

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: P457664

Luminaire Tested: **GALN-SA9A-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457664
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-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 27720 lumens
Efficiency: N/A
Efficacy: 101.2 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

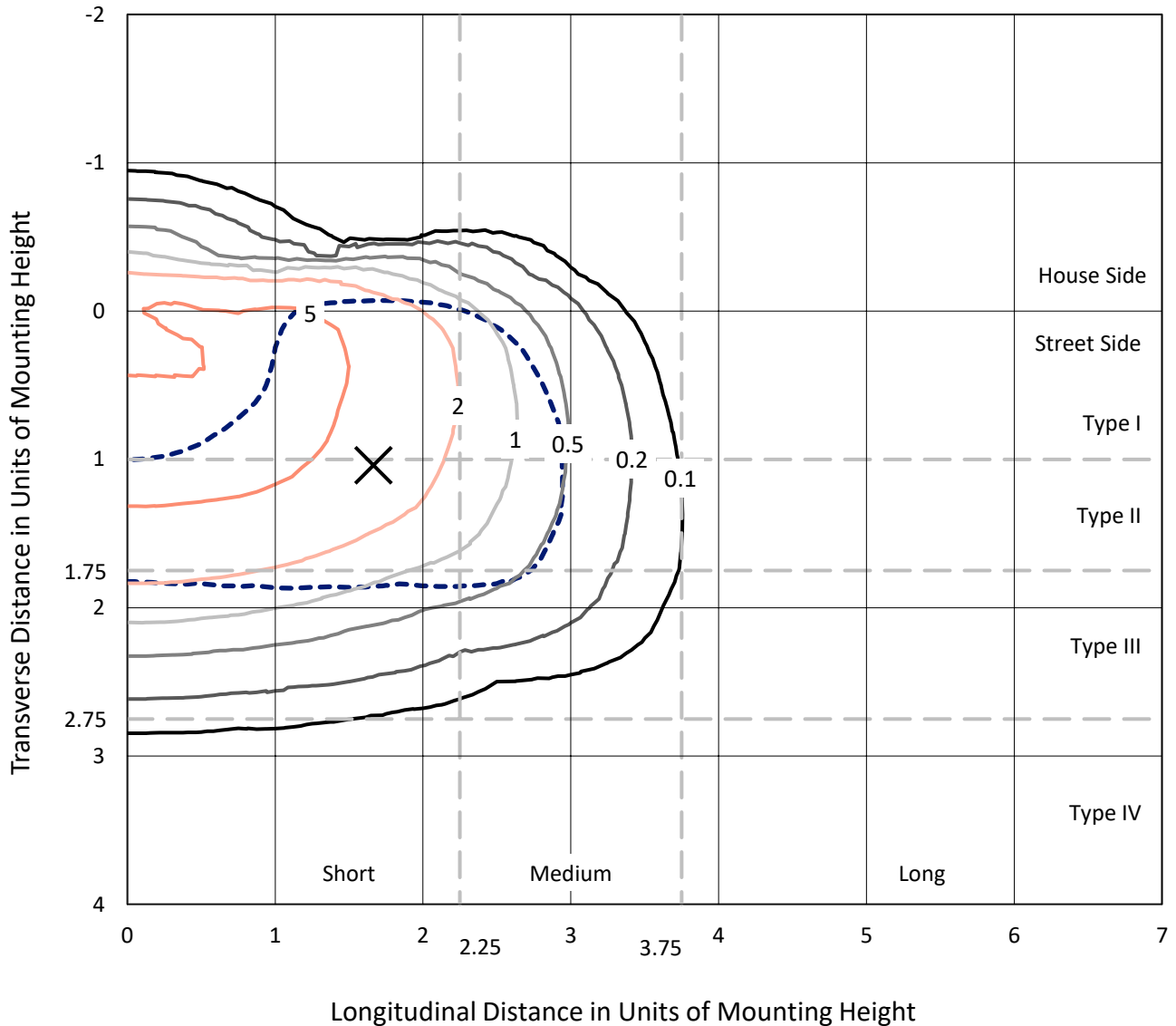
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

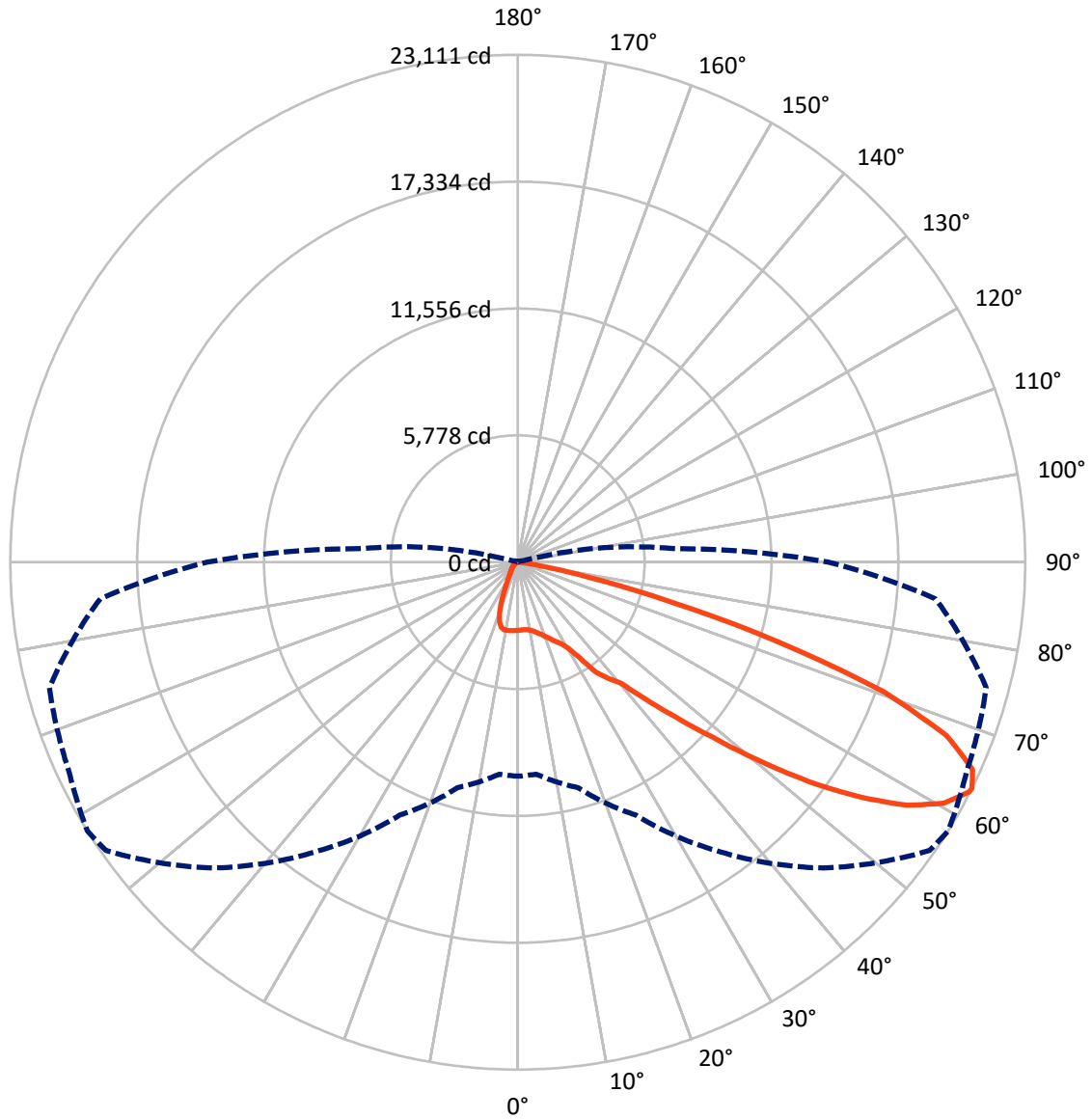
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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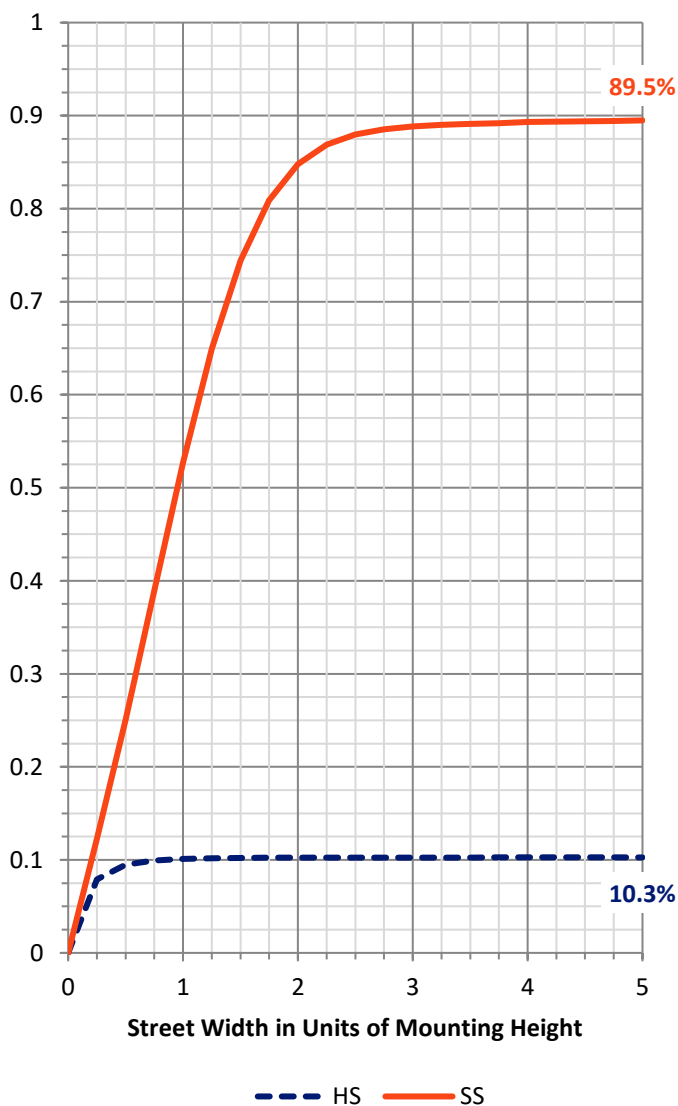
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2870.2	0.0	2870.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24849.8	0.0	24849.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	27720.0	0.0	27720.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	1.0
10°-20°	791.3	2.9
20°-30°	1373.3	5.0
30°-40°	2523.5	9.1
40°-50°	4750.5	17.1
50°-60°	8125.4	29.3
60°-70°	7780.1	28.1
70°-80°	1983.9	7.2
80°-90°	101.4	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°	27720.0	100.0
0°-180°	27720.0	100.0

Coefficient of Utilization



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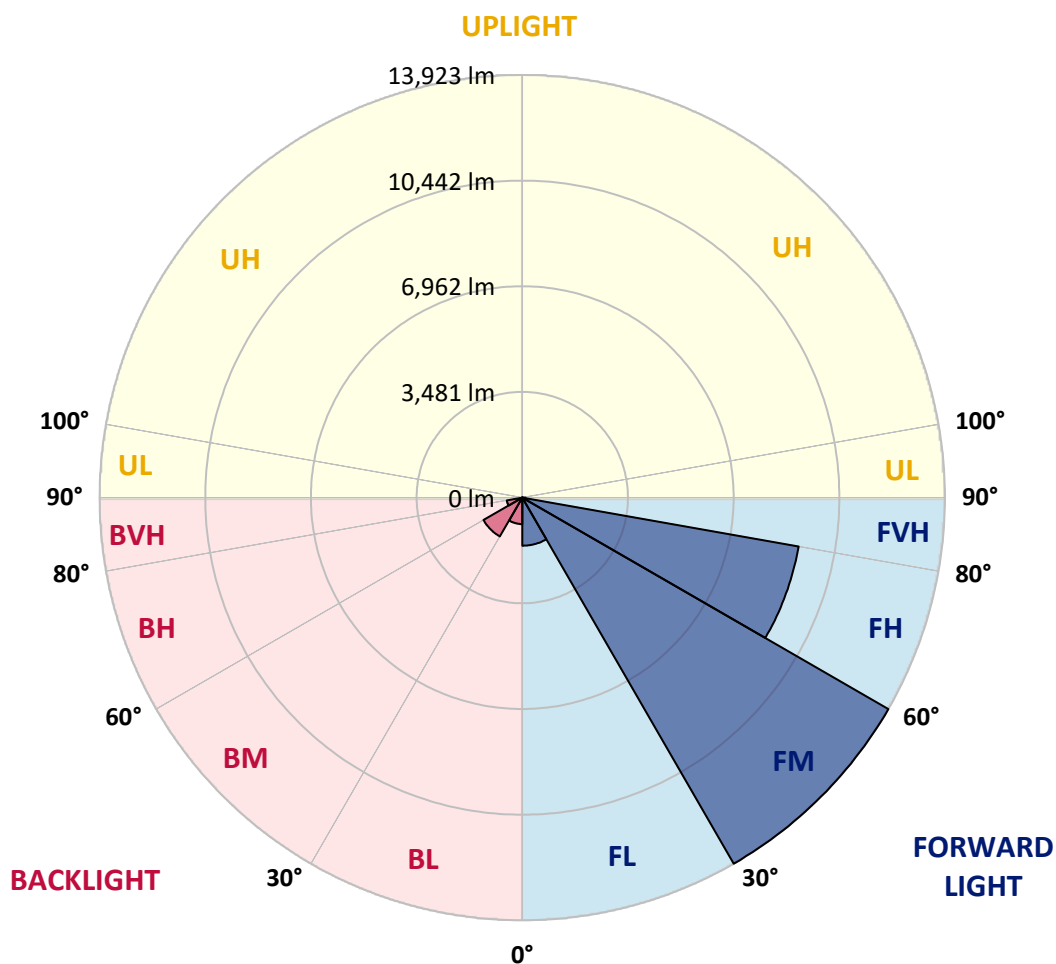
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1584.6	5.7			
FM	(30°-60°)	13923.2	50.2			
FH	(60°-80°)	9244.5	33.3			G4/12000
FVH	(80°-90°)	97.5	0.4			G1/100
BL	(0°-30°)	870.5	3.1	B2/1000		
BM	(30°-60°)	1476.3	5.3	B2/2500		
BH	(60°-80°)	519.6	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4
2.5°	3026.1	3036.6	3047.0	3051.2	3065.8	3080.4	3090.8	3088.8	3105.4	3113.8	3113.8
5°	2905.1	2905.1	2932.2	2957.3	2999.0	3040.8	3080.4	3088.8	3120.1	3149.3	3159.7
7.5°	2802.8	2809.1	2830.0	2875.9	2932.2	3005.3	3084.6	3103.4	3157.6	3222.3	3249.5
10°	2754.8	2759.0	2786.1	2834.1	2905.1	3005.3	3115.9	3151.4	3234.8	3337.1	3374.7
12.5°	2744.4	2750.7	2777.8	2832.1	2913.4	3034.5	3184.8	3222.3	3343.4	3474.8	3531.2
15°	2763.2	2767.4	2794.5	2852.9	2942.7	3086.7	3276.6	3328.8	3472.8	3625.1	3698.2
17.5°	2830.0	2825.8	2844.6	2892.6	2992.8	3151.4	3387.2	3449.8	3618.8	3827.5	3875.5
20°	3113.8	3086.7	3070.0	3028.2	3067.9	3243.2	3520.8	3612.6	3821.3	4034.2	4067.6
22.5°	3725.3	3664.8	3545.8	3383.0	3257.8	3368.4	3681.5	3787.9	4057.1	4265.8	4265.8
25°	4503.7	4426.5	4307.6	3952.8	3646.0	3575.0	3863.0	3996.6	4313.8	4524.6	4455.7
27.5°	5478.4	5417.8	5186.2	4773.0	4303.4	3936.1	4073.8	4196.9	4541.3	4795.9	4651.9
30°	6271.4	6242.2	6052.3	5682.9	5165.3	4629.0	4466.2	4547.6	4843.9	5138.2	4990.0
32.5°	6941.3	6941.3	6747.3	6402.9	5918.7	5442.9	5131.9	5190.4	5474.2	5814.4	5538.9
35°	7678.1	7653.0	7496.5	7168.8	6626.2	6206.7	6079.4	6158.7	6415.4	6667.9	5989.7
37.5°	8452.3	8444.0	8281.2	7964.0	7521.5	6993.5	6695.1	6715.9	6847.4	7001.9	6517.7
40°	9293.4	9305.9	9093.0	8896.9	8479.5	7938.9	7367.1	7235.6	7358.7	7794.9	7492.3
42.5°	10286.8	10257.6	10165.8	9898.6	9562.6	9239.1	8552.5	8504.5	8613.0	9080.5	8752.9
45°	11440.9	11482.6	11324.0	11175.9	10950.5	10681.2	10107.3	10023.8	10142.8	10869.1	10403.7
47.5°	12597.1	12557.4	12659.7	12632.6	12753.6	12553.3	12046.1	11875.0	12160.9	12849.6	12165.1
50°	13477.8	13521.6	13734.5	14045.5	14565.1	14677.8	14191.6	14133.1	14260.4	14702.9	13740.8
52.5°	14049.6	14195.7	14529.7	15329.0	16266.0	16994.4	16625.0	16593.7	16541.5	16660.5	15247.6
55°	14423.2	14571.4	15007.6	16184.6	17797.9	18981.2	19000.0	18866.4	18522.1	18436.5	16656.3
57.5°	14193.7	14222.9	14844.8	16418.4	18647.3	20398.3	21011.9	20878.3	20241.8	19918.3	17900.2
60°	12757.8	12818.3	13684.4	15533.5	18277.9	20861.6	22345.5	22284.9	21587.9	21222.6	18868.5
62.5°	10213.8	10389.1	11280.2	13342.2	16560.3	20081.1	22886.0	23057.1	22514.5	22011.5	19173.2
63°	9746.3	9689.9	10631.2	12703.5	16105.3	19695.0	22894.3	23111.4	22556.2	22086.7	19089.7
65°	7214.7	7383.8	7995.3	10017.6	13402.7	17898.1	22378.8	22762.9	22401.8	21754.8	18165.2
67.5°	4050.9	4042.5	4718.7	6555.3	9381.0	14039.2	20235.5	21047.3	20972.2	19521.7	15057.7
70°	1982.6	2013.9	2291.5	3397.6	5440.8	9685.7	16814.9	17691.5	17718.6	15333.2	10412.0
72.5°	897.4	912.0	1110.3	1655.0	2796.6	5157.0	11587.0	12423.9	12269.4	9771.3	5749.7
75°	473.7	505.1	611.5	832.7	1348.2	2126.6	6302.7	7112.5	6789.0	4464.1	2116.2
77.5°	350.6	361.1	415.3	530.1	722.1	828.5	2719.4	3234.8	3030.3	1615.3	701.2
80°	256.7	265.0	308.9	375.7	455.0	421.6	1024.7	1175.0	1053.9	548.9	215.0
82.5°	156.5	158.6	225.4	279.7	285.9	235.8	338.1	363.1	379.8	308.9	116.9
85°	56.3	71.0	152.4	202.4	169.0	119.0	141.9	156.5	171.1	196.2	68.9
87.5°	6.3	8.3	73.0	98.1	48.0	43.8	52.2	58.4	62.6	73.0	33.4
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°	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4	3103.4
2.5°	3122.1	3130.5	3124.2	3113.8	3111.7	3105.4	3092.9	3092.9	3092.9	3097.1	3092.9
5°	3168.1	3174.3	3159.7	3138.8	3115.9	3086.7	3055.4	3036.6	3034.5	3030.3	3019.9
7.5°	3255.7	3264.1	3230.7	3180.6	3118.0	3047.0	2980.2	2917.6	2888.4	2865.4	2865.4
10°	3383.0	3391.4	3324.6	3234.8	3109.6	2965.6	2807.0	2663.0	2550.3	2498.1	2485.6
12.5°	3535.4	3539.5	3428.9	3272.4	3065.8	2788.2	2450.1	2135.0	1915.9	1815.7	1805.3
15°	3702.3	3673.1	3527.0	3287.0	2940.6	2423.0	1838.6	1452.5	1225.1	1158.3	1183.3
17.5°	3871.4	3817.1	3602.2	3264.1	2658.8	1838.6	1235.5	991.3	920.4	901.6	901.6
20°	4030.0	3954.9	3656.4	3163.9	2170.5	1266.8	916.2	857.8	845.2	832.7	834.8
22.5°	4188.6	4073.8	3704.4	2940.6	1617.4	905.8	820.2	801.4	784.7	768.0	765.9
25°	4343.0	4184.4	3723.2	2527.4	1101.9	778.4	749.2	724.2	690.8	672.0	667.8
27.5°	4503.7	4318.0	3710.7	2005.6	803.5	697.1	667.8	632.4	592.7	559.3	559.3
30°	4812.6	4572.6	3666.8	1442.1	676.2	613.6	576.0	519.7	475.8	442.4	440.4
32.5°	5234.2	4904.4	3516.6	1014.3	601.1	540.5	484.2	421.6	375.7	350.6	350.6
35°	5609.8	5238.4	3234.8	747.1	540.5	469.6	400.7	340.2	304.7	288.0	281.7
37.5°	6181.7	5726.7	2846.7	607.3	482.1	407.0	336.0	279.7	250.4	237.9	237.9
40°	7039.4	6323.6	2370.8	532.2	425.7	346.4	279.7	235.8	212.9	198.3	198.3
42.5°	8103.8	7054.0	1888.7	477.9	373.6	298.4	233.7	200.4	179.5	169.0	167.0
45°	9443.7	7824.1	1454.6	427.8	331.8	254.6	198.3	169.0	148.2	141.9	144.0
47.5°	10841.9	8502.4	1127.0	384.0	288.0	215.0	169.0	146.1	131.5	123.1	123.1
50°	12035.7	8969.9	855.7	333.9	254.6	181.6	148.2	131.5	119.0	114.8	112.7
52.5°	13033.3	9105.6	655.3	290.1	223.3	156.5	131.5	119.0	108.5	102.3	102.3
55°	13882.7	8986.6	513.4	244.2	187.8	135.7	116.9	106.4	93.9	87.7	85.6
57.5°	14379.4	8604.7	392.4	202.4	152.4	112.7	102.3	89.7	75.1	64.7	64.7
60°	14629.8	8049.5	300.5	167.0	116.9	89.7	83.5	66.8	52.2	43.8	41.7
62.5°	14329.3	7312.8	227.5	131.5	87.7	66.8	56.3	48.0	33.4	25.0	25.0
63°	14143.6	7100.0	219.1	125.2	81.4	62.6	52.2	43.8	29.2	23.0	20.9
65°	12893.5	6171.2	179.5	100.2	64.7	43.8	35.5	31.3	20.9	10.4	8.3
67.5°	10238.8	4720.8	141.9	75.1	45.9	31.3	20.9	18.8	6.3	0.0	0.0
70°	6922.6	3049.1	110.6	54.3	31.3	18.8	10.4	8.3	2.1	0.0	0.0
72.5°	3610.5	1563.2	85.6	39.7	18.8	12.5	6.3	2.1	0.0	0.0	0.0
75°	1277.2	532.2	62.6	25.0	12.5	6.3	2.1	0.0	0.0	0.0	0.0
77.5°	386.1	198.3	39.7	18.8	8.3	4.2	0.0	0.0	0.0	0.0	0.0
80°	135.7	73.0	23.0	12.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	66.8	35.5	14.6	10.4	6.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	37.6	23.0	12.5	10.4	6.3	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	27.1	16.7	12.5	10.4	8.3	4.2	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)