

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: P459270

Luminaire Tested: **GALN-SA7C-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37374 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

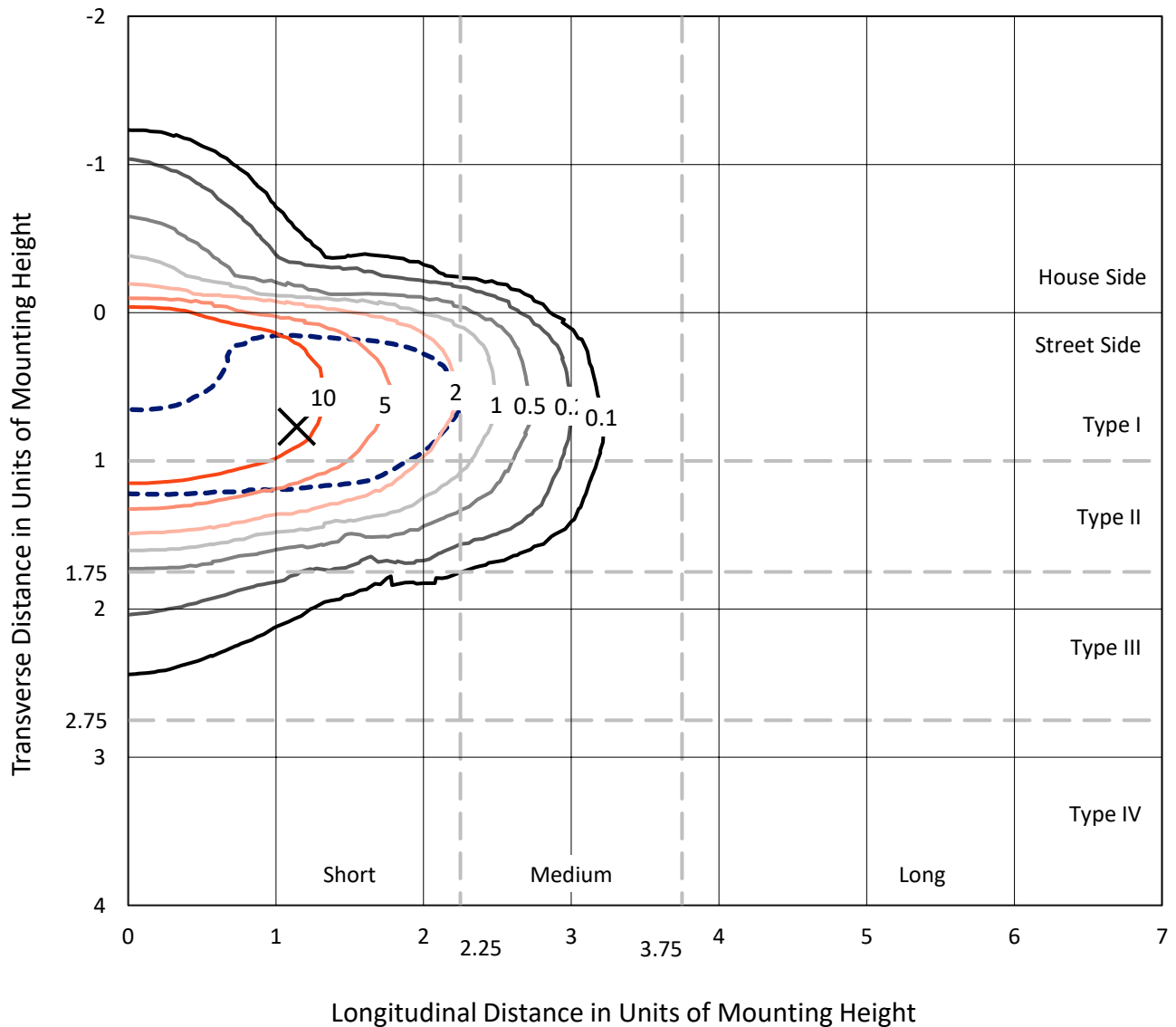
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459270
 CATALOG NUMBER: GALN-SA7C-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

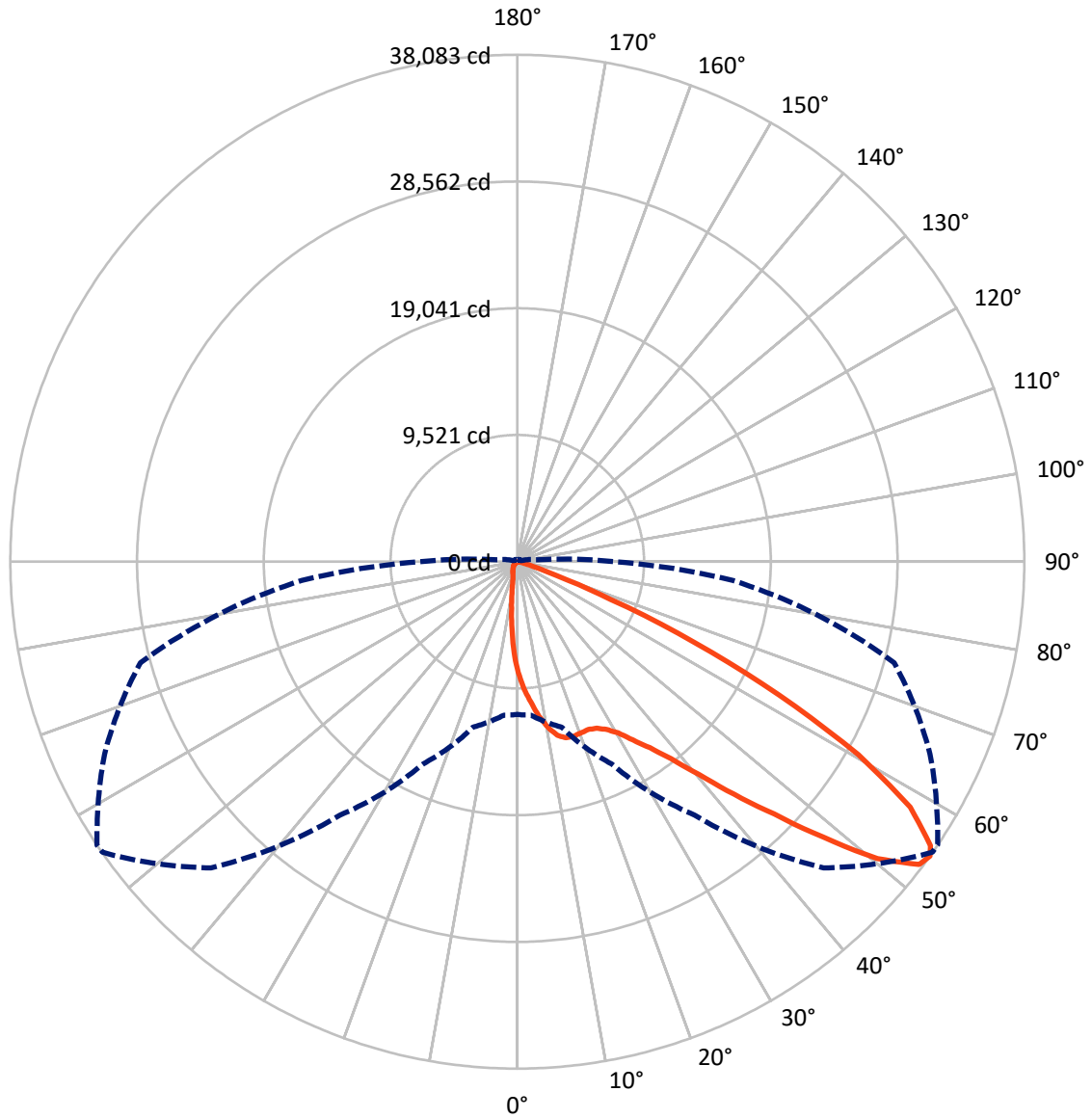
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

REPORT NUMBER: P459270
CATALOG NUMBER: GALN-SA7C-735-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P459270
 CATALOG NUMBER: GALN-SA7C-735-U-AFL-HSS

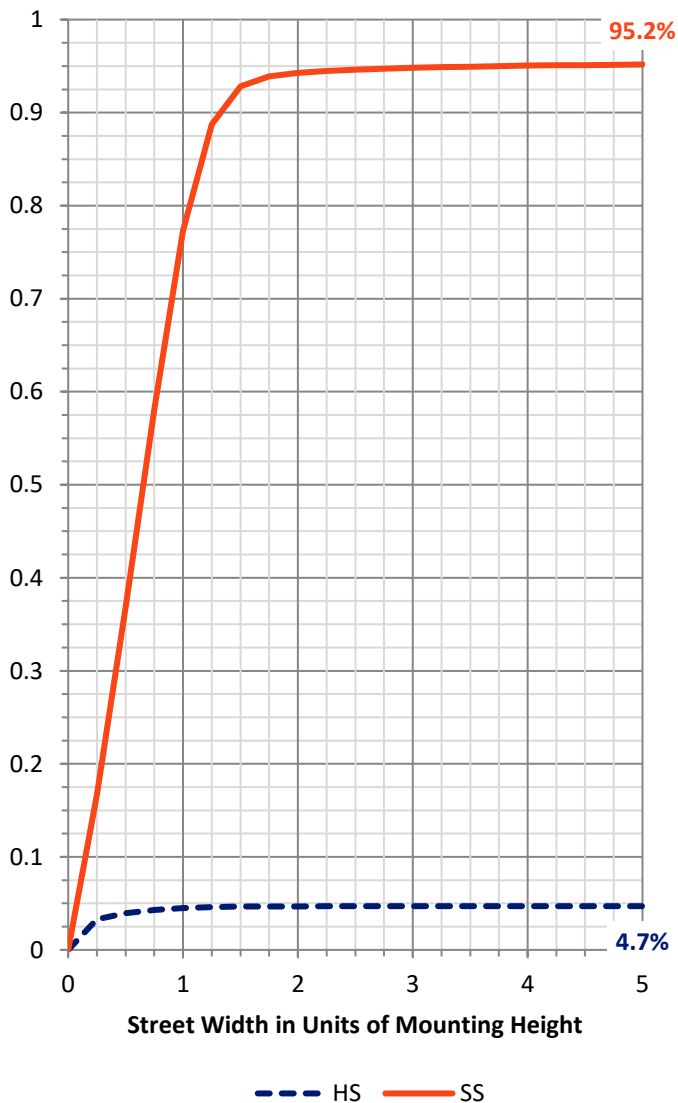
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.3	0.0	1767.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	35606.7	0.0	35606.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	37374.0	0.0	37374.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.7	2.0
10°-20°	1983.6	5.3
20°-30°	3435.3	9.2
30°-40°	5929.9	15.9
40°-50°	10093.0	27.0
50°-60°	9988.2	26.7
60°-70°	4558.8	12.2
70°-80°	585.5	1.6
80°-90°	66.0	0.2
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°	37374.0	100.0
0°-180°	37374.0	100.0



REPORT NUMBER: P459270

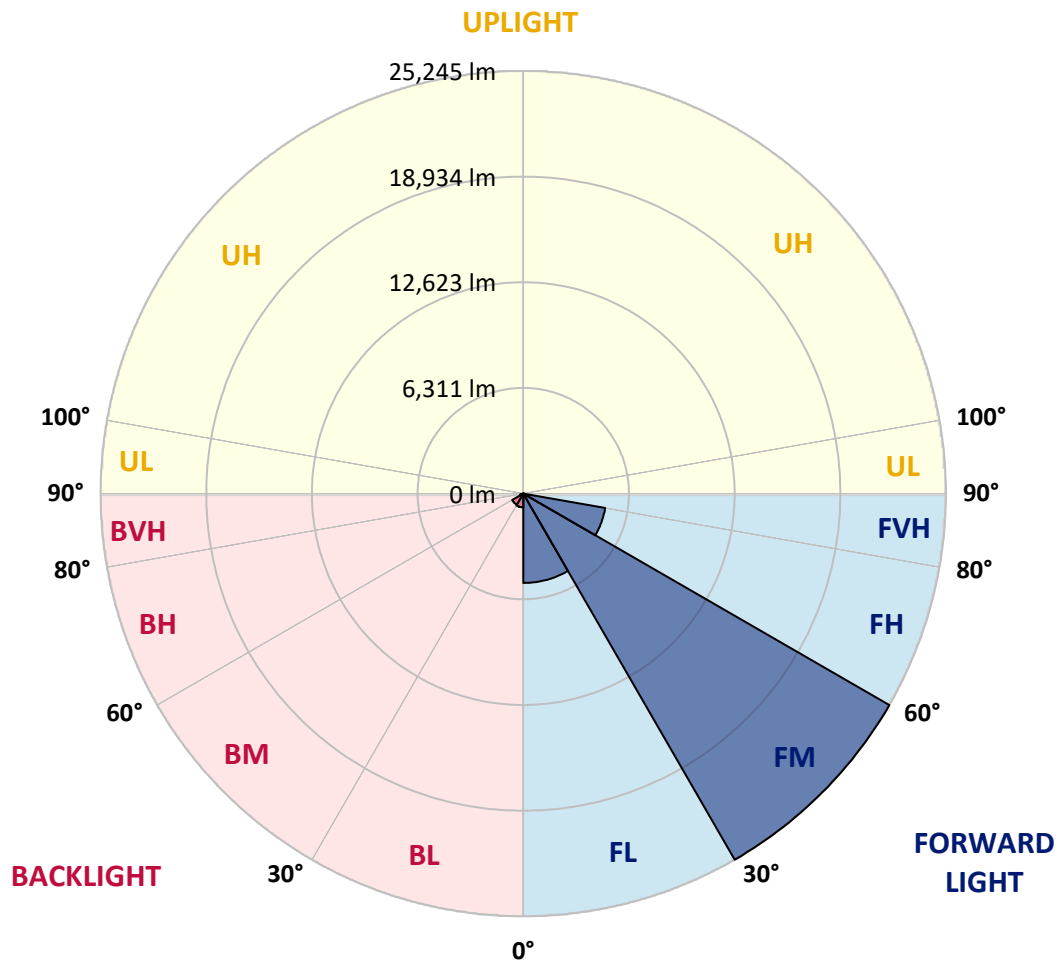
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5335.3	14.3			
FM	(30°-60°)	25245.2	67.5			
FH	(60°-80°)	4967.3	13.3			G2/5000
FVH	(80°-90°)	58.9	0.2			G1/100
BL	(0°-30°)	817.3	2.2	B2/1000		
BM	(30°-60°)	765.9	2.0	B1/1000		
BH	(60°-80°)	177.0	0.5	B1/500		G1/500
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-G2

Type II Short





REPORT NUMBER: P459270

CATALOG NUMBER: GALN-SA7C-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4
2.5°	10552.6	10479.5	10378.7	10300.5	10116.4	9851.7	9571.8	9571.8	9302.0	8926.2	8543.0
5°	12171.5	12123.6	12025.2	11823.5	11616.7	11246.1	10683.8	10585.4	10103.8	9423.0	8706.9
7.5°	12829.6	12852.3	12857.3	12804.4	12706.0	12340.4	11783.2	11715.1	10946.0	10033.2	8921.2
10°	12199.2	12310.2	12418.6	12638.0	12948.1	13036.4	12721.2	12650.6	11894.1	10651.0	9153.2
12.5°	11261.2	11321.7	11382.2	11727.7	12350.5	13064.1	13394.4	13391.9	12751.4	11266.2	9448.2
15°	10825.0	10877.9	10883.0	11036.8	11576.4	12615.3	13681.9	13719.7	13588.6	12025.2	9765.9
17.5°	10915.7	10958.6	10923.3	10961.1	11243.5	12121.0	13649.1	13775.2	14266.9	12753.9	10053.4
20°	11508.3	11591.5	11455.4	11349.4	11435.2	11989.9	13538.1	13714.7	14746.0	13465.0	10315.6
22.5°	12572.4	12617.8	12446.3	12156.3	12005.0	12264.8	13507.9	13681.9	15154.5	14047.5	10466.9
25°	13755.0	13739.9	13550.8	13225.5	12907.8	12819.5	13707.1	13863.4	15492.3	14572.0	10512.3
27.5°	14937.6	14983.0	14665.3	14261.8	13881.1	13651.6	14153.4	14269.4	15873.1	15169.6	10567.8
30°	16311.8	16238.7	15926.0	15464.6	15028.4	14708.1	14872.0	14904.8	16397.6	15961.3	10714.0
32.5°	18099.6	17897.9	17547.4	16740.5	16427.8	15885.7	15926.0	15966.4	17035.5	16745.5	10890.5
35°	20525.3	20515.2	19829.4	18742.6	17981.1	17307.8	17131.3	17164.1	18001.3	17910.5	11281.4
37.5°	23445.3	23485.6	22703.9	21609.6	20207.6	19138.5	18775.4	18780.4	19468.8	19519.2	11876.4
40°	25823.1	25929.0	25462.5	24723.7	23339.4	21667.6	21057.4	21001.9	21531.4	21468.4	12726.2
42.5°	26846.8	26945.2	27119.2	27376.4	26614.8	25235.6	23795.8	23871.4	24032.8	23591.5	13679.3
45°	26345.0	26501.4	27184.7	28773.3	29489.4	29025.4	27308.3	27043.5	26360.2	25898.7	14637.5
47.5°	24254.7	24635.4	25777.7	28422.8	30929.2	32497.6	31272.1	30921.6	28690.1	27583.1	15247.7
50°	20817.8	20840.5	22431.6	25813.0	30182.8	34688.8	35319.2	35057.0	30861.1	28528.7	15555.4
52.5°	15091.4	15588.2	17045.6	20961.6	26950.2	34356.0	37898.7	37790.3	33100.2	29012.8	15999.2
54°	11473.0	11568.8	12864.9	16750.6	23236.0	32527.9	38057.6	38082.8	34212.2	29305.3	16261.4
55°	9405.3	9175.9	10537.5	14269.4	20701.8	30911.5	37538.2	37659.2	34711.5	29456.6	16455.6
57.5°	4458.1	4460.6	5502.0	7526.8	12965.8	24002.5	34363.5	34792.2	34767.0	29716.3	17053.2
60°	2256.8	2271.9	2501.4	3474.7	6404.7	15956.3	28412.7	29433.9	32091.6	29754.2	17249.8
62.5°	1578.5	1560.8	1523.0	1671.8	2695.5	8109.3	21153.2	22040.8	27265.4	28314.4	16624.5
65°	1351.5	1313.7	1207.8	1185.1	1361.6	3230.1	13175.0	14622.4	20817.8	24516.9	14844.3
67.5°	1154.9	1139.7	1043.9	985.9	963.2	1407.0	6798.1	7559.6	14229.0	17623.0	11243.5
70°	980.9	973.3	915.3	842.2	779.2	842.2	2521.5	3124.2	7930.2	9488.6	5305.3
72.5°	796.8	804.4	814.5	721.2	655.6	597.6	1076.7	1253.2	3318.3	3391.5	1855.9
75°	698.5	690.9	690.9	627.9	547.2	443.8	592.6	637.9	1016.2	943.1	431.2
77.5°	491.7	474.0	554.7	516.9	456.4	315.2	337.9	358.1	421.1	360.6	201.7
80°	340.4	340.4	355.5	464.0	411.0	229.5	206.8	221.9	249.6	214.3	116.0
82.5°	191.6	196.7	232.0	247.1	239.5	153.8	136.2	138.7	166.4	146.2	73.1
85°	22.7	37.8	133.6	131.1	98.3	68.1	75.6	78.2	103.4	90.8	42.9
87.5°	2.5	5.0	27.7	35.3	25.2	27.7	27.7	27.7	35.3	40.3	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459270

CATALOG NUMBER: GALN-SA7C-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4	8303.4
2.5°	8336.2	8144.6	7688.2	7158.6	6820.8	6271.1	5807.1	5471.7	5388.5	5227.2	5275.1
5°	8326.1	7927.7	6997.3	6013.9	4964.9	4183.2	3600.8	3141.8	2940.1	2806.5	2713.2
7.5°	8331.2	7708.3	6215.6	4649.7	3396.5	2630.0	2090.4	1810.5	1623.9	1545.7	1555.8
10°	8346.3	7461.2	5307.8	3444.4	2292.1	1699.5	1369.2	1235.6	1172.5	1162.4	1159.9
12.5°	8381.6	7191.4	4440.4	2556.8	1603.7	1235.6	1109.5	1064.1	1043.9	1043.9	1036.4
15°	8419.4	6893.9	3719.3	1901.2	1235.6	1061.6	1003.6	980.9	968.3	968.3	965.7
17.5°	8419.4	6551.0	3046.0	1475.1	1064.1	975.8	930.4	900.2	890.1	890.1	887.6
20°	8366.5	6152.6	2448.4	1187.6	965.7	895.1	849.8	817.0	804.4	799.3	796.8
22.5°	8182.4	5620.5	1949.1	1021.2	885.1	824.5	766.5	728.7	718.6	713.6	716.1
25°	7854.6	5020.4	1543.2	897.7	811.9	738.8	688.4	660.6	650.6	650.6	653.1
27.5°	7516.7	4392.5	1222.9	804.4	723.7	658.1	617.8	600.1	597.6	605.2	607.7
30°	7204.0	3762.1	991.0	728.7	645.5	590.0	562.3	557.3	557.3	559.8	562.3
32.5°	6856.1	3209.9	829.6	663.2	582.5	534.6	519.4	519.4	524.5	524.5	529.5
35°	6636.7	2735.9	728.7	600.1	534.6	494.2	484.1	486.7	494.2	504.3	509.4
37.5°	6518.2	2357.6	663.2	549.7	489.2	461.4	451.4	456.4	474.0	491.7	494.2
40°	6528.3	2072.7	610.2	506.8	453.9	423.6	416.1	431.2	448.8	466.5	469.0
42.5°	6639.2	1860.9	559.8	456.4	423.6	380.8	378.2	393.4	400.9	418.6	421.1
45°	6770.3	1707.1	506.8	403.4	368.1	330.3	332.8	345.5	355.5	383.3	388.3
47.5°	6810.7	1601.2	446.3	342.9	302.6	290.0	292.5	300.1	320.2	345.5	348.0
50°	6856.1	1535.6	388.3	290.0	257.2	254.7	257.2	262.2	274.8	284.9	282.4
52.5°	7050.2	1533.1	340.4	252.2	219.4	224.4	226.9	224.4	214.3	199.2	194.2
54°	7231.8	1540.7	317.7	234.5	201.7	209.3	206.8	194.2	168.9	153.8	146.2
55°	7378.0	1548.2	305.1	221.9	191.6	194.2	196.7	171.5	138.7	123.6	118.5
57.5°	7665.5	1530.6	274.8	194.2	168.9	158.9	156.3	113.5	75.6	65.6	60.5
60°	7521.8	1381.8	249.6	166.4	143.7	128.6	105.9	63.0	37.8	27.7	27.7
62.5°	6956.9	1172.5	221.9	136.2	118.5	98.3	55.5	35.3	17.7	10.1	7.6
65°	6223.2	985.9	199.2	108.4	93.3	63.0	30.3	22.7	7.6	0.0	0.0
67.5°	4627.0	731.2	168.9	85.7	70.6	40.3	20.2	12.6	2.5	0.0	0.0
70°	2143.3	446.3	143.7	65.6	50.4	30.3	15.1	7.6	0.0	0.0	0.0
72.5°	615.3	279.9	118.5	47.9	35.3	25.2	12.6	5.0	2.5	0.0	0.0
75°	214.3	224.4	88.3	35.3	27.7	17.7	10.1	5.0	2.5	0.0	0.0
77.5°	128.6	181.6	55.5	30.3	22.7	15.1	10.1	5.0	2.5	2.5	0.0
80°	73.1	121.0	35.3	25.2	20.2	12.6	7.6	5.0	2.5	2.5	0.0
82.5°	40.3	58.0	27.7	22.7	17.7	12.6	7.6	5.0	2.5	2.5	2.5
85°	32.8	30.3	22.7	20.2	15.1	10.1	7.6	2.5	0.0	0.0	0.0
87.5°	25.2	20.2	20.2	20.2	15.1	10.1	7.6	2.5	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)