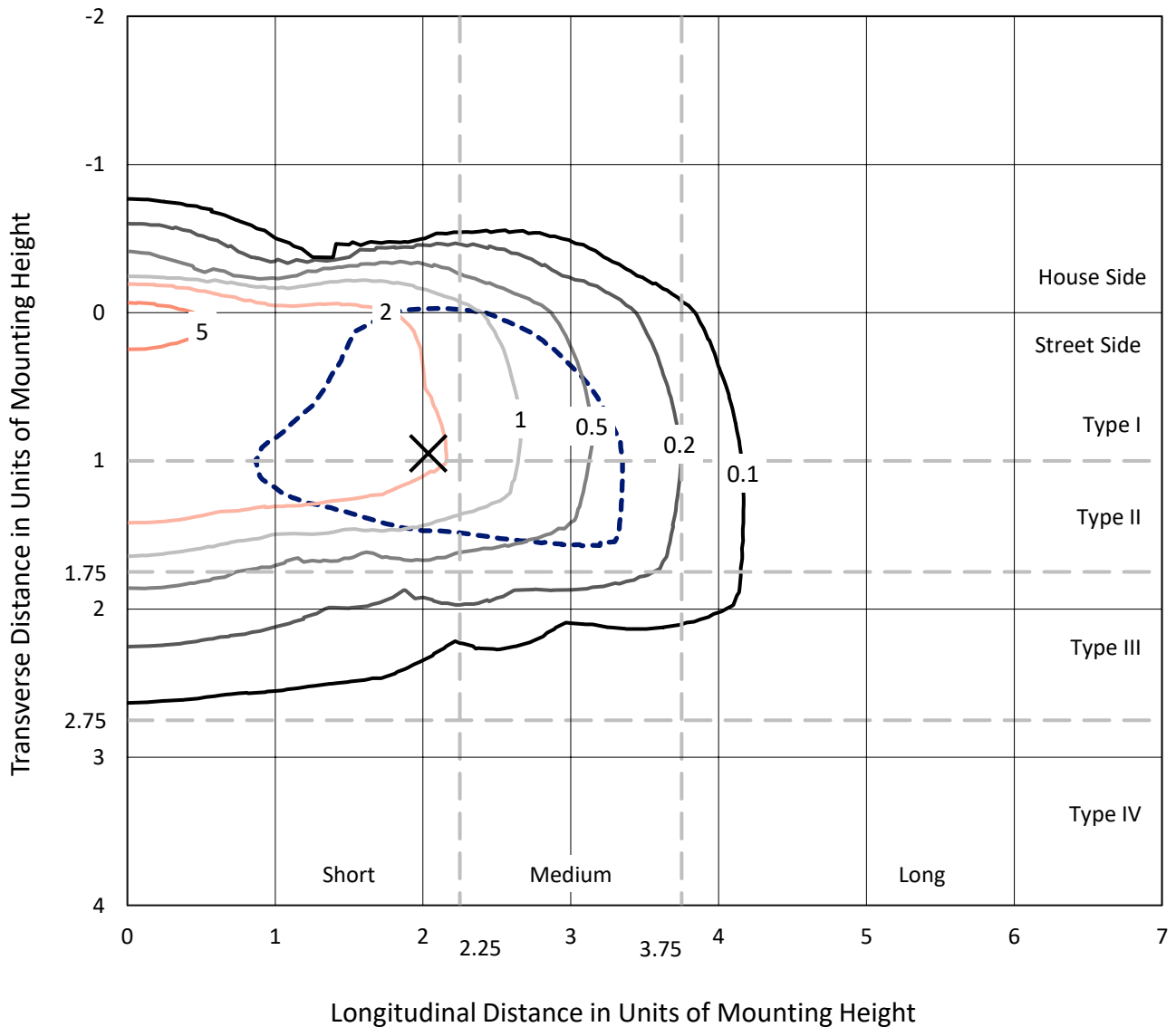
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

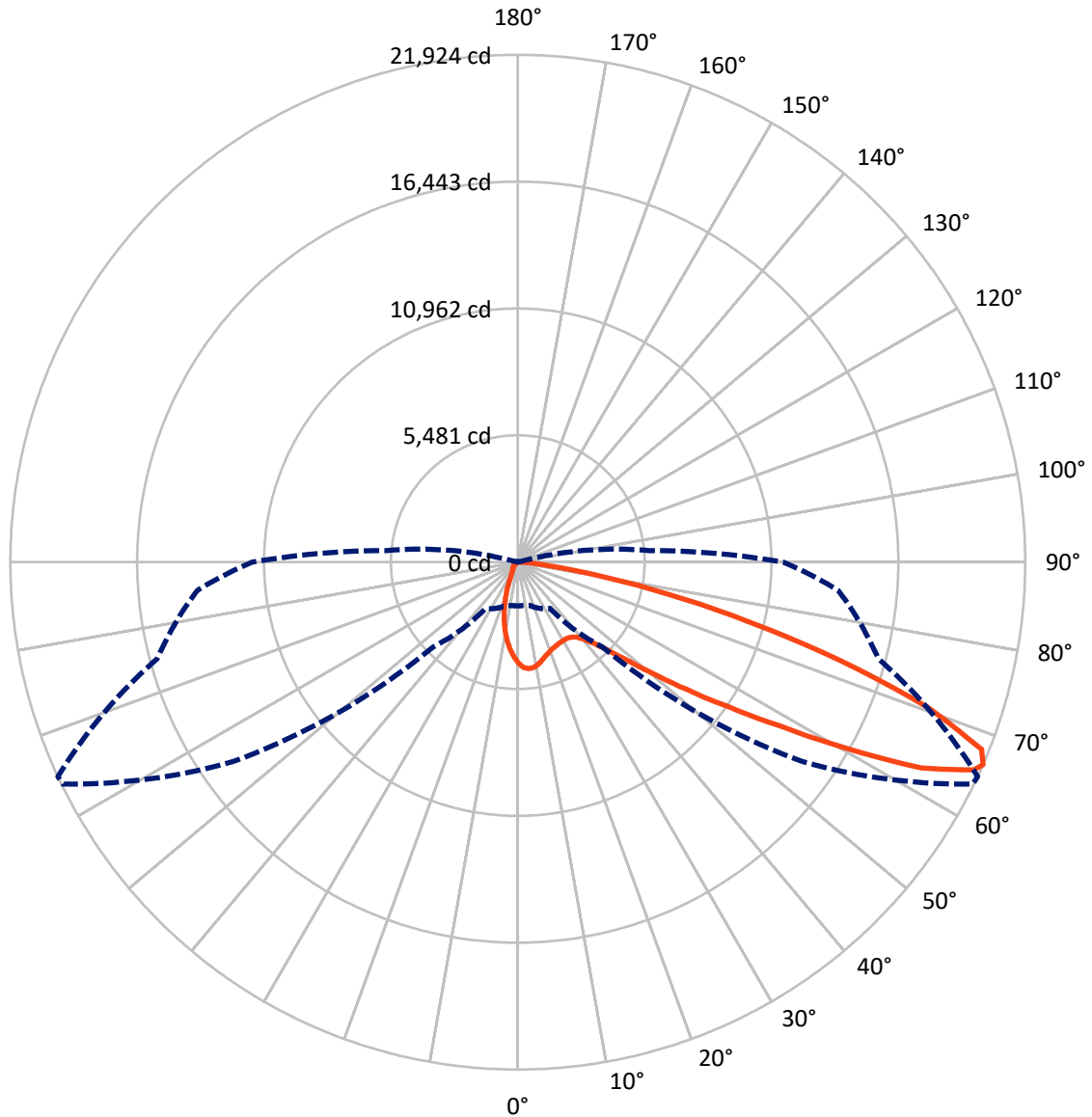
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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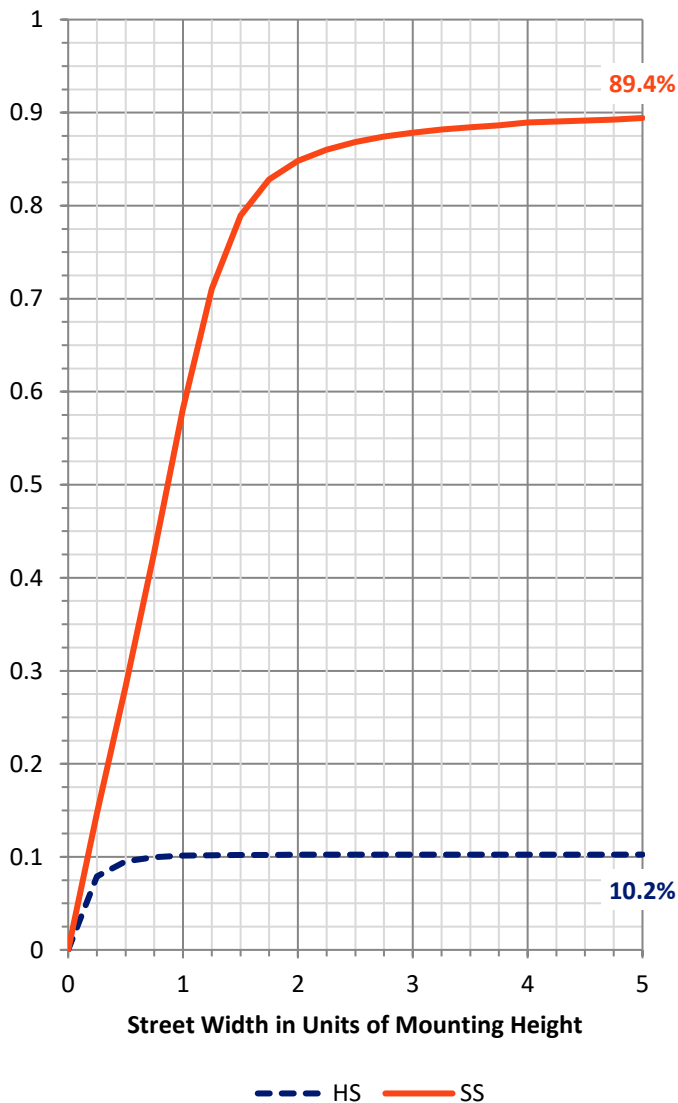
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1905.2	0.0	1905.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16517.8	0.0	16517.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	18423.0	0.0	18423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.3	1.9
10°-20°	778.5	4.2
20°-30°	1115.2	6.1
30°-40°	1628.9	8.8
40°-50°	2731.3	14.8
50°-60°	4558.1	24.7
60°-70°	4838.3	26.3
70°-80°	2191.2	11.9
80°-90°	224.2	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°	18423.0	100.0
0°-180°	18423.0	100.0

Coefficient of Utilization



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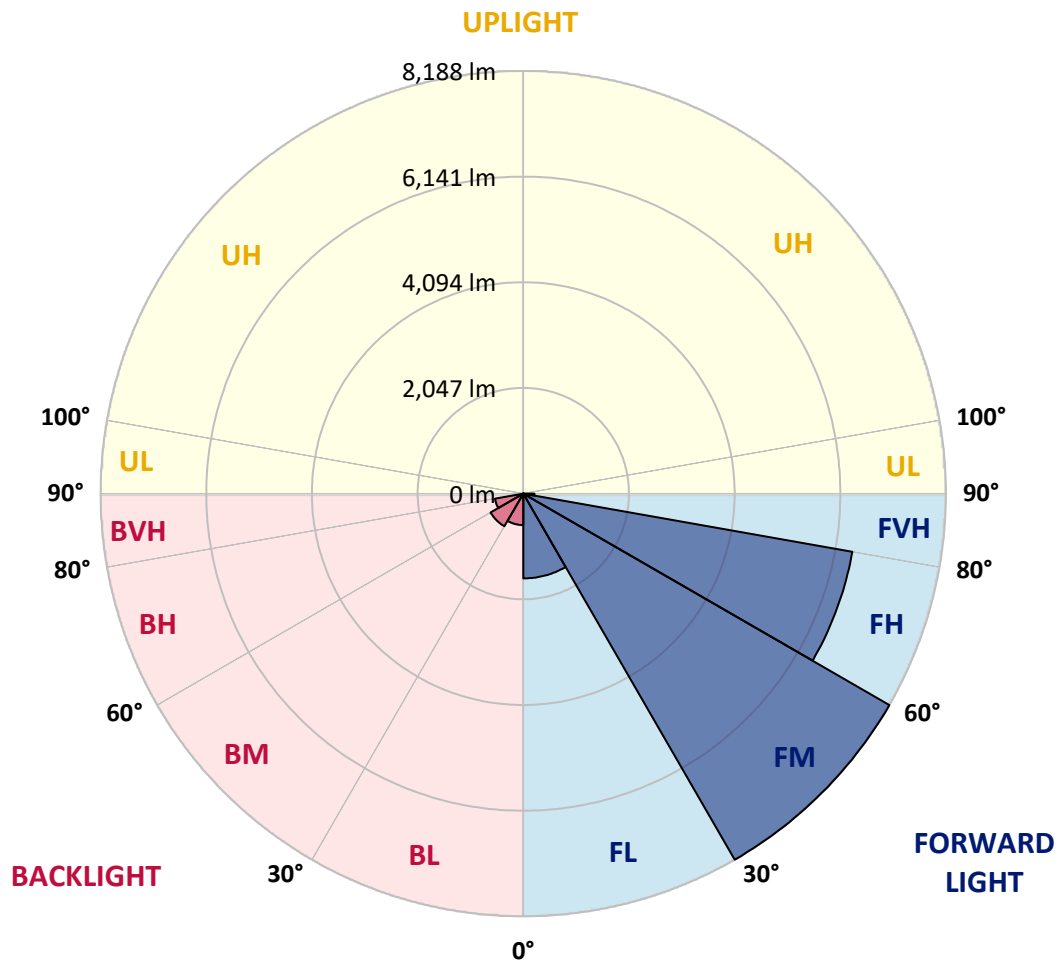
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.6	8.9			
FM (30°-60°)	8187.6	44.4			
FH (60°-80°)	6471.6	35.1			G3/7500
FVH (80°-90°)	217.1	1.2			G2/225
BL (0°-30°)	609.4	3.3	B2/1000		
BM (30°-60°)	730.7	4.0	B1/1000		
BH (60°-80°)	557.9	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8
2.5°	4603.9	4608.9	4615.1	4623.9	4630.1	4611.4	4585.3	4555.4	4549.2	4485.7	4408.6
5°	4357.6	4365.0	4419.8	4449.7	4516.8	4577.8	4616.4	4621.4	4618.9	4559.2	4436.0
7.5°	4006.7	4027.8	4081.3	4133.6	4259.3	4375.0	4511.9	4607.7	4613.9	4597.7	4444.7
10°	3721.7	3735.4	3762.8	3866.1	3970.6	4147.3	4338.9	4519.3	4534.3	4599.0	4437.2
12.5°	3499.0	3518.9	3552.5	3632.1	3757.8	3924.6	4142.3	4384.9	4416.1	4575.3	4416.1
15°	3343.5	3353.4	3387.0	3465.4	3587.3	3741.6	3961.9	4244.3	4271.7	4544.2	4412.3
17.5°	3270.0	3281.2	3304.9	3367.1	3467.9	3611.0	3826.3	4131.1	4166.0	4524.3	4426.0
20°	3290.0	3299.9	3301.2	3333.5	3401.9	3522.6	3726.7	4025.3	4070.1	4511.9	4448.4
22.5°	3403.2	3404.4	3389.5	3374.6	3398.2	3485.3	3665.7	3958.2	4004.2	4509.4	4474.5
25°	3572.4	3576.1	3551.3	3499.0	3451.7	3496.5	3652.1	3914.6	3955.7	4503.2	4490.7
27.5°	3806.3	3805.1	3797.6	3710.5	3576.1	3546.3	3663.2	3891.0	3925.8	4485.7	4496.9
30°	4133.6	4123.6	4107.5	4009.2	3803.9	3667.0	3710.5	3876.0	3908.4	4460.9	4480.8
32.5°	4455.9	4493.2	4490.7	4397.4	4141.1	3882.2	3808.8	3895.9	3919.6	4444.7	4457.1
35°	4831.7	4830.4	4926.2	4891.4	4591.5	4157.2	3976.8	3961.9	3980.5	4455.9	4445.9
37.5°	5180.1	5212.4	5361.7	5397.8	5124.1	4545.5	4214.5	4103.7	4110.0	4531.8	4473.3
40°	5614.3	5676.5	5899.3	6020.0	5778.6	5121.6	4565.4	4363.8	4365.0	4718.4	4576.6
42.5°	6174.3	6272.6	6480.4	6681.9	6552.5	5803.5	5091.7	4775.7	4773.2	5046.9	4813.0
45°	6854.9	6923.3	7159.8	7479.5	7397.4	6755.4	5858.2	5414.0	5381.6	5585.7	5232.3
47.5°	7442.2	7535.5	7775.7	8140.3	8513.6	7917.5	6774.0	6291.2	6270.1	6443.0	5951.5
50°	7698.5	7780.7	8033.3	8544.7	9449.3	9443.1	8137.8	7571.6	7535.5	7628.9	7063.9
52.5°	7417.3	7494.5	7749.6	8386.7	9889.8	11302.1	10113.8	9178.0	9134.5	9015.0	8392.9
55°	6454.2	6517.7	6894.7	7626.4	9720.6	12541.4	12836.3	11162.7	10993.5	10529.4	9897.2
57.5°	5139.0	5106.6	5340.6	6190.4	8727.6	12957.0	15631.0	13635.2	13332.8	11838.4	11170.2
60°	3561.2	3660.8	3755.3	4315.3	6562.5	12236.5	17369.3	16743.4	16345.3	13126.2	12389.6
62.5°	2618.0	2684.0	2746.2	3005.0	4126.1	9770.3	17676.7	19936.3	19583.0	14493.7	13553.0
65°	2070.5	2075.5	2100.4	2355.5	2718.8	6353.4	16199.7	21736.9	21646.0	15810.2	14024.6
66°	1886.4	1887.6	1926.2	2199.9	2440.1	5173.8	15016.3	21873.7	21923.5	16126.3	13886.5
67.5°	1648.7	1643.7	1699.7	1977.2	2222.3	3730.4	12898.5	21318.8	21613.7	16368.9	13390.0
70°	1277.9	1271.7	1340.1	1658.7	2046.9	2488.6	8573.3	18305.0	18780.4	15872.4	11847.1
72.5°	851.1	856.1	973.1	1309.0	1953.6	2191.2	5157.7	13925.1	14597.0	13107.6	9319.9
75°	496.5	505.2	638.3	973.1	1696.0	2089.2	2919.2	9929.6	10358.9	9051.1	5806.0
77.5°	260.1	263.8	357.1	642.1	1300.3	1939.9	1944.9	6343.5	6545.1	4398.6	2298.2
80°	138.1	134.4	191.6	387.0	894.7	1703.5	1577.8	3358.4	3491.5	1306.5	581.1
82.5°	52.3	57.2	102.0	253.8	528.8	1223.2	1358.8	1484.5	1438.4	287.4	243.9
85°	10.0	12.4	43.6	150.6	266.3	511.4	1001.7	727.9	674.4	108.3	140.6
87.5°	1.2	2.5	12.4	36.1	38.6	173.0	296.1	201.6	174.2	39.8	58.5
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°	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8	4368.8
2.5°	4371.3	4337.7	4225.7	4114.9	4001.7	3899.7	3830.0	3716.8	3688.1	3647.1	3623.4
5°	4362.6	4284.2	4068.9	3833.7	3614.7	3378.3	3197.9	3023.7	2930.4	2883.1	2865.6
7.5°	4337.7	4213.2	3877.3	3509.0	3158.1	2804.7	2497.3	2263.4	2112.8	2009.6	1939.9
10°	4287.9	4116.2	3654.5	3148.1	2618.0	2151.4	1761.9	1465.8	1236.8	1164.7	1167.2
12.5°	4236.9	4007.9	3405.7	2747.4	2090.4	1501.9	1088.8	854.8	745.3	709.3	701.8
15°	4189.6	3904.6	3161.8	2359.2	1556.6	973.1	701.8	619.7	589.8	583.6	582.3
17.5°	4164.7	3808.8	2901.7	1915.0	1086.3	660.7	562.4	540.0	531.3	525.1	522.6
20°	4143.6	3725.5	2652.9	1499.4	742.9	541.3	503.9	482.8	467.9	461.6	457.9
22.5°	4128.6	3639.6	2395.3	1160.9	568.6	480.3	446.7	419.3	398.2	390.7	385.7
25°	4106.2	3545.0	2135.2	848.6	479.1	426.8	388.2	355.9	328.5	314.8	312.3
27.5°	4073.9	3438.0	1850.3	628.4	428.0	379.5	332.2	292.4	265.0	250.1	251.4
30°	4021.6	3326.0	1565.3	499.0	387.0	331.0	280.0	241.4	215.3	204.1	202.8
32.5°	3959.4	3190.4	1304.0	428.0	349.7	287.4	233.9	200.3	180.4	171.7	170.5
35°	3900.9	3053.5	1037.8	384.5	311.1	247.6	196.6	168.0	153.1	145.6	146.8
37.5°	3868.6	2931.6	808.8	349.7	280.0	212.8	169.2	144.3	130.7	124.4	123.2
40°	3889.7	2832.0	643.3	318.5	245.1	182.9	145.6	124.4	110.7	102.0	102.0
42.5°	3989.3	2788.5	518.9	288.7	212.8	158.0	126.9	107.0	92.1	83.4	84.6
45°	4292.9	2834.5	434.3	261.3	182.9	136.9	109.5	88.3	74.7	68.4	67.2
47.5°	4796.8	3007.5	375.8	232.7	156.8	117.0	92.1	73.4	59.7	54.7	53.5
50°	5677.8	3364.6	332.2	204.1	133.1	99.5	75.9	58.5	47.3	42.3	42.3
52.5°	6889.7	4143.6	301.1	171.7	112.0	84.6	62.2	47.3	37.3	33.6	32.4
55°	8156.5	4964.8	284.9	144.3	93.3	69.7	49.8	37.3	28.6	24.9	23.6
57.5°	9374.6	5609.3	266.3	117.0	74.7	53.5	38.6	28.6	19.9	17.4	16.2
60°	10543.0	6130.7	226.5	93.3	58.5	38.6	28.6	19.9	13.7	11.2	11.2
62.5°	11588.3	6434.3	177.9	74.7	44.8	27.4	18.7	14.9	10.0	7.5	7.5
65°	11710.2	6039.9	134.4	57.2	32.4	17.4	11.2	11.2	7.5	5.0	5.0
66°	11465.1	5705.2	118.2	52.3	28.6	14.9	10.0	8.7	6.2	3.7	3.7
67.5°	10917.6	5134.0	102.0	44.8	23.6	11.2	7.5	7.5	5.0	2.5	2.5
70°	9433.1	4193.3	80.9	33.6	17.4	8.7	5.0	5.0	3.7	2.5	2.5
72.5°	7189.6	3130.7	65.9	24.9	12.4	6.2	3.7	3.7	3.7	2.5	2.5
75°	4336.4	1686.0	51.0	18.7	11.2	5.0	2.5	3.7	5.0	3.7	2.5
77.5°	1597.7	573.6	39.8	14.9	8.7	5.0	2.5	2.5	5.0	3.7	3.7
80°	392.0	149.3	28.6	12.4	8.7	5.0	2.5	2.5	5.0	5.0	5.0
82.5°	181.7	63.5	19.9	11.2	8.7	5.0	2.5	2.5	3.7	5.0	5.0
85°	104.5	29.9	16.2	12.4	8.7	5.0	2.5	2.5	3.7	5.0	5.0
87.5°	42.3	14.9	14.9	12.4	10.0	6.2	2.5	2.5	2.5	3.7	3.7
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)