

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: P459462

Luminaire Tested: **GALN-SA9A-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28354 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

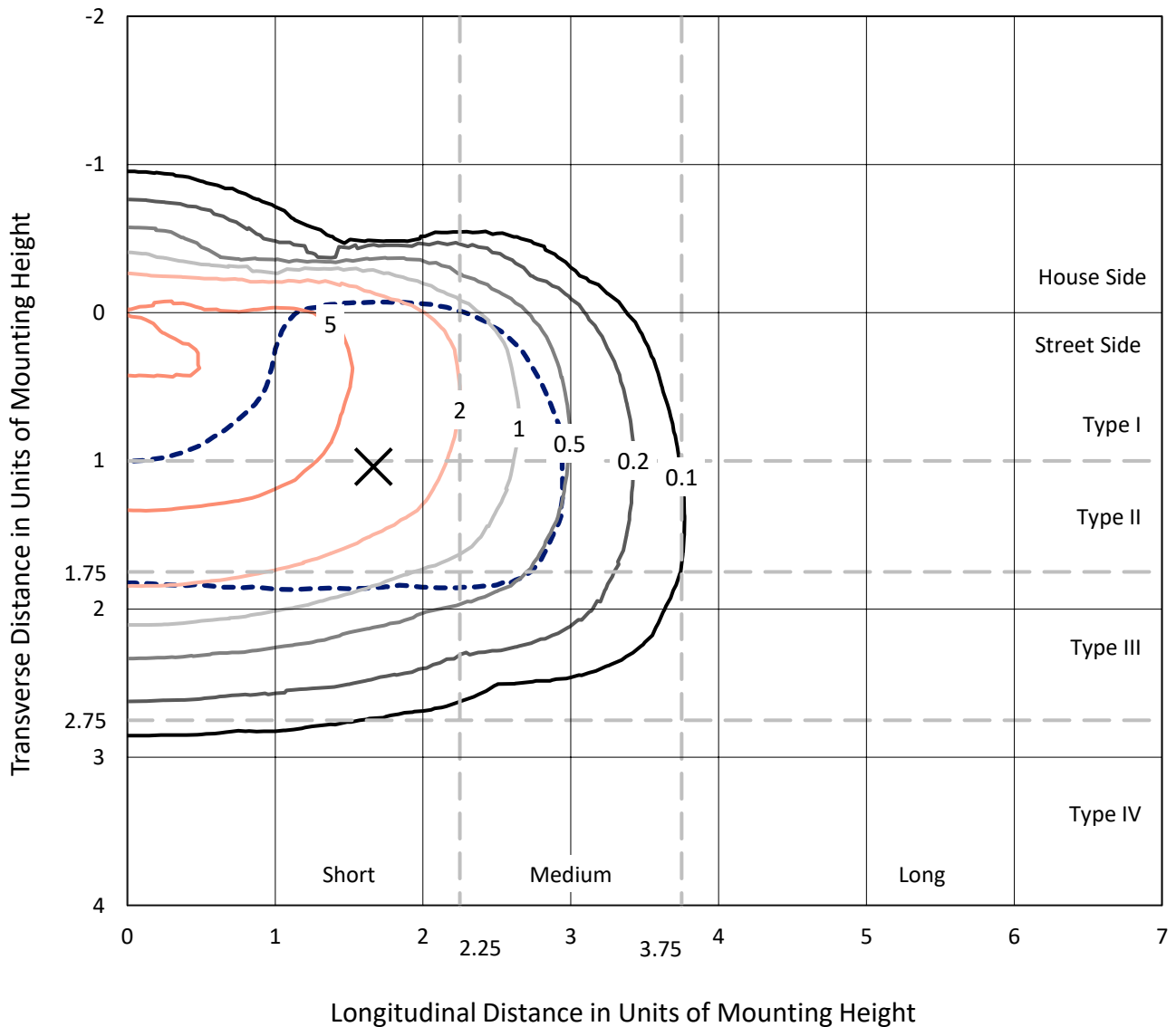
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

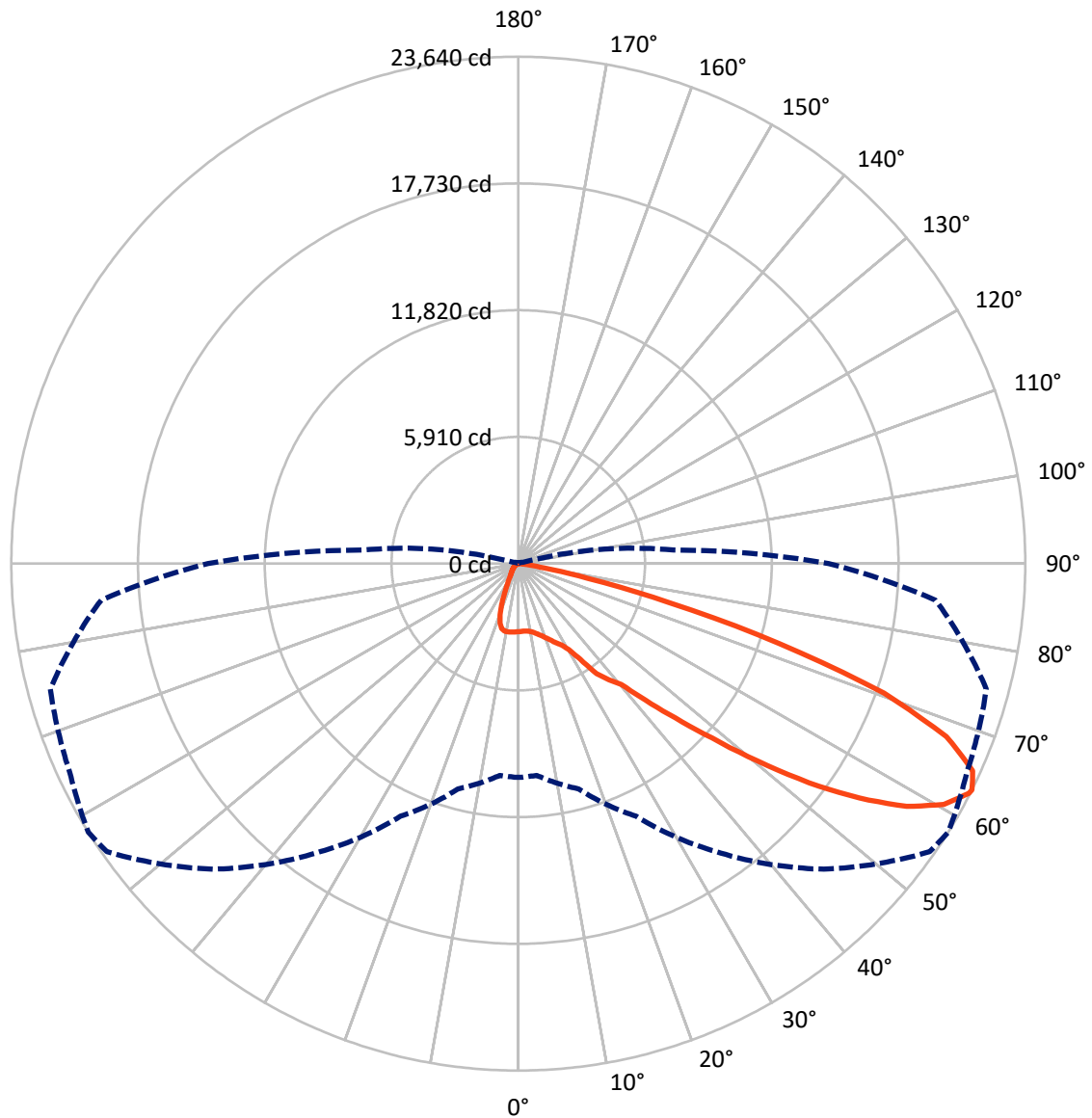
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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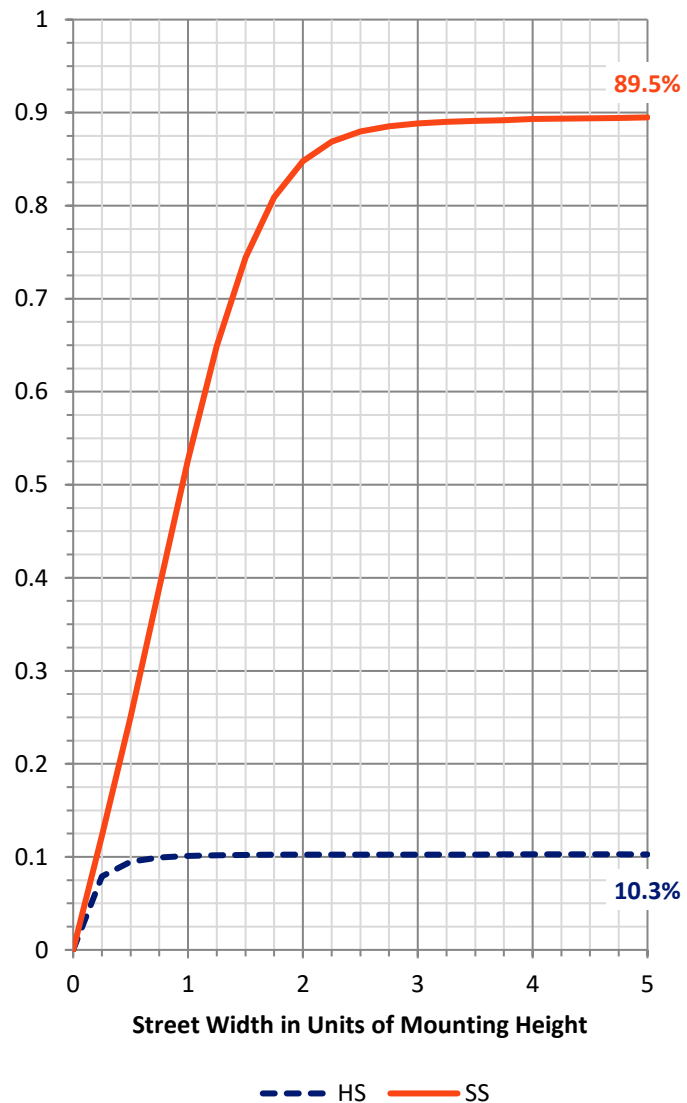
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2935.9	0.0	2935.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25418.1	0.0	25418.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	28354.0	0.0	28354.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.2	1.0
10°-20°	809.4	2.9
20°-30°	1404.7	5.0
30°-40°	2581.3	9.1
40°-50°	4859.2	17.1
50°-60°	8311.2	29.3
60°-70°	7958.0	28.1
70°-80°	2029.3	7.2
80°-90°	103.8	0.4
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°	28354.0	100.0
0°-180°	28354.0	100.0



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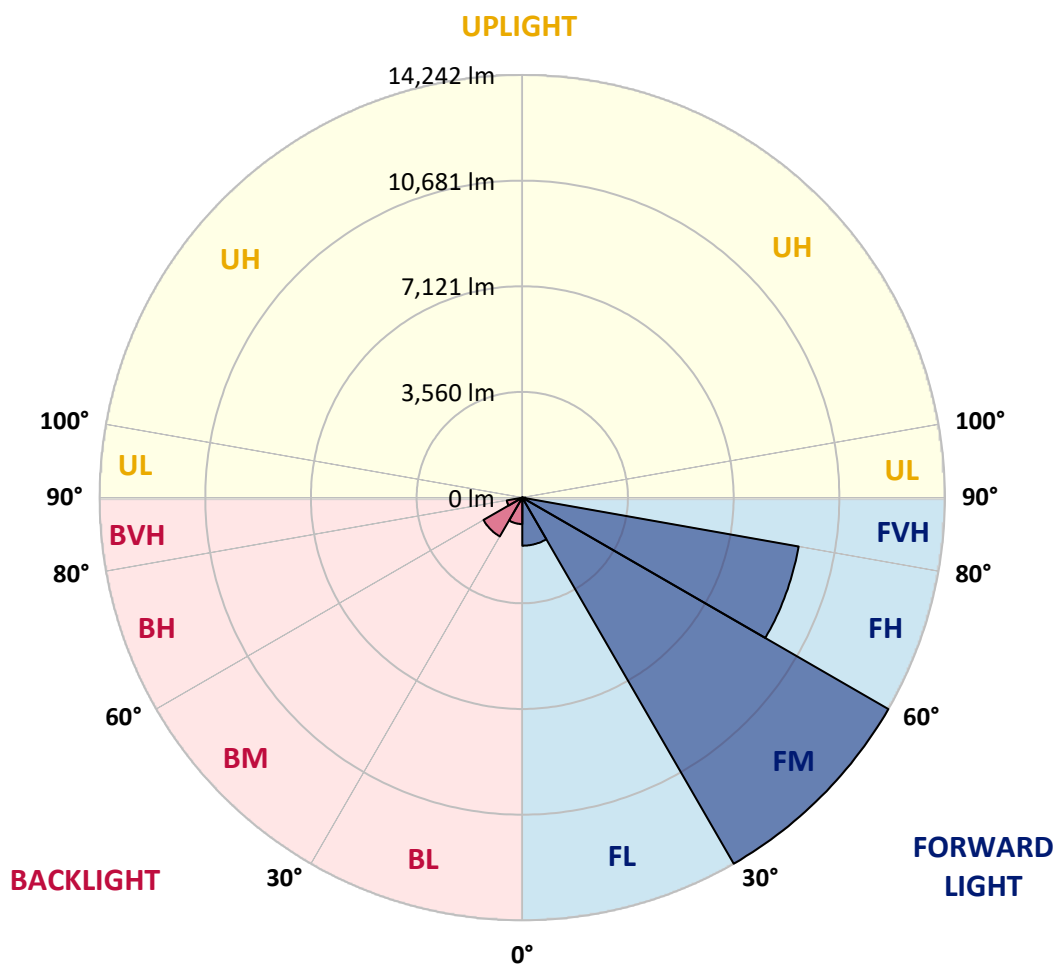
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.8	5.7			
FM	(30°-60°)	14241.6	50.2			
FH	(60°-80°)	9455.9	33.3			G4/12000
FVH	(80°-90°)	99.7	0.4			G1/100
BL	(0°-30°)	890.4	3.1	B2/1000		
BM	(30°-60°)	1510.1	5.3	B2/2500		
BH	(60°-80°)	531.4	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3
2.5°	3095.4	3106.0	3116.7	3121.0	3135.9	3150.9	3161.5	3159.4	3176.5	3185.0	3185.0
5°	2971.5	2971.5	2999.3	3024.9	3067.6	3110.3	3150.9	3159.4	3191.4	3221.3	3232.0
7.5°	2866.9	2873.3	2894.7	2941.7	2999.3	3074.0	3155.1	3174.3	3229.8	3296.0	3323.8
10°	2817.8	2822.1	2849.9	2899.0	2971.5	3074.0	3187.1	3223.4	3308.8	3413.4	3451.9
12.5°	2807.2	2813.6	2841.3	2896.8	2980.1	3103.9	3257.6	3296.0	3419.8	3554.3	3612.0
15°	2826.4	2830.6	2858.4	2918.2	3010.0	3157.3	3351.5	3404.9	3552.2	3708.0	3782.7
17.5°	2894.7	2890.4	2909.6	2958.7	3061.2	3223.4	3464.7	3528.7	3701.6	3915.1	3964.2
20°	3185.0	3157.3	3140.2	3097.5	3138.0	3317.4	3601.3	3695.2	3908.7	4126.4	4160.6
22.5°	3810.5	3748.6	3626.9	3460.4	3332.3	3445.5	3765.7	3874.5	4149.9	4363.4	4363.4
25°	4606.7	4527.8	4406.1	4043.2	3729.4	3656.8	3951.4	4088.0	4412.5	4628.1	4557.6
27.5°	5603.7	5541.8	5304.8	4882.1	4401.8	4026.1	4167.0	4292.9	4645.2	4905.6	4758.3
30°	6414.9	6385.0	6190.7	5812.9	5283.5	4734.8	4568.3	4651.6	4954.7	5255.7	5104.1
32.5°	7100.1	7100.1	6901.6	6549.3	6054.1	5567.4	5249.3	5309.1	5599.4	5947.4	5665.6
35°	7853.7	7828.0	7667.9	7332.8	6777.8	6348.7	6218.5	6299.6	6562.2	6820.5	6126.7
37.5°	8645.6	8637.1	8470.6	8146.1	7693.6	7153.5	6848.2	6869.6	7004.0	7162.0	6666.8
40°	9505.9	9518.8	9301.0	9100.3	8673.4	8120.5	7535.6	7401.1	7527.0	7973.2	7663.7
42.5°	10522.1	10492.2	10398.3	10125.0	9781.3	9450.4	8748.1	8699.0	8810.0	9288.2	8953.0
45°	11702.6	11745.3	11583.0	11431.5	11200.9	10925.5	10338.5	10253.1	10374.8	11117.7	10641.6
47.5°	12885.2	12844.7	12949.3	12921.5	13045.3	12840.4	12321.6	12146.6	12439.1	13143.5	12443.3
50°	13786.1	13830.9	14048.6	14366.7	14898.3	15013.5	14516.1	14456.4	14586.6	15039.2	14055.0
52.5°	14371.0	14520.4	14862.0	15679.6	16638.1	17383.1	17005.2	16973.2	16919.9	17041.5	15596.3
55°	14753.1	14904.7	15350.8	16554.8	18205.0	19415.3	19434.6	19297.9	18945.7	18858.2	17037.3
57.5°	14518.3	14548.2	15184.3	16793.9	19073.8	20864.8	21492.4	21355.8	20704.7	20373.8	18309.6
60°	13049.6	13111.5	13997.4	15888.8	18695.9	21338.7	22856.5	22794.6	22081.6	21708.0	19300.1
62.5°	10447.4	10626.7	11538.2	13647.3	16939.1	20540.3	23409.4	23584.5	23029.4	22515.0	19611.7
63°	9969.2	9911.5	10874.3	12994.1	16473.7	20145.4	23418.0	23640.0	23072.1	22591.8	19526.4
65°	7379.8	7552.7	8178.1	10246.7	13709.2	18307.4	22890.7	23283.5	22914.2	22252.4	18580.7
67.5°	4143.5	4135.0	4826.6	6705.2	9595.6	14360.3	20698.3	21528.7	21451.9	19968.2	15402.1
70°	2028.0	2060.0	2343.9	3475.3	5565.2	9907.3	17199.5	18096.1	18123.8	15683.8	10650.2
72.5°	917.9	932.9	1135.7	1692.8	2860.5	5274.9	11852.0	12708.0	12550.1	9994.8	5881.2
75°	484.6	516.6	625.5	851.8	1379.0	2175.3	6446.9	7275.2	6944.3	4566.2	2164.6
77.5°	358.6	369.3	424.8	542.2	738.6	847.5	2781.6	3308.8	3099.6	1652.3	717.3
80°	262.6	271.1	315.9	384.3	465.4	431.2	1048.2	1201.9	1078.0	561.4	219.9
82.5°	160.1	162.2	230.6	286.1	292.5	241.2	345.8	371.4	388.5	315.9	119.5
85°	57.6	72.6	155.8	207.1	172.9	121.7	145.2	160.1	175.0	200.7	70.4
87.5°	6.4	8.5	74.7	100.3	49.1	44.8	53.4	59.8	64.0	74.7	34.2
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°	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3	3174.3
2.5°	3193.6	3202.1	3195.7	3185.0	3182.9	3176.5	3163.7	3163.7	3163.7	3167.9	3163.7
5°	3240.5	3246.9	3232.0	3210.6	3187.1	3157.3	3125.2	3106.0	3103.9	3099.6	3089.0
7.5°	3330.2	3338.7	3304.6	3253.3	3189.3	3116.7	3048.4	2984.3	2954.5	2931.0	2931.0
10°	3460.4	3468.9	3400.6	3308.8	3180.7	3033.4	2871.2	2723.9	2608.6	2555.3	2542.5
12.5°	3616.2	3620.5	3507.4	3347.3	3135.9	2852.0	2506.2	2183.8	1959.7	1857.2	1846.5
15°	3787.0	3757.1	3607.7	3362.2	3007.8	2478.4	1880.7	1485.8	1253.1	1184.8	1210.4
17.5°	3959.9	3904.4	3684.5	3338.7	2719.6	1880.7	1263.8	1014.0	941.4	922.2	922.2
20°	4122.2	4045.3	3740.0	3236.2	2220.1	1295.8	937.1	877.4	864.6	851.8	853.9
22.5°	4284.4	4167.0	3789.1	3007.8	1654.4	926.5	838.9	819.7	802.7	785.6	783.4
25°	4442.4	4280.1	3808.4	2585.2	1127.1	796.3	766.4	740.8	706.6	687.4	683.1
27.5°	4606.7	4416.8	3795.5	2051.5	821.9	713.0	683.1	646.8	606.3	572.1	572.1
30°	4922.7	4677.2	3750.7	1475.1	691.7	627.6	589.2	531.5	486.7	452.6	450.4
32.5°	5353.9	5016.6	3597.0	1037.5	614.8	552.9	495.3	431.2	384.3	358.6	358.6
35°	5738.1	5358.2	3308.8	764.2	552.9	480.3	409.9	348.0	311.7	294.6	288.2
37.5°	6323.1	5857.7	2911.8	621.2	493.1	416.3	343.7	286.1	256.2	243.4	243.4
40°	7200.4	6468.2	2425.1	544.4	435.5	354.4	286.1	241.2	217.7	202.8	202.8
42.5°	8289.1	7215.4	1931.9	488.9	382.1	305.3	239.1	204.9	183.6	172.9	170.8
45°	9659.6	8003.1	1487.9	437.6	339.4	260.4	202.8	172.9	151.6	145.2	147.3
47.5°	11089.9	8696.9	1152.8	392.8	294.6	219.9	172.9	149.4	134.5	125.9	125.9
50°	12311.0	9175.1	875.2	341.6	260.4	185.7	151.6	134.5	121.7	117.4	115.3
52.5°	13331.4	9313.8	670.3	296.7	228.4	160.1	134.5	121.7	111.0	104.6	104.6
55°	14200.2	9192.1	525.1	249.8	192.1	138.8	119.5	108.9	96.1	89.7	87.5
57.5°	14708.3	8801.5	401.3	207.1	155.8	115.3	104.6	91.8	76.9	66.2	66.2
60°	14964.4	8233.6	307.4	170.8	119.5	91.8	85.4	68.3	53.4	44.8	42.7
62.5°	14657.0	7480.1	232.7	134.5	89.7	68.3	57.6	49.1	34.2	25.6	25.6
63°	14467.0	7262.3	224.1	128.1	83.3	64.0	53.4	44.8	29.9	23.5	21.3
65°	13188.3	6312.4	183.6	102.5	66.2	44.8	36.3	32.0	21.3	10.7	8.5
67.5°	10473.0	4828.8	145.2	76.9	47.0	32.0	21.3	19.2	6.4	0.0	0.0
70°	7080.9	3118.8	113.1	55.5	32.0	19.2	10.7	8.5	2.1	0.0	0.0
72.5°	3693.1	1598.9	87.5	40.6	19.2	12.8	6.4	2.1	0.0	0.0	0.0
75°	1306.5	544.4	64.0	25.6	12.8	6.4	2.1	0.0	0.0	0.0	0.0
77.5°	394.9	202.8	40.6	19.2	8.5	4.3	0.0	0.0	0.0	0.0	0.0
80°	138.8	74.7	23.5	12.8	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	68.3	36.3	14.9	10.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.4	23.5	12.8	10.7	6.4	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	27.8	17.1	12.8	10.7	8.5	4.3	2.1	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)