

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: P457751

Luminaire Tested: **GALN-SA9A-760-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457751
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-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 30438 lumens
Efficiency: N/A
Efficacy: 111.1 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

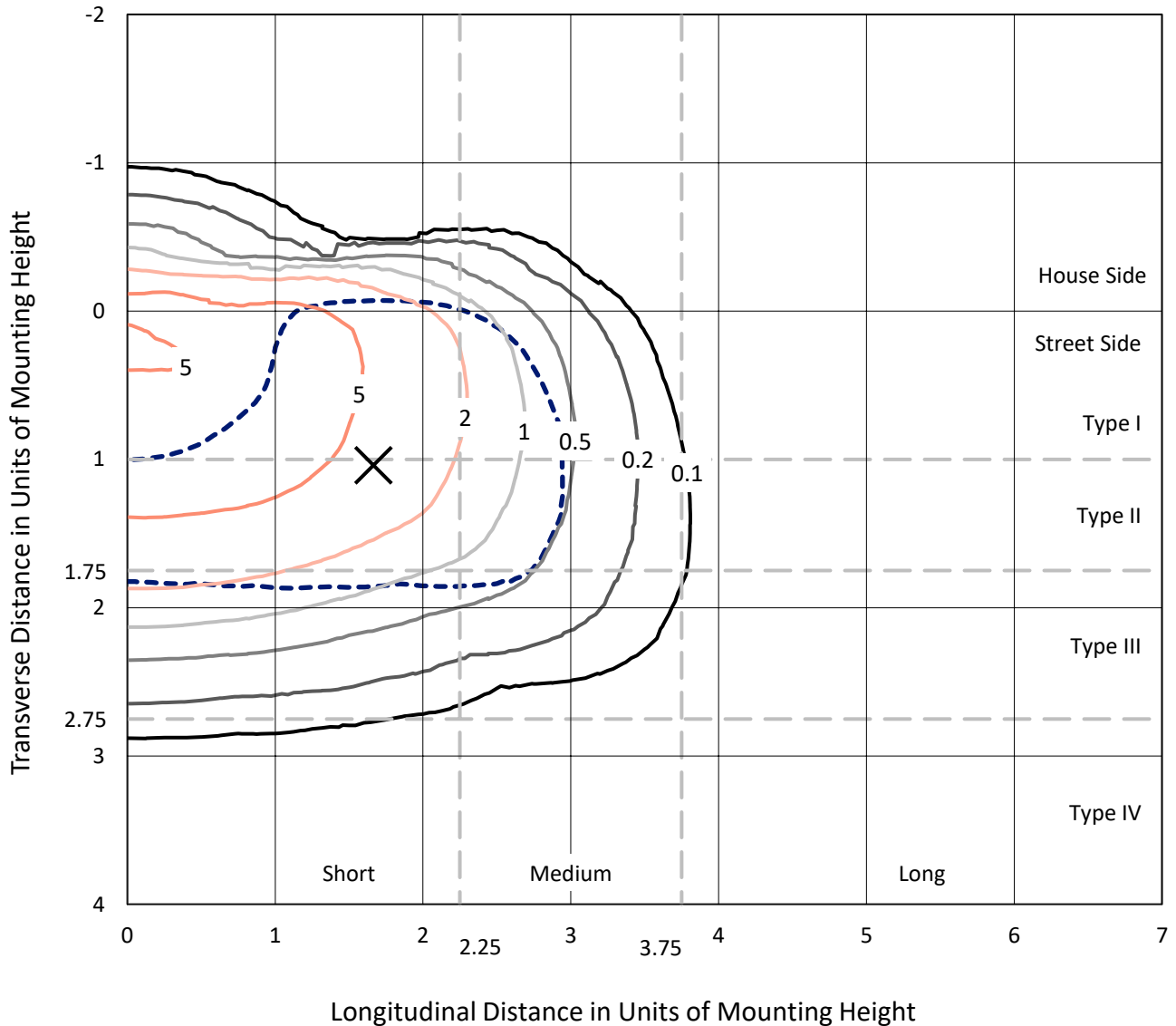
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

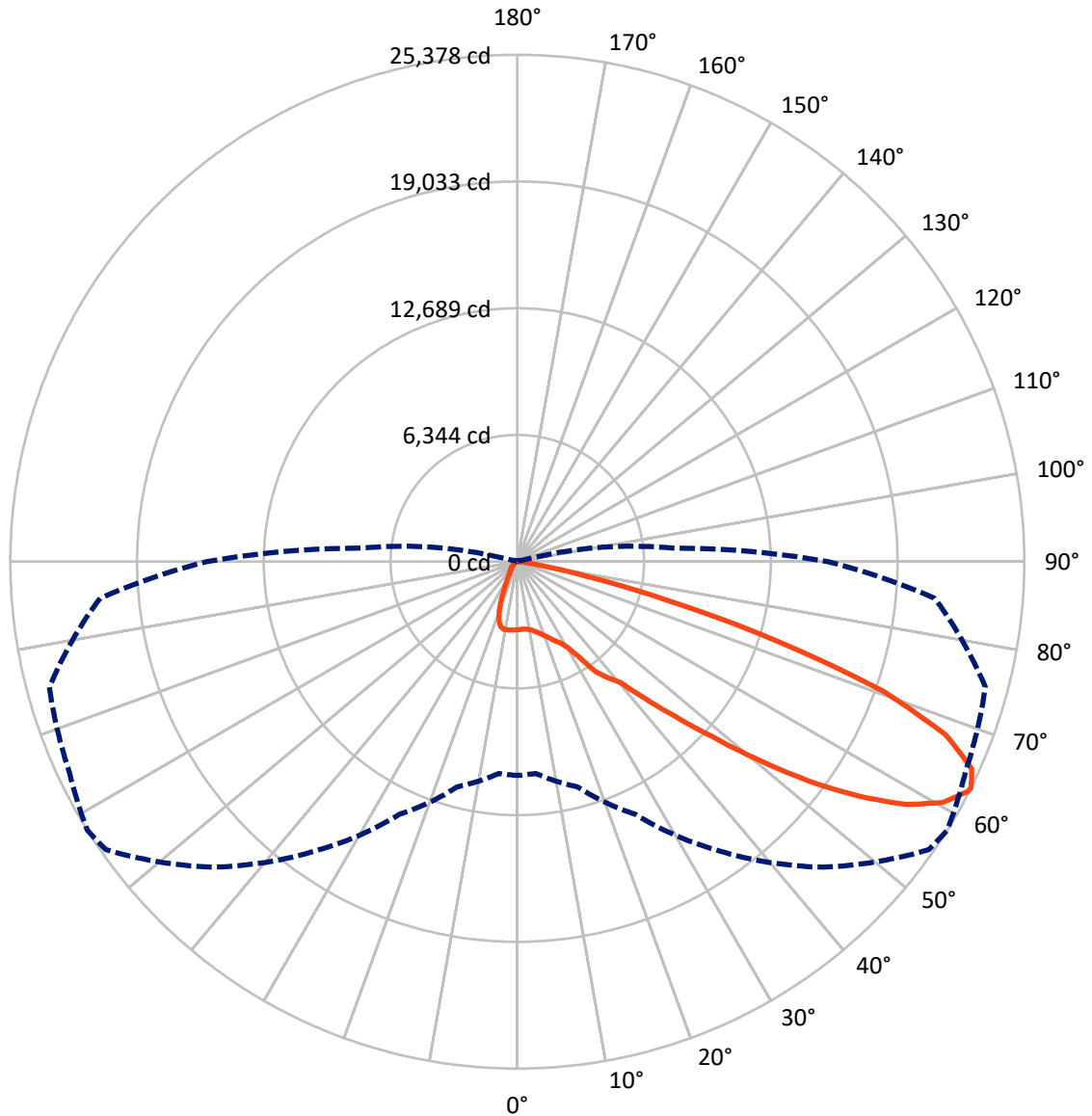
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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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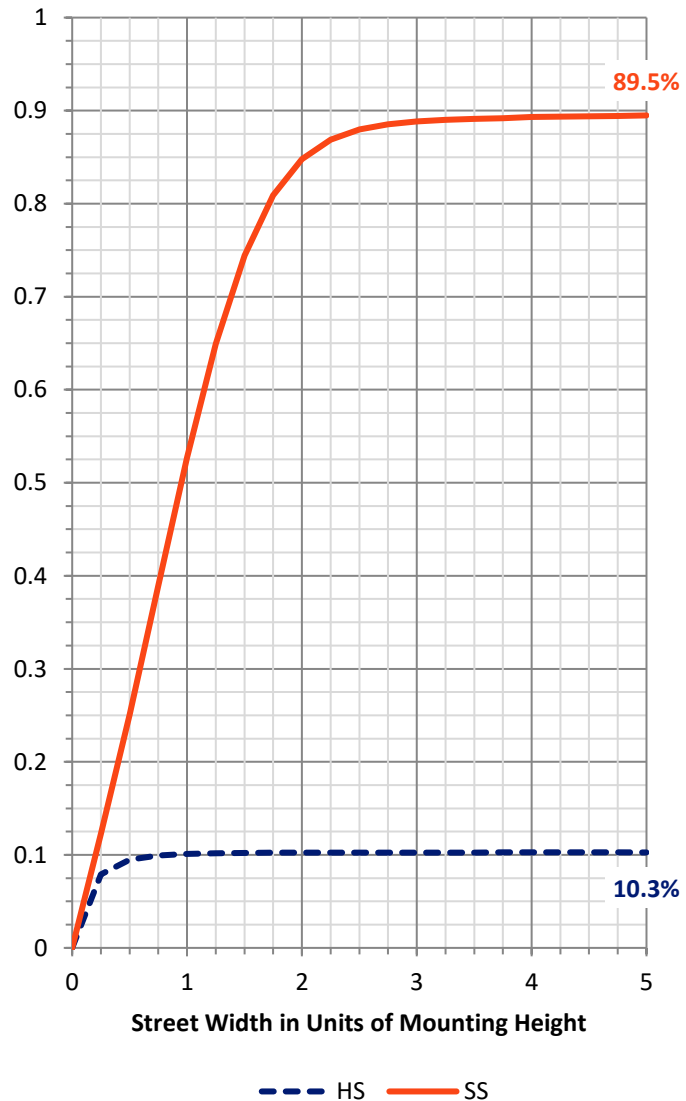
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3151.7	0.0	3151.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	27286.3	0.0	27286.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	30438.0	0.0	30438.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	1.0
10°-20°	868.9	2.9
20°-30°	1507.9	5.0
30°-40°	2771.0	9.1
40°-50°	5216.3	17.1
50°-60°	8922.1	29.3
60°-70°	8542.9	28.1
70°-80°	2178.5	7.2
80°-90°	111.4	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°	30438.0	100.0
0°-180°	30438.0	100.0

Coefficient of Utilization



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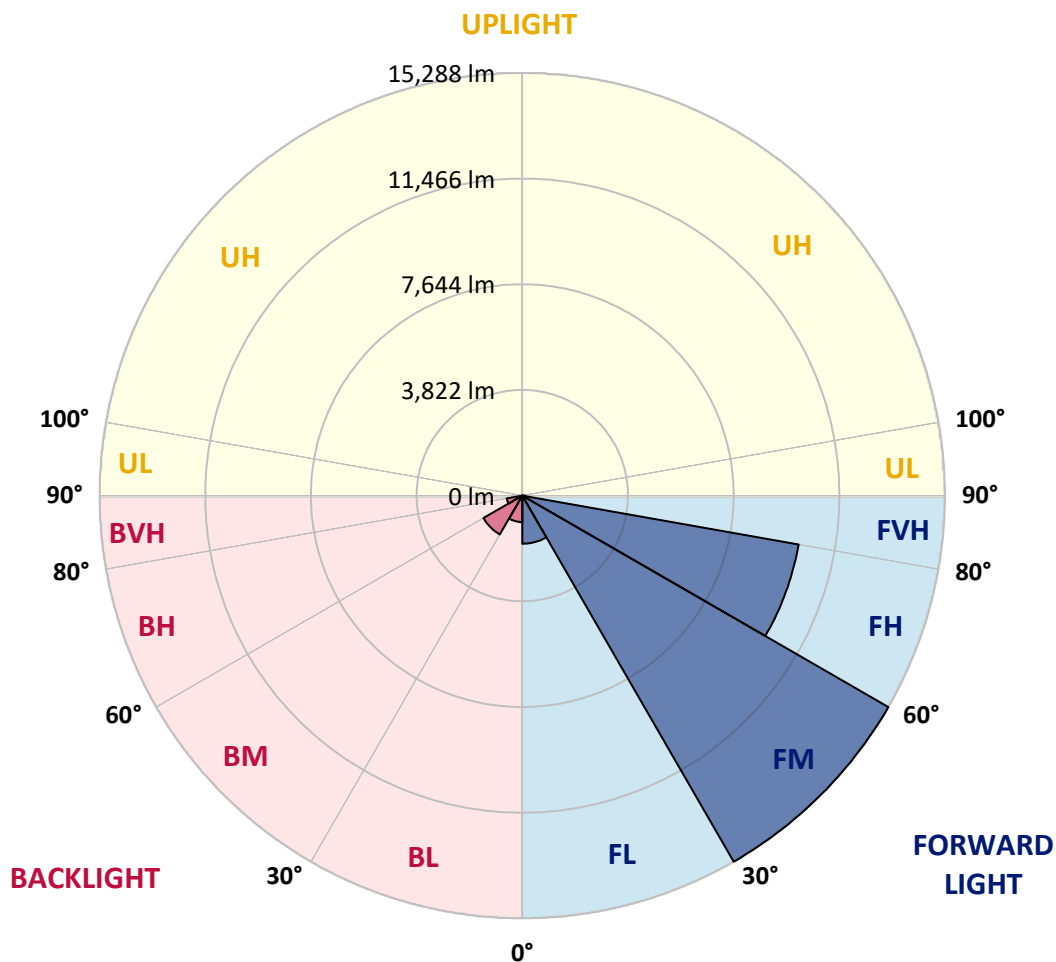
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.0	5.7			
FM (30°-60°)	15288.4	50.2			
FH (60°-80°)	10150.9	33.3			G4/12000
FVH (80°-90°)	107.1	0.4			G2/225
BL (0°-30°)	955.8	3.1	B2/1000		
BM (30°-60°)	1621.0	5.3	B2/2500		
BH (60°-80°)	570.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.3	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°	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7
2.5°	3322.9	3334.3	3345.8	3350.4	3366.4	3382.4	3393.9	3391.6	3409.9	3419.1	3419.1
5°	3189.9	3189.9	3219.7	3247.2	3293.1	3338.9	3382.4	3391.6	3426.0	3458.1	3469.5
7.5°	3077.7	3084.5	3107.4	3157.9	3219.7	3299.9	3387.0	3407.7	3467.2	3538.3	3568.1
10°	3024.9	3029.5	3059.3	3112.0	3189.9	3299.9	3421.4	3460.4	3552.0	3664.3	3705.6
12.5°	3013.5	3020.4	3050.2	3109.7	3199.1	3332.0	3497.0	3538.3	3671.2	3815.6	3877.4
15°	3034.1	3038.7	3068.5	3132.7	3231.2	3389.3	3597.9	3655.1	3813.3	3980.6	4060.8
17.5°	3107.4	3102.9	3123.5	3176.2	3286.2	3460.4	3719.3	3788.1	3973.7	4202.8	4255.6
20°	3419.1	3389.3	3371.0	3325.2	3368.7	3561.2	3866.0	3966.8	4196.0	4429.7	4466.4
22.5°	4090.6	4024.1	3893.5	3714.7	3577.2	3698.7	4042.4	4159.3	4454.9	4684.1	4684.1
25°	4945.3	4860.5	4729.9	4340.3	4003.5	3925.6	4241.8	4388.5	4736.8	4968.3	4892.6
27.5°	6015.5	5949.1	5694.7	5241.0	4725.3	4322.0	4473.3	4608.5	4986.6	5266.2	5108.0
30°	6886.3	6854.3	6645.7	6240.1	5671.8	5082.8	4904.1	4993.5	5318.9	5642.0	5479.3
32.5°	7622.0	7622.0	7408.8	7030.7	6499.1	5976.6	5635.1	5699.3	6010.9	6384.5	6082.0
35°	8430.9	8403.4	8231.5	7871.7	7275.9	6815.3	6675.5	6762.6	7044.5	7321.8	6577.0
37.5°	9281.1	9271.9	9093.2	8744.9	8259.0	7679.2	7351.5	7374.5	7518.8	7688.4	7156.8
40°	10204.6	10218.4	9984.6	9769.2	9310.9	8717.4	8089.4	7945.1	8080.3	8559.2	8226.9
42.5°	11295.4	11263.4	11162.5	10869.2	10500.2	10145.0	9391.1	9338.4	9457.6	9970.9	9611.1
45°	12562.7	12608.5	12434.4	12271.7	12024.2	11728.6	11098.4	11006.7	11137.3	11934.8	11423.8
47.5°	13832.3	13788.7	13901.0	13871.2	14004.1	13784.1	13227.3	13039.4	13353.3	14109.6	13357.9
50°	14799.3	14847.5	15081.2	15422.7	15993.3	16117.0	15583.1	15518.9	15658.7	16144.5	15088.1
52.5°	15427.2	15587.7	15954.3	16832.0	17861.0	18660.7	18255.1	18220.7	18163.4	18294.1	16742.6
55°	15837.4	16000.2	16479.1	17771.6	19543.0	20842.4	20863.0	20716.3	20338.2	20244.2	18289.5
57.5°	15585.4	15617.4	16300.4	18028.2	20475.7	22398.4	23072.1	22925.5	22226.5	21871.3	19655.3
60°	14008.7	14075.2	15026.2	17056.6	20070.1	22907.1	24536.5	24470.0	23704.6	23303.6	20718.6
62.5°	11215.2	11407.7	12386.3	14650.4	18184.1	22050.1	25130.0	25317.9	24722.1	24169.8	21053.2
63°	10701.9	10640.0	11673.6	13949.1	17684.5	21626.1	25139.2	25377.5	24767.9	24252.3	20961.5
65°	7922.2	8107.8	8779.2	10999.8	14716.8	19653.0	24573.1	24994.8	24598.3	23887.9	19946.3
67.5°	4448.1	4438.9	5181.4	7198.0	10300.9	15415.8	22219.6	23111.1	23028.6	21435.9	16534.1
70°	2177.0	2211.4	2516.2	3730.8	5974.3	10635.4	18463.7	19426.1	19455.9	16836.6	11432.9
72.5°	985.4	1001.4	1219.1	1817.3	3070.8	5662.6	12723.1	13642.1	13472.5	10729.4	6313.4
75°	520.2	554.6	671.4	914.4	1480.4	2335.2	6920.7	7809.9	7454.7	4901.8	2323.7
77.5°	385.0	396.5	456.0	582.1	792.9	909.8	2986.0	3552.0	3327.4	1773.7	770.0
80°	281.9	291.0	339.2	412.5	499.6	462.9	1125.2	1290.2	1157.3	602.7	236.0
82.5°	171.9	174.2	247.5	307.1	314.0	259.0	371.2	398.7	417.1	339.2	128.3
85°	61.9	77.9	167.3	222.3	185.6	130.6	155.8	171.9	187.9	215.4	75.6
87.5°	6.9	9.2	80.2	107.7	52.7	48.1	57.3	64.2	68.7	80.2	36.7
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°	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7	3407.7
2.5°	3428.3	3437.4	3430.6	3419.1	3416.8	3409.9	3396.2	3396.2	3396.2	3400.8	3396.2
5°	3478.7	3485.6	3469.5	3446.6	3421.4	3389.3	3354.9	3334.3	3332.0	3327.4	3316.0
7.5°	3574.9	3584.1	3547.4	3492.4	3423.7	3345.8	3272.4	3203.7	3171.6	3146.4	3146.4
10°	3714.7	3723.9	3650.6	3552.0	3414.5	3256.4	3082.2	2924.1	2800.4	2743.1	2729.3
12.5°	3882.0	3886.6	3765.1	3593.3	3366.4	3061.6	2690.4	2344.3	2103.7	1993.7	1982.3
15°	4065.3	4033.3	3872.9	3609.3	3228.9	2660.6	2018.9	1595.0	1345.2	1271.9	1299.4
17.5°	4251.0	4191.4	3955.4	3584.1	2919.5	2018.9	1356.6	1088.5	1010.6	990.0	990.0
20°	4425.1	4342.6	4014.9	3474.1	2383.3	1391.0	1006.0	941.9	928.1	914.4	916.7
22.5°	4599.3	4473.3	4067.6	3228.9	1776.0	994.6	900.6	880.0	861.7	843.3	841.0
25°	4768.9	4594.7	4088.3	2775.2	1210.0	854.8	822.7	795.2	758.5	737.9	733.3
27.5°	4945.3	4741.4	4074.5	2202.3	882.3	765.4	733.3	694.4	650.8	614.2	614.2
30°	5284.5	5021.0	4026.4	1583.5	742.5	673.7	632.5	570.6	522.5	485.8	483.5
32.5°	5747.4	5385.3	3861.4	1113.7	660.0	593.5	531.7	462.9	412.5	385.0	385.0
35°	6159.9	5752.0	3552.0	820.4	593.5	515.6	440.0	373.5	334.6	316.2	309.4
37.5°	6787.8	6288.2	3125.8	666.9	529.4	446.9	369.0	307.1	275.0	261.2	261.2
40°	7729.7	6943.6	2603.3	584.4	467.5	380.4	307.1	259.0	233.7	217.7	217.7
42.5°	8898.4	7745.7	2073.9	524.8	410.2	327.7	256.7	220.0	197.1	185.6	183.3
45°	10369.6	8591.3	1597.3	469.8	364.4	279.6	217.7	185.6	162.7	155.8	158.1
47.5°	11905.0	9336.1	1237.5	421.7	316.2	236.0	185.6	160.4	144.4	135.2	135.2
50°	13215.8	9849.4	939.6	366.7	279.6	199.4	162.7	144.4	130.6	126.0	123.7
52.5°	14311.2	9998.4	719.6	318.5	245.2	171.9	144.4	130.6	119.2	112.3	112.3
55°	15243.9	9867.8	563.7	268.1	206.2	149.0	128.3	116.9	103.1	96.2	94.0
57.5°	15789.3	9448.4	430.8	222.3	167.3	123.7	112.3	98.5	82.5	71.0	71.0
60°	16064.3	8838.8	330.0	183.3	128.3	98.5	91.7	73.3	57.3	48.1	45.8
62.5°	15734.3	8029.9	249.8	144.4	96.2	73.3	61.9	52.7	36.7	27.5	27.5
63°	15530.4	7796.1	240.6	137.5	89.4	68.7	57.3	48.1	32.1	25.2	22.9
65°	14157.7	6776.3	197.1	110.0	71.0	48.1	39.0	34.4	22.9	11.5	9.2
67.5°	11242.7	5183.7	155.8	82.5	50.4	34.4	22.9	20.6	6.9	0.0	0.0
70°	7601.3	3348.1	121.5	59.6	34.4	20.6	11.5	9.2	2.3	0.0	0.0
72.5°	3964.5	1716.4	94.0	43.5	20.6	13.7	6.9	2.3	0.0	0.0	0.0
75°	1402.5	584.4	68.7	27.5	13.7	6.9	2.3	0.0	0.0	0.0	0.0
77.5°	424.0	217.7	43.5	20.6	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	149.0	80.2	25.2	13.7	6.9	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	73.3	39.0	16.0	11.5	6.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	41.2	25.2	13.7	11.5	6.9	4.6	0.0	0.0	0.0	0.0	0.0
87.5°	29.8	18.3	13.7	11.5	9.2	4.6	2.3	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)