

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: P459315

Luminaire Tested: **GALN-SA7D-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40186 lumens
Efficiency: N/A
Efficacy: 92.8 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

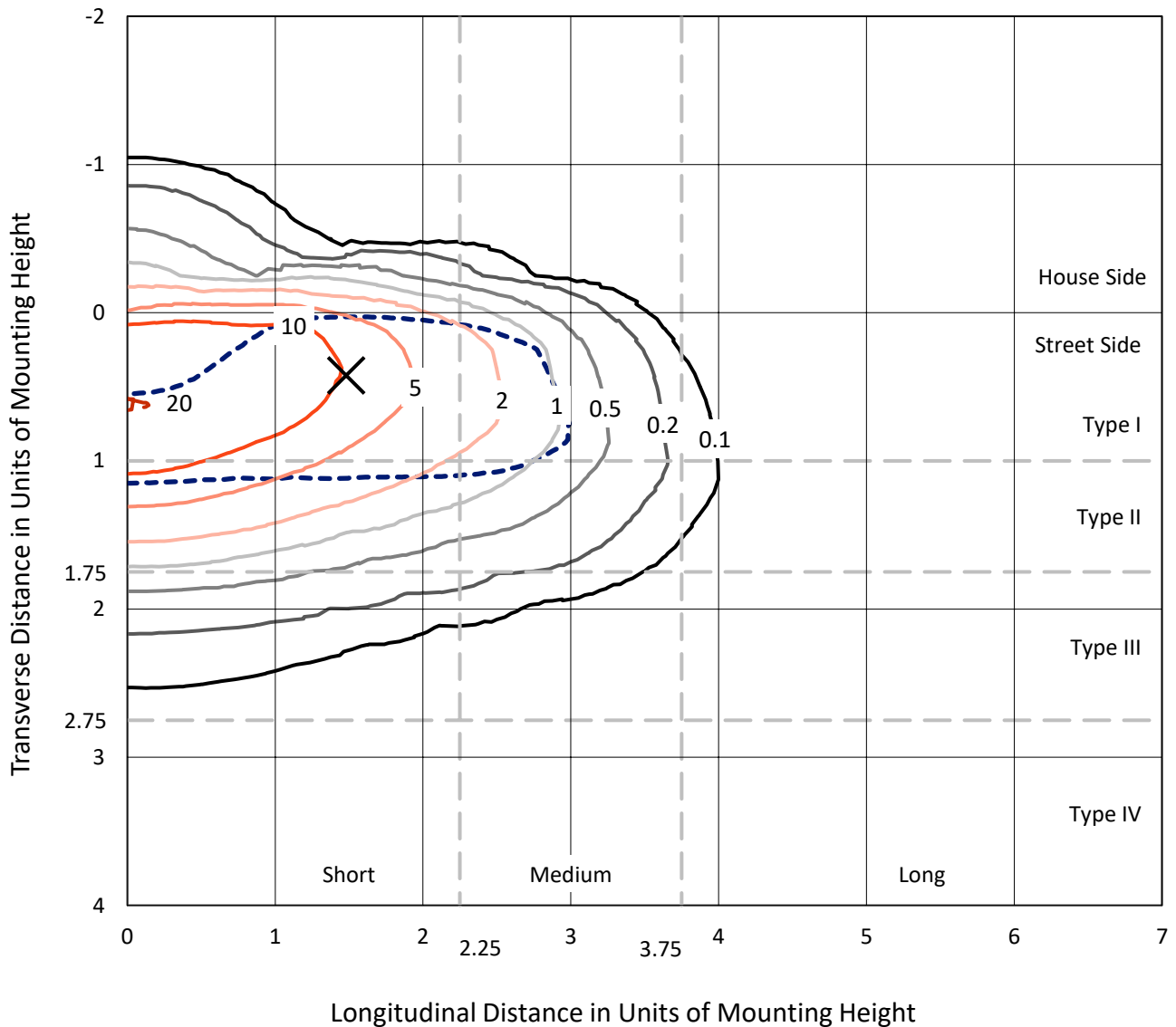
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

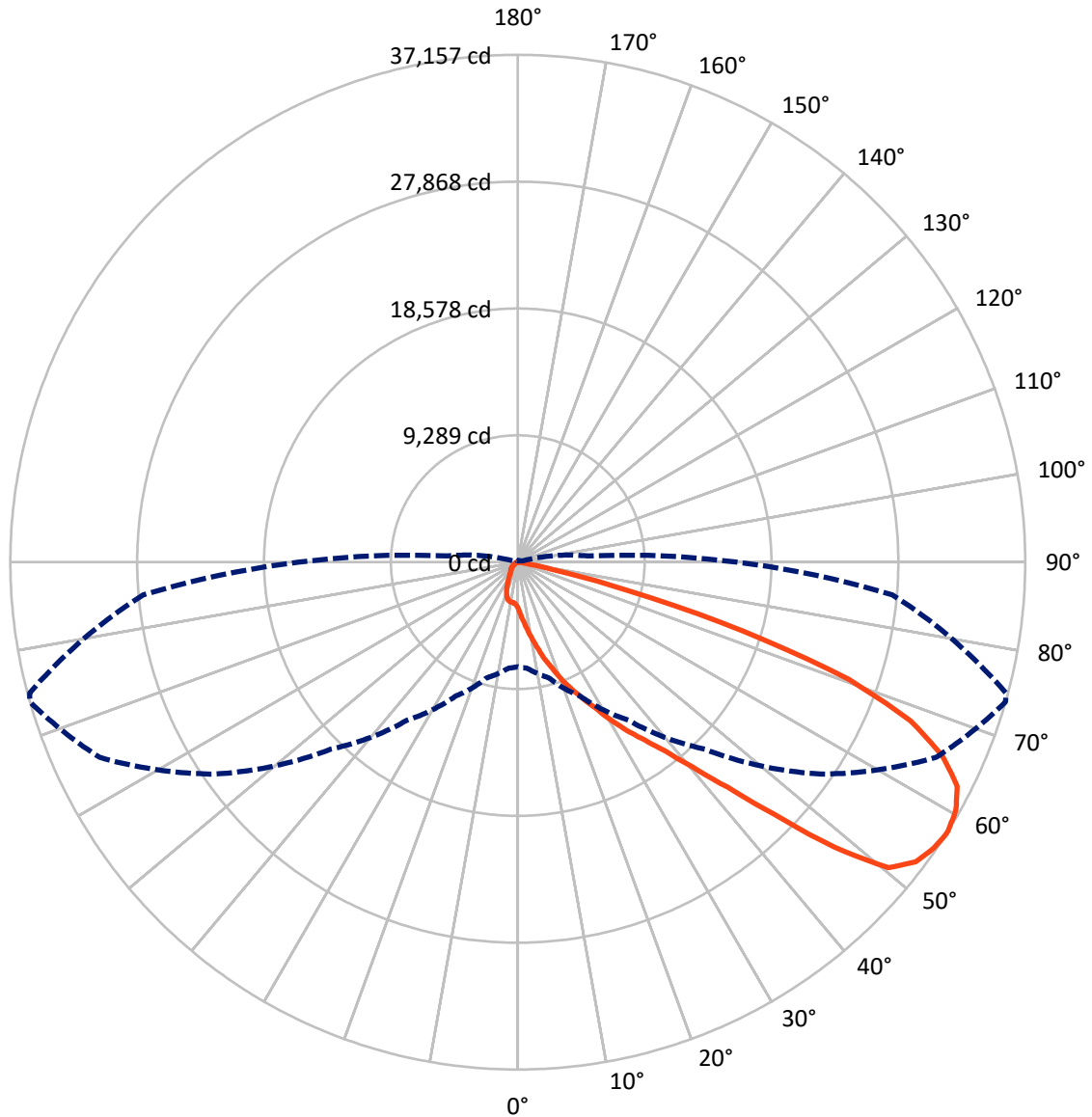
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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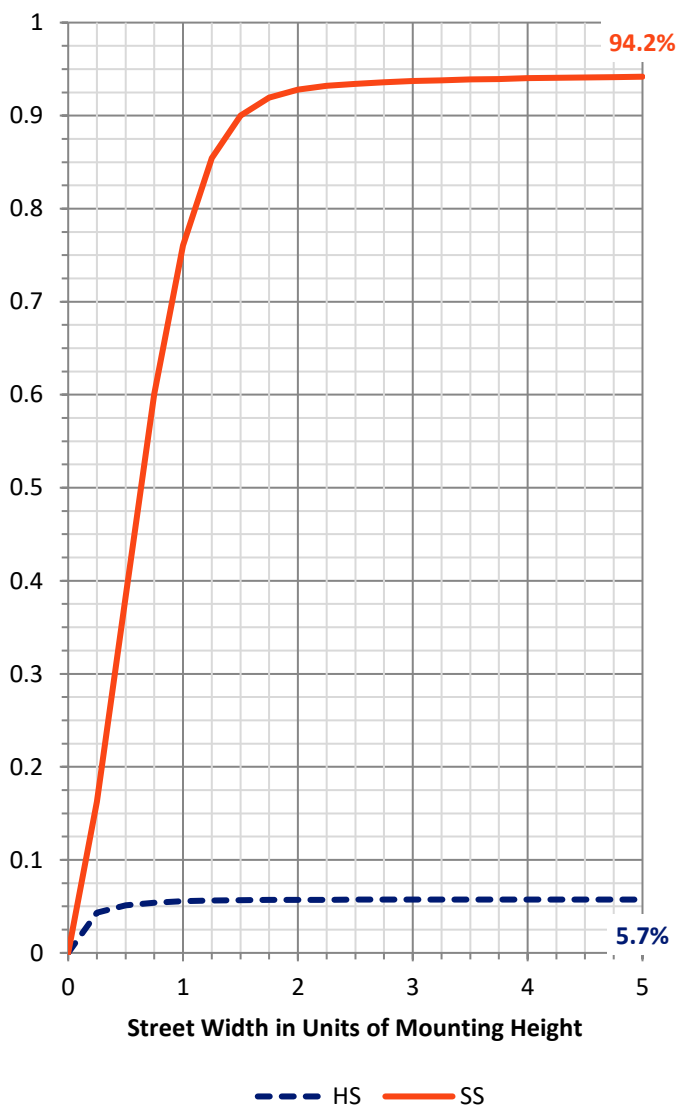
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2317.8	0.0	2317.8
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	37868.2	0.0	37868.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	40186.0	0.0	40186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	1.0
10°-20°	1601.2	4.0
20°-30°	3426.1	8.5
30°-40°	6297.2	15.7
40°-50°	9653.7	24.0
50°-60°	10212.3	25.4
60°-70°	6668.9	16.6
70°-80°	1822.2	4.5
80°-90°	98.1	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°	40186.0	100.0
0°-180°	40186.0	100.0

Coefficient of Utilization



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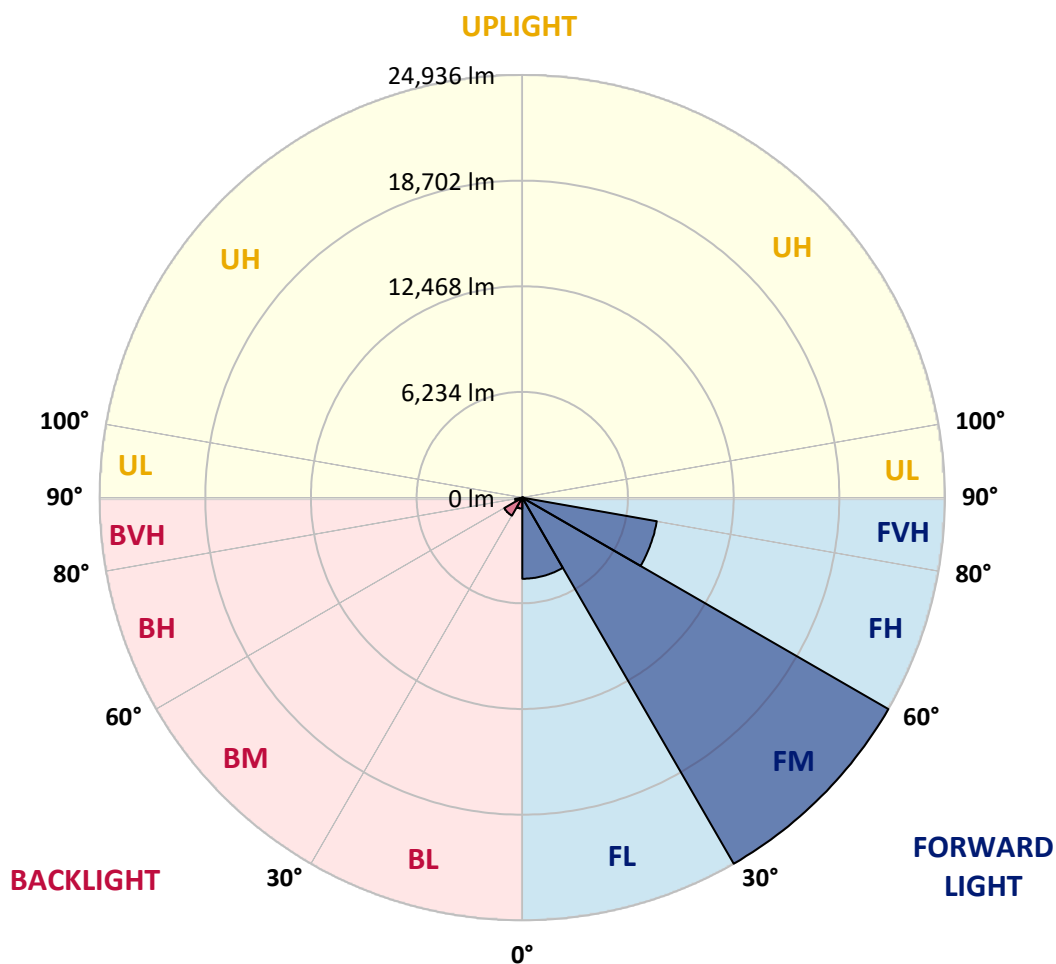
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4786.1	11.9			
FM	(30°-60°)	24936.2	62.1			
FH	(60°-80°)	8056.0	20.0			G4/12000
FVH	(80°-90°)	90.0	0.2			G1/100
BL	(0°-30°)	647.4	1.6	B2/1000		
BM	(30°-60°)	1227.1	3.1	B2/2500		
BH	(60°-80°)	435.1	1.1	B1/500		G1/500
BVH	(80°-90°)	8.1	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5
2.5°	4924.8	4880.4	4791.6	4761.1	4630.7	4428.2	4250.6	4012.0	3823.3	3803.9	3576.4
5°	6595.1	6495.2	6453.6	6253.8	5940.3	5646.2	5141.2	4758.3	4317.2	4283.9	3826.1
7.5°	8204.3	8065.6	8024.0	7835.3	7469.1	7005.7	6350.9	5654.5	4955.3	4891.5	4161.8
10°	9369.6	9389.1	9314.2	9189.3	8892.4	8420.7	7613.4	6661.7	5665.6	5585.2	4539.2
12.5°	10204.8	10202.0	10215.9	10213.1	10055.0	9697.0	8848.0	7752.1	6448.0	6289.9	4972.0
15°	10748.6	10756.9	10798.5	10942.8	10959.5	10737.5	10030.0	8795.3	7355.3	7158.3	5440.9
17.5°	11298.0	11356.2	11422.8	11558.8	11680.8	11592.1	11092.6	9882.9	8176.6	8029.5	5943.1
20°	12205.2	12285.7	12246.8	12330.1	12393.9	12402.2	12016.6	10887.3	9172.7	8925.7	6517.4
22.5°	13656.3	13653.5	13553.7	13403.8	13279.0	13273.4	12923.8	11919.5	10077.2	9838.5	7094.5
25°	15490.3	15498.6	15304.4	14877.1	14566.4	14186.3	13783.9	12824.0	11045.5	10751.4	7702.1
27.5°	17593.4	17540.7	17246.6	16658.4	16042.4	15393.2	14813.3	13875.5	12072.1	11827.9	8398.6
30°	19482.9	19463.4	19119.4	18400.8	17590.6	16938.6	16097.9	15193.4	13401.1	13101.4	9178.2
32.5°	21241.9	21269.7	20792.5	20048.9	19266.5	18514.6	17626.7	16453.1	14705.1	14280.6	10027.2
35°	22615.3	22643.1	22149.2	21530.5	20725.9	20101.6	19255.4	17795.9	15992.5	15634.6	11003.9
37.5°	23347.8	23383.9	23098.1	22632.0	22129.8	21816.3	21028.3	19524.5	17557.3	17340.9	12158.1
40°	23486.5	23528.2	23403.3	23278.4	23250.7	23475.4	23245.2	21561.0	19727.0	19388.5	13878.3
42.5°	23070.4	23125.8	23181.3	23458.8	24024.8	24848.8	25650.7	24324.5	22521.0	22066.0	15981.4
45°	21977.2	21971.6	22190.8	22909.4	24177.4	25936.5	28164.4	27784.3	26327.7	25786.6	18952.9
47.5°	20107.1	20079.4	20553.8	21577.6	23553.1	26136.2	30214.8	31985.0	31185.9	30686.5	22146.4
50°	17257.7	17393.6	18140.0	19568.9	22002.2	25531.4	30847.4	34740.1	35172.9	34643.0	24726.8
52.5°	13919.9	13914.4	15085.2	17024.6	19704.8	24199.6	30406.3	35239.5	36468.6	36063.6	25997.5
55°	10301.9	10374.0	11592.1	13548.1	16722.2	21769.1	28966.3	34726.2	36962.5	36676.7	26835.4
57°	7663.3	7790.9	8767.6	10837.4	14125.2	19363.6	27049.1	33807.9	37156.7	37001.4	27531.8
57.5°	7152.8	7158.3	8110.0	9991.1	13365.0	18439.6	26499.7	33425.0	37151.2	37065.2	27645.6
60°	4403.2	4541.9	5199.5	6753.2	9783.1	14391.6	22817.9	31224.7	36862.6	36987.5	28131.1
62.5°	2635.8	2694.1	3121.4	4070.3	6306.5	10504.4	18672.7	28408.6	36110.7	36490.8	28097.8
65°	1695.2	1709.1	1903.3	2463.8	3942.6	7100.1	14388.8	24687.9	34165.8	34865.0	26999.1
67.5°	1309.6	1331.8	1409.5	1617.6	2286.2	4422.6	10177.0	20717.5	31019.4	31921.2	24335.5
70°	1162.5	1173.6	1201.4	1268.0	1512.1	2497.1	6331.5	16183.9	25722.8	25978.1	19044.5
72.5°	948.9	979.4	1065.4	1087.6	1198.6	1559.3	3523.7	10862.4	17282.7	17346.5	10654.3
75°	735.3	740.8	868.4	932.2	1009.9	1073.7	1573.2	5477.0	8301.4	7857.5	4106.3
77.5°	549.4	574.3	632.6	713.1	824.0	768.5	704.7	2064.3	2577.6	2530.4	1193.1
80°	352.4	366.2	441.2	535.5	640.9	502.2	396.8	604.9	566.0	582.7	285.8
82.5°	177.6	180.3	283.0	435.6	407.9	252.5	249.7	246.9	210.9	208.1	133.2
85°	19.4	41.6	183.1	249.7	183.1	83.2	116.5	113.8	111.0	113.8	77.7
87.5°	2.8	2.8	30.5	36.1	25.0	27.7	33.3	36.1	44.4	41.6	33.3
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°	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5	3365.5
2.5°	3465.4	3354.4	3149.1	2952.1	2805.1	2710.7	2588.7	2544.3	2480.4	2472.1	2441.6
5°	3615.2	3404.4	3046.5	2763.4	2535.9	2363.9	2214.1	2089.2	1989.3	1967.2	1978.3
7.5°	3828.9	3515.4	3015.9	2630.3	2314.0	2019.9	1781.3	1634.2	1528.8	1489.9	1495.5
10°	4070.3	3662.4	3010.4	2488.8	2006.0	1645.3	1384.5	1254.1	1193.1	1170.9	1145.9
12.5°	4356.0	3831.6	2996.5	2269.6	1667.5	1312.4	1126.5	1048.8	990.5	973.9	973.9
15°	4677.9	4012.0	2929.9	1997.7	1354.0	1084.8	960.0	899.0	879.5	862.9	862.9
17.5°	5013.6	4189.6	2791.2	1662.0	1123.7	929.5	851.8	815.7	788.0	768.5	768.5
20°	5396.5	4364.4	2569.2	1365.1	948.9	829.6	768.5	726.9	704.7	688.1	682.5
22.5°	5760.0	4505.9	2286.2	1120.9	826.8	746.4	690.9	646.5	624.3	615.9	615.9
25°	6137.3	4591.9	1945.0	926.7	754.7	677.0	615.9	579.9	560.5	554.9	552.1
27.5°	6503.5	4641.8	1645.3	810.2	688.1	613.2	554.9	527.2	507.7	502.2	505.0
30°	6947.5	4650.1	1354.0	726.9	629.8	552.1	499.4	474.4	463.3	457.8	455.0
32.5°	7396.9	4639.0	1137.6	677.0	574.3	499.4	455.0	435.6	427.3	419.0	419.0
35°	7901.9	4580.8	968.3	627.0	521.6	455.0	416.2	399.5	388.4	380.1	377.3
37.5°	8529.0	4550.3	871.2	571.6	474.4	413.4	377.3	360.7	352.4	341.3	338.5
40°	9516.7	4686.2	840.7	521.6	427.3	374.6	341.3	321.8	310.7	299.7	296.9
42.5°	10748.6	4924.8	790.7	471.7	385.7	338.5	305.2	283.0	263.6	249.7	244.2
45°	12344.0	5238.3	713.1	419.0	349.6	299.7	269.1	241.4	216.4	205.3	202.5
47.5°	14017.0	5540.8	643.7	377.3	310.7	266.4	233.1	202.5	180.3	172.0	169.2
50°	15043.6	5601.8	599.3	330.2	271.9	230.3	197.0	169.2	155.4	147.1	147.1
52.5°	15512.5	5504.7	538.3	288.6	235.8	202.5	169.2	147.1	138.7	133.2	130.4
55°	15839.9	5354.9	457.8	249.7	202.5	172.0	149.8	133.2	122.1	116.5	113.8
57°	16031.3	5152.3	396.8	219.2	174.8	149.8	133.2	119.3	108.2	97.1	97.1
57.5°	16039.7	5074.6	380.1	216.4	166.5	144.3	130.4	116.5	102.7	91.6	88.8
60°	15792.7	4541.9	305.2	183.1	133.2	122.1	108.2	91.6	72.1	61.0	58.3
62.5°	14999.2	3864.9	252.5	155.4	108.2	94.3	77.7	69.4	49.9	36.1	36.1
65°	13797.8	3135.2	216.4	124.9	88.8	69.4	52.7	49.9	30.5	16.6	13.9
67.5°	12061.0	2441.6	183.1	102.7	74.9	49.9	36.1	33.3	16.6	5.5	0.0
70°	9189.3	1664.7	152.6	83.2	55.5	36.1	25.0	19.4	11.1	2.8	0.0
72.5°	5296.6	915.6	127.6	63.8	41.6	27.7	19.4	11.1	11.1	0.0	0.0
75°	1892.2	394.0	97.1	47.2	33.3	22.2	13.9	5.5	8.3	2.8	0.0
77.5°	602.1	210.9	63.8	36.1	27.7	16.6	11.1	5.5	5.5	2.8	0.0
80°	177.6	111.0	38.8	30.5	19.4	13.9	8.3	2.8	5.5	2.8	0.0
82.5°	97.1	55.5	30.5	22.2	19.4	11.1	8.3	2.8	2.8	2.8	0.0
85°	49.9	33.3	25.0	22.2	19.4	11.1	8.3	2.8	0.0	2.8	2.8
87.5°	27.7	25.0	25.0	22.2	19.4	13.9	8.3	2.8	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)