

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: P456268

Luminaire Tested: **GALN-SA7C-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33338 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

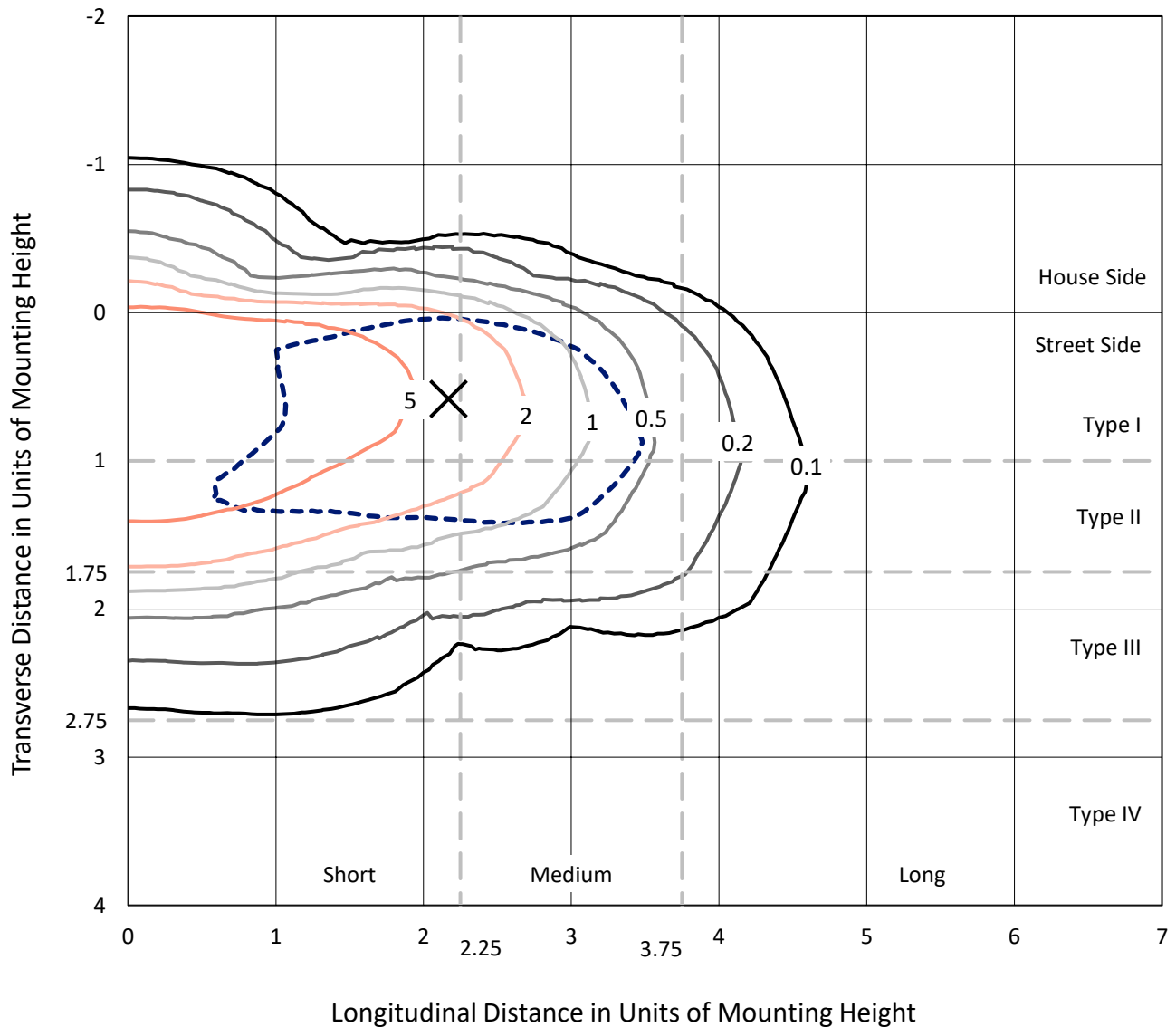
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

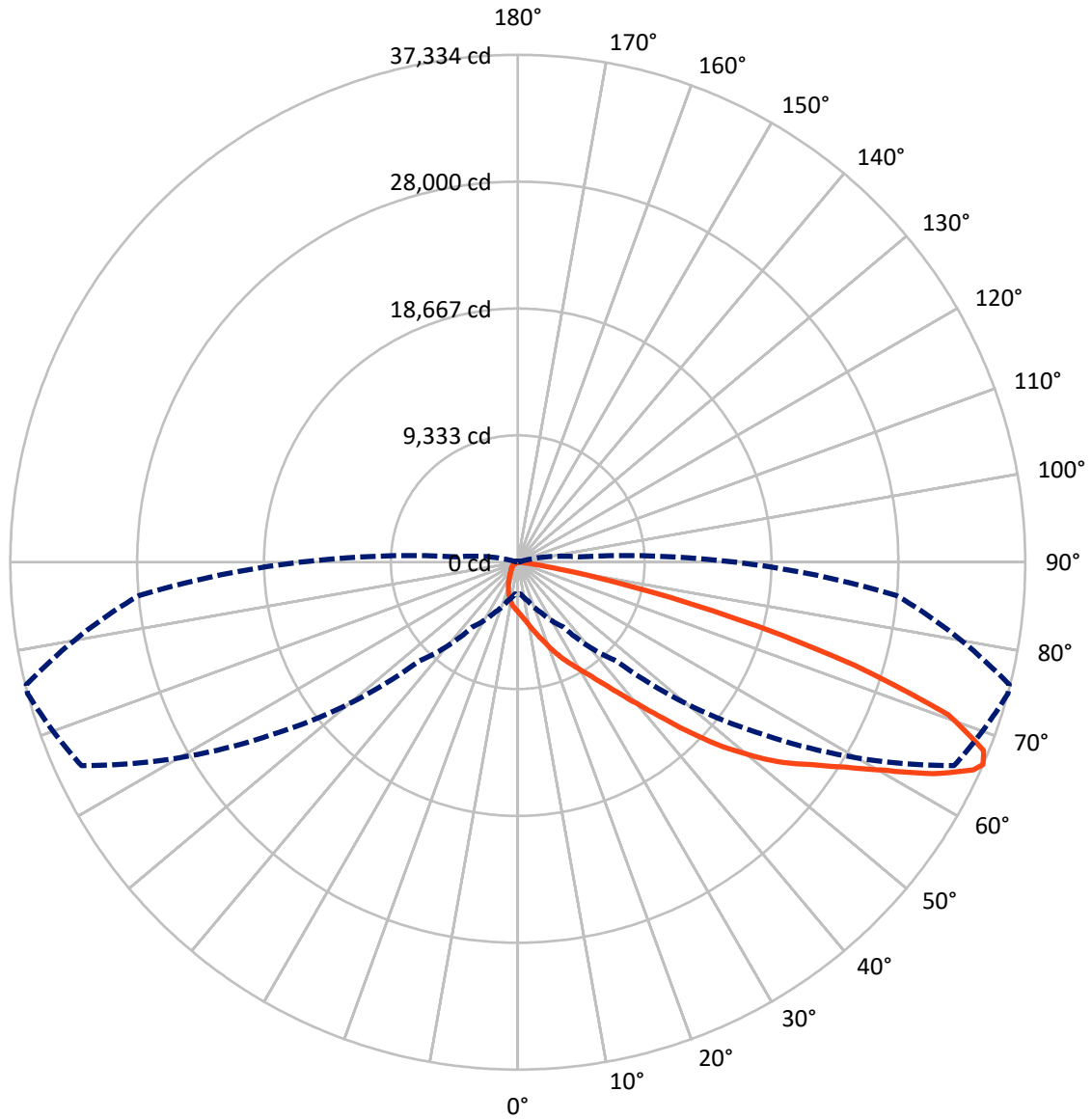
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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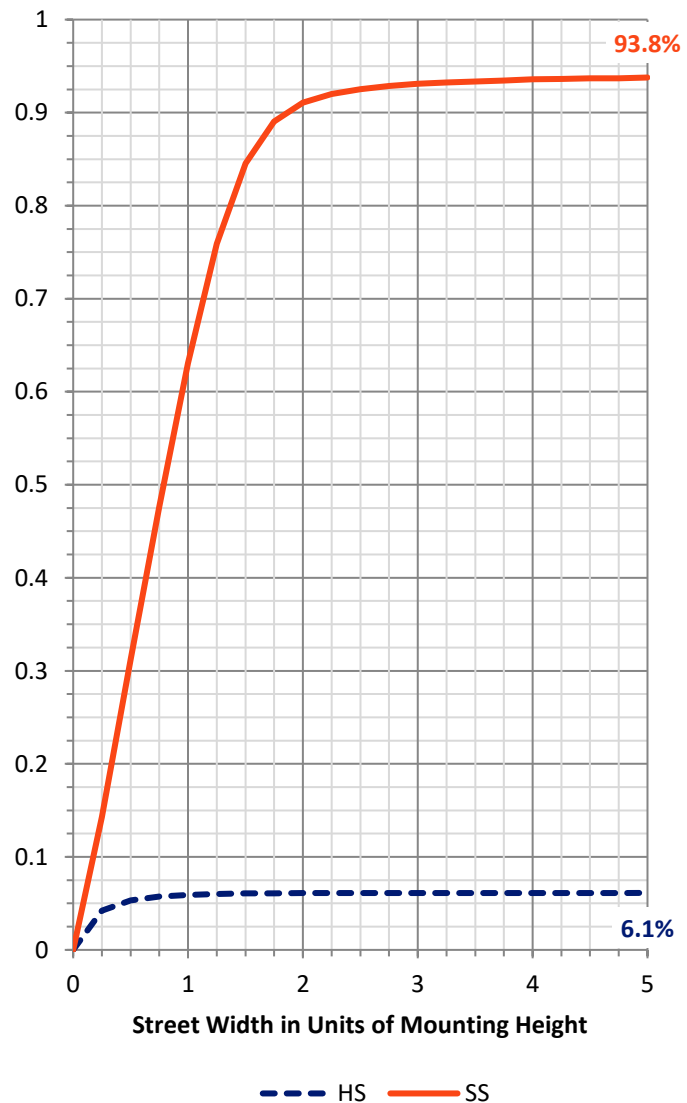
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.1	0.0	2058.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	31279.9	0.0	31279.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	33338.0	0.0	33338.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.6	1.1
10°-20°	1034.9	3.1
20°-30°	1787.1	5.4
30°-40°	3223.5	9.7
40°-50°	5823.3	17.5
50°-60°	9078.6	27.2
60°-70°	8624.3	25.9
70°-80°	3232.2	9.7
80°-90°	182.4	0.5
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°	33338.0	100.0
0°-180°	33338.0	100.0



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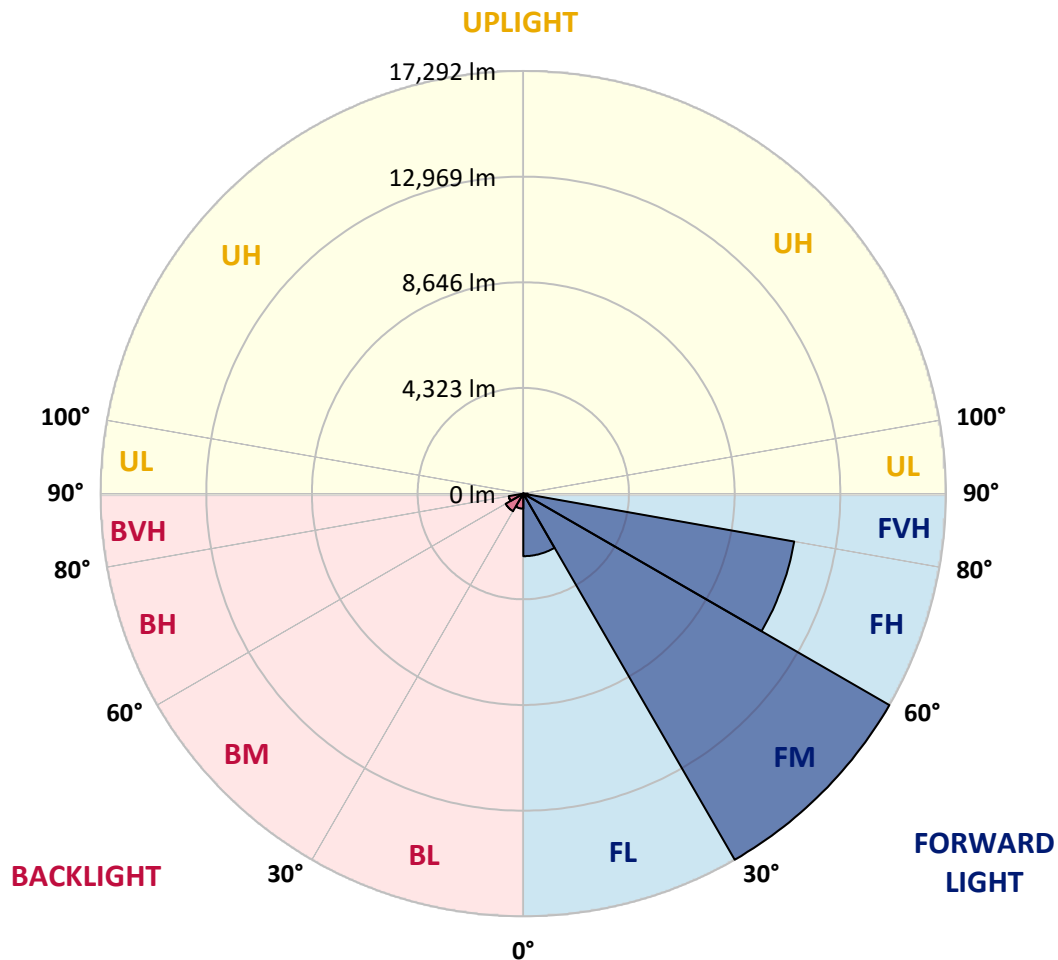
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.0	7.7			
FM (30°-60°)	17292.4	51.9			
FH (60°-80°)	11255.5	33.8			G4/12000
FVH (80°-90°)	172.9	0.5			G2/225
BL (0°-30°)	614.7	1.8	B2/1000		
BM (30°-60°)	833.1	2.5	B1/1000		
BH (60°-80°)	601.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8
2.5°	4355.8	4301.5	4318.8	4294.2	4237.5	4153.6	4079.7	3973.7	3867.7	3850.4	3732.1
5°	4930.1	4915.4	4895.6	4824.1	4784.7	4656.5	4503.7	4321.3	4101.9	4062.4	3848.0
7.5°	5322.1	5314.7	5324.6	5287.6	5253.1	5137.2	4974.5	4725.5	4385.4	4363.2	4005.7
10°	5450.3	5470.0	5507.0	5566.1	5620.4	5583.4	5460.1	5149.5	4752.7	4688.6	4185.7
12.5°	5376.3	5398.5	5487.2	5645.0	5820.0	5921.1	5871.8	5645.0	5142.1	5090.4	4387.8
15°	5186.5	5213.6	5339.3	5583.4	5896.4	6182.4	6305.7	6143.0	5595.7	5511.9	4631.9
17.5°	4905.5	4944.9	5124.9	5447.8	5876.7	6369.7	6717.3	6663.1	6078.9	6000.0	4898.1
20°	4693.5	4723.1	4875.9	5245.7	5792.9	6473.3	7109.3	7262.1	6675.4	6539.8	5211.2
22.5°	4834.0	4843.9	4895.6	5117.5	5642.5	6500.4	7454.4	7885.8	7308.9	7188.1	5536.5
25°	5521.8	5423.2	5371.4	5322.1	5610.5	6475.7	7767.4	8536.5	7940.0	7811.8	5859.5
27.5°	6606.4	6562.0	6300.7	5950.7	5884.1	6507.8	7974.5	9152.8	8534.1	8396.0	6175.0
30°	7787.2	7710.7	7550.5	7037.8	6522.6	6734.6	8124.9	9751.8	9236.6	9054.2	6463.4
32.5°	8871.8	8921.1	8682.0	8154.5	7557.9	7217.7	8319.6	10405.1	10042.7	9815.9	6798.7
35°	10136.4	10235.0	9867.7	9362.3	8664.7	8090.4	8699.2	11142.1	11065.7	10779.8	7316.3
37.5°	11420.7	11479.8	11255.5	10545.6	9917.0	9199.6	9414.1	12051.7	12325.4	12081.3	7935.1
40°	12500.4	12581.7	12416.6	11785.5	11115.0	10483.9	10451.9	13042.7	13824.1	13572.7	8857.0
42.5°	13326.2	13387.8	13392.7	12946.6	12342.6	12056.7	11775.6	14307.3	15702.5	15411.6	9926.8
45°	14368.9	14457.6	14405.9	14102.7	13651.6	13599.8	13454.4	15835.6	17950.6	17583.4	11314.7
47.5°	15981.1	16040.2	15912.0	15554.6	15096.1	15177.4	15091.2	17548.8	20243.2	19927.6	12751.8
50°	17100.2	17198.8	17381.2	17524.2	17191.4	16890.7	16634.3	19148.7	22419.8	22136.3	14221.0
52.5°	17087.9	17250.6	17827.4	18547.2	19274.4	19183.2	18446.1	20916.1	24497.9	24147.8	15601.4
55°	15936.7	16252.2	17100.2	18377.1	20391.1	21394.4	21059.1	22962.1	26292.4	26055.8	17201.3
57.5°	13560.4	13752.6	14930.9	16715.6	19767.4	22434.6	24086.2	25735.3	28444.5	28333.5	19686.1
60°	9120.8	9207.0	10723.1	12929.3	16829.0	21396.8	26304.8	29090.3	31094.4	31040.2	22587.4
62.5°	5226.0	5262.9	6362.3	8223.5	11975.3	18133.1	26492.1	33229.2	34271.9	34301.5	25944.9
65°	2812.6	2832.4	3719.8	4826.6	7286.7	12924.4	23822.4	35497.0	36840.5	36897.2	28025.4
66°	2428.1	2334.4	2960.6	4114.2	5797.8	10286.7	22133.9	35415.7	37333.5	37271.9	27951.4
67.5°	1846.3	1930.2	2364.0	3162.7	4296.6	7313.9	18273.6	33840.5	36958.8	36766.5	26815.0
70°	1321.3	1355.8	1683.6	2255.5	2926.0	4013.1	11677.0	28106.7	33591.5	33332.7	23361.5
72.5°	852.9	889.9	1193.1	1631.9	2115.0	2191.4	6537.4	20307.3	25898.0	25861.1	17593.2
75°	608.9	643.4	788.8	1168.4	1590.0	1355.8	3147.9	13686.1	16464.2	16353.3	10883.3
77.5°	441.2	458.5	527.5	764.2	1136.4	971.2	1459.3	7308.9	8196.4	8583.4	4809.4
80°	253.9	268.7	367.3	465.9	769.1	663.1	697.6	2933.4	3024.6	2879.2	1503.7
82.5°	125.7	143.0	219.4	318.0	480.7	446.2	320.5	882.5	931.8	907.1	379.6
85°	29.6	37.0	123.3	209.5	234.2	199.7	155.3	258.8	320.5	313.1	145.4
87.5°	2.5	4.9	44.4	37.0	39.4	66.6	54.2	66.6	103.5	96.1	51.8
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°	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8	3645.8
2.5°	3677.9	3631.0	3495.5	3362.4	3251.4	3135.6	3029.6	2967.9	2943.3	2916.2	2928.5
5°	3729.7	3616.3	3342.6	3106.0	2874.3	2677.1	2519.3	2418.2	2368.9	2361.5	2349.2
7.5°	3798.7	3603.9	3179.9	2810.2	2507.0	2287.6	2107.6	1962.2	1917.8	1878.4	1846.3
10°	3882.5	3581.7	2977.8	2499.6	2176.7	1900.6	1663.9	1491.4	1402.6	1378.0	1395.2
12.5°	3971.2	3539.8	2765.8	2213.6	1841.4	1488.9	1269.5	1183.2	1158.6	1148.7	1151.2
15°	4060.0	3488.1	2544.0	1937.5	1466.7	1188.2	1087.1	1064.9	1055.1	1050.1	1045.2
17.5°	4141.3	3404.3	2295.0	1668.9	1188.2	1015.6	978.6	958.9	939.2	931.8	919.5
20°	4237.5	3308.1	2070.7	1368.1	1005.7	919.5	875.1	838.1	808.5	788.8	786.4
22.5°	4328.7	3184.9	1836.5	1133.9	917.0	825.8	754.3	714.9	680.4	655.7	663.1
25°	4378.0	3034.5	1626.9	988.5	835.7	732.1	653.2	603.9	567.0	554.6	552.2
27.5°	4378.0	2849.6	1422.3	904.7	761.7	648.3	567.0	520.1	495.5	478.2	480.7
30°	4343.5	2645.0	1232.5	840.6	697.6	574.4	497.9	456.0	436.3	424.0	421.5
32.5°	4316.3	2450.3	1069.8	779.0	631.1	510.3	443.7	411.7	391.9	379.6	379.6
35°	4358.2	2282.7	944.1	717.3	569.4	461.0	401.8	372.2	352.5	342.6	340.2
37.5°	4469.2	2129.8	848.0	650.8	512.7	419.1	372.2	337.7	318.0	305.7	300.7
40°	4742.8	2043.5	776.5	589.2	458.5	384.6	337.7	305.7	281.0	268.7	266.2
42.5°	5181.6	2046.0	707.5	532.5	416.6	355.0	308.1	271.2	244.0	231.7	229.3
45°	5842.2	2139.7	653.2	478.2	379.6	322.9	276.1	236.6	212.0	199.7	199.7
47.5°	6633.5	2322.1	606.4	431.4	345.1	293.3	244.0	204.6	180.0	170.1	170.1
50°	7491.4	2558.7	559.6	382.1	315.5	261.3	209.5	177.5	157.8	150.4	150.4
52.5°	8366.5	2844.7	512.7	342.6	283.5	226.8	180.0	157.8	140.5	135.6	133.1
55°	9515.2	3209.5	463.4	300.7	249.0	194.7	160.2	138.0	118.3	110.9	108.5
57.5°	11282.6	3759.2	409.2	263.8	204.6	162.7	138.0	115.9	93.7	81.3	78.9
60°	13414.9	4429.7	352.5	231.7	165.2	133.1	110.9	88.7	69.0	54.2	51.8
62.5°	15411.6	4856.2	298.3	194.7	130.6	101.1	78.9	66.6	49.3	34.5	32.0
65°	16294.1	4713.2	246.5	157.8	103.5	71.5	51.8	46.8	29.6	14.8	12.3
66°	16000.8	4501.2	226.8	143.0	93.7	61.6	44.4	39.4	22.2	7.4	7.4
67.5°	15135.5	4000.8	197.2	123.3	81.3	49.3	34.5	29.6	12.3	2.5	0.0
70°	12968.7	3236.6	155.3	91.2	59.2	34.5	19.7	14.8	7.4	0.0	0.0
72.5°	9961.4	2410.8	123.3	69.0	41.9	19.7	9.9	4.9	7.4	0.0	0.0
75°	6103.5	1378.0	96.1	51.8	27.1	12.3	7.4	0.0	7.4	2.5	0.0
77.5°	2709.1	618.7	64.1	34.5	19.7	9.9	4.9	0.0	4.9	2.5	0.0
80°	685.3	202.1	37.0	24.7	14.8	7.4	2.5	0.0	4.9	4.9	2.5
82.5°	187.3	74.0	27.1	19.7	12.3	7.4	2.5	0.0	4.9	4.9	4.9
85°	74.0	34.5	24.7	19.7	14.8	7.4	2.5	0.0	4.9	4.9	4.9
87.5°	34.5	24.7	24.7	22.2	17.3	7.4	2.5	0.0	4.9	2.5	4.9
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)