

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: P459489

Luminaire Tested: **GALN-SA9B-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459489
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-SA9B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 38473 lumens
Efficiency: N/A
Efficacy: 105.7 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

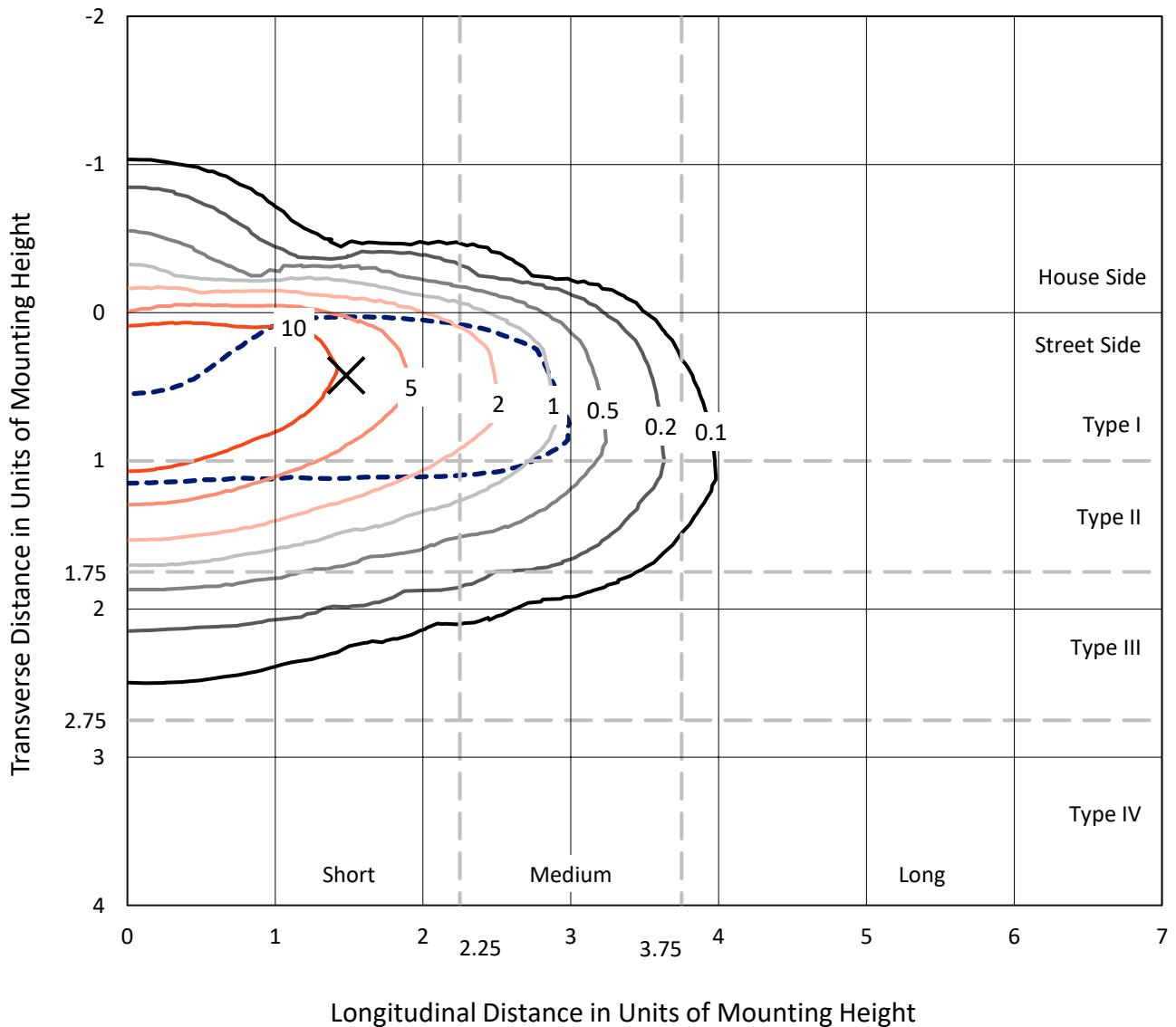
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

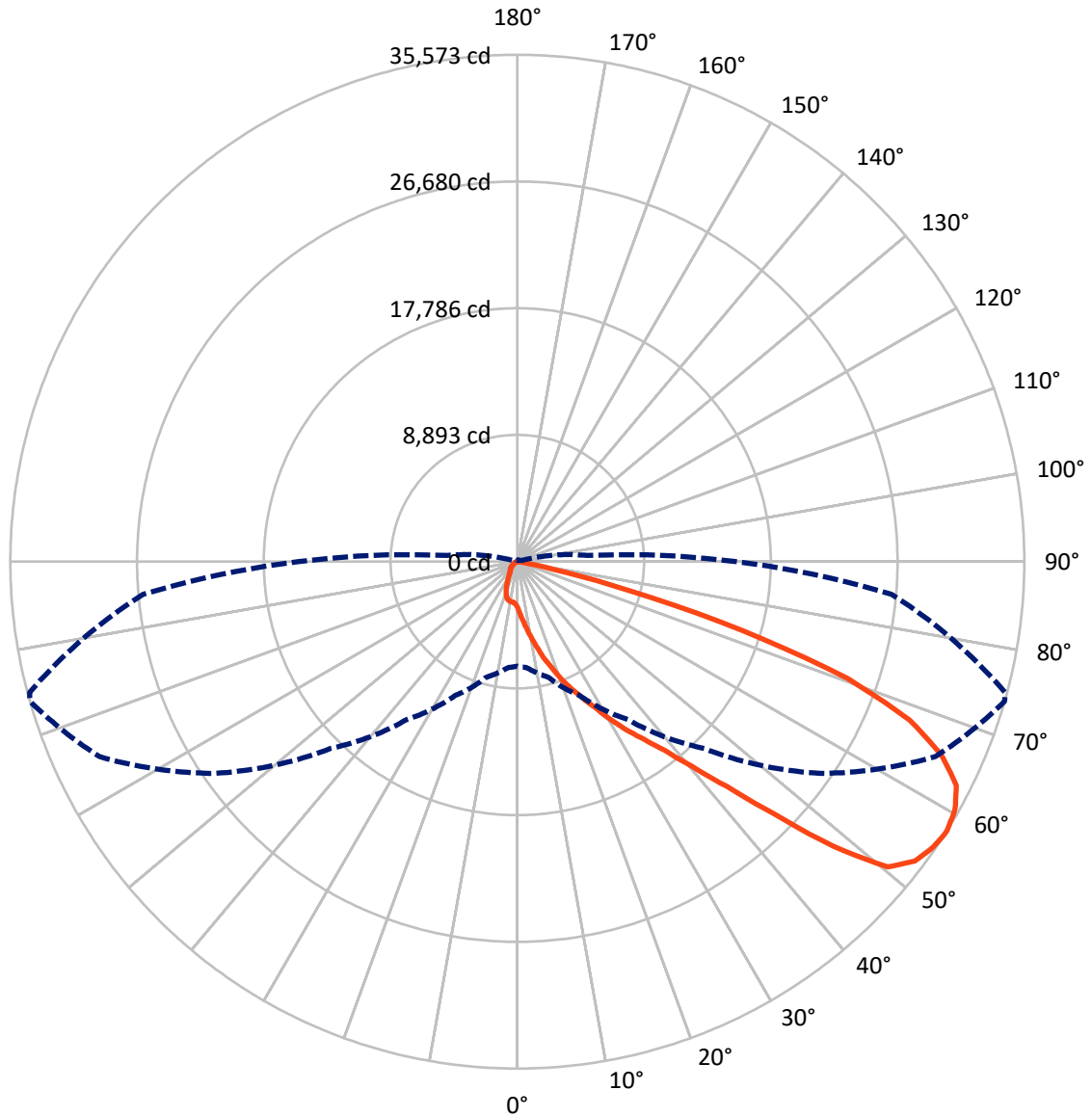
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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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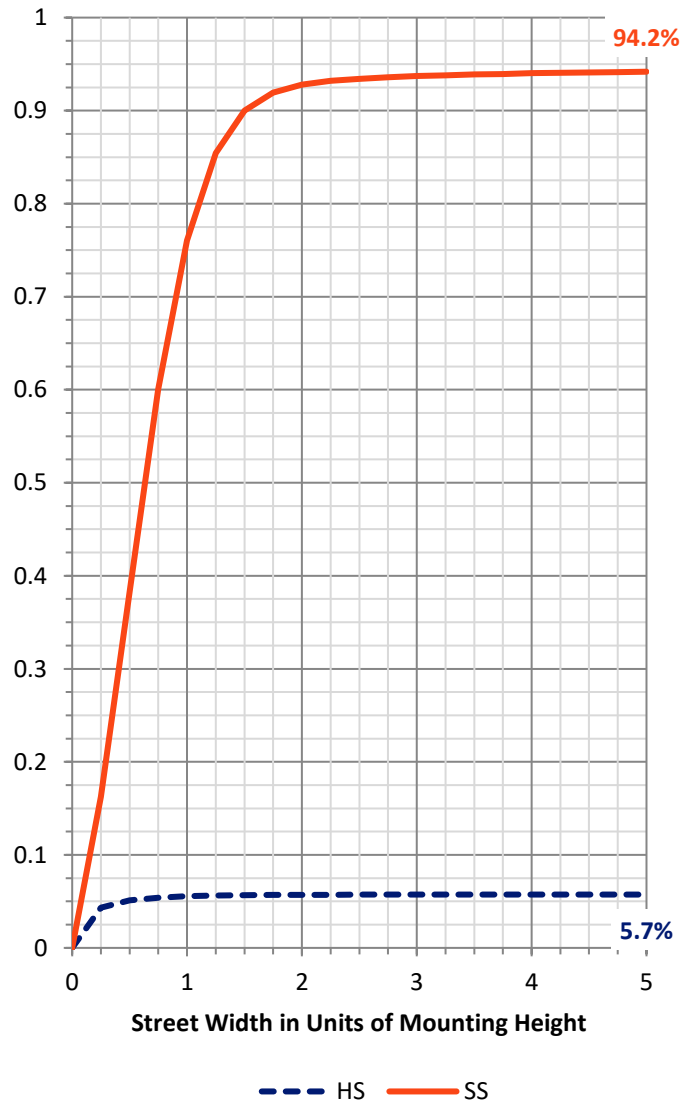
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2219.0	0.0	2219.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	36254.0	0.0	36254.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	38473.0	0.0	38473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	1.0
10°-20°	1532.9	4.0
20°-30°	3280.1	8.5
30°-40°	6028.8	15.7
40°-50°	9242.2	24.0
50°-60°	9777.0	25.4
60°-70°	6384.6	16.6
70°-80°	1744.5	4.5
80°-90°	93.9	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°	38473.0	100.0
0°-180°	38473.0	100.0

Coefficient of Utilization



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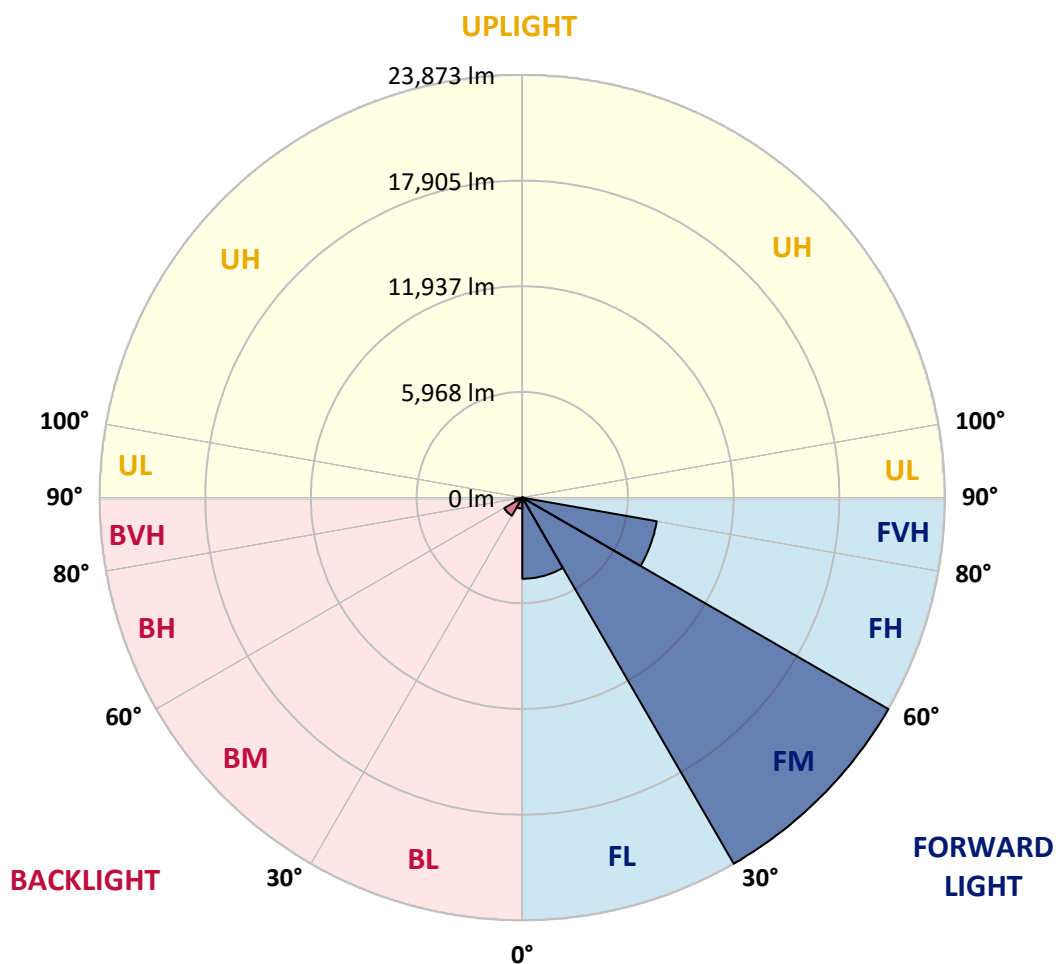
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4582.1	11.9			
FM	(30°-60°)	23873.2	62.1			
FH	(60°-80°)	7712.6	20.0			G4/12000
FVH	(80°-90°)	86.2	0.2			G1/100
BL	(0°-30°)	619.8	1.6	B2/1000		
BM	(30°-60°)	1174.8	3.1	B2/2500		
BH	(60°-80°)	416.6	1.1	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1
2.5°	4714.9	4672.4	4587.4	4558.2	4433.3	4239.4	4069.4	3841.0	3660.3	3641.8	3423.9
5°	6314.0	6218.3	6178.5	5987.2	5687.1	5405.5	4922.1	4555.5	4133.2	4101.3	3663.0
7.5°	7854.6	7721.8	7682.0	7501.3	7150.7	6707.1	6080.2	5413.5	4744.1	4683.0	3984.4
10°	8970.2	8988.8	8917.1	8797.6	8513.4	8061.8	7288.8	6377.7	5424.1	5347.1	4345.7
12.5°	9769.8	9767.1	9780.4	9777.8	9626.3	9283.7	8470.9	7421.6	6173.2	6021.8	4760.0
15°	10290.4	10298.4	10338.2	10476.4	10492.3	10279.8	9602.4	8420.4	7041.8	6853.2	5209.0
17.5°	10816.4	10872.1	10935.9	11066.0	11182.9	11097.9	10619.8	9461.7	7828.0	7687.3	5689.7
20°	11685.0	11762.0	11724.8	11804.5	11865.6	11873.6	11504.3	10423.2	8781.7	8545.2	6239.6
22.5°	13074.2	13071.5	12975.9	12832.5	12712.9	12707.6	12372.9	11411.4	9647.6	9419.2	6792.1
25°	14830.0	14838.0	14652.0	14243.0	13945.5	13581.5	13196.4	12277.3	10574.6	10293.1	7373.8
27.5°	16843.5	16793.0	16511.4	15948.3	15358.6	14737.0	14181.9	13284.0	11557.5	11323.7	8040.5
30°	18652.4	18633.8	18304.4	17616.4	16840.8	16216.6	15411.7	14545.8	12829.8	12542.9	8787.0
32.5°	20336.5	20363.0	19906.1	19194.3	18445.2	17725.3	16875.3	15751.7	14078.3	13671.9	9599.8
35°	21651.3	21677.9	21205.1	20612.7	19842.4	19244.7	18434.6	17037.4	15310.8	14968.1	10534.8
37.5°	22352.6	22387.1	22113.5	21667.2	21186.5	20886.3	20131.9	18692.2	16808.9	16601.7	11639.8
40°	22485.4	22525.2	22405.7	22286.2	22259.6	22474.8	22254.3	20641.9	18886.1	18562.1	13286.7
42.5°	22086.9	22140.1	22193.2	22458.8	23000.7	23789.6	24557.3	23287.6	21561.0	21125.4	15300.2
45°	21040.4	21035.1	21244.9	21932.9	23146.8	24830.9	26963.9	26600.0	25205.4	24687.4	18145.0
47.5°	19250.0	19223.5	19677.7	20657.9	22549.1	25022.1	28926.9	30621.6	29856.6	29378.4	21202.4
50°	16522.0	16652.2	17366.7	18734.7	21064.3	24443.1	29532.5	33259.2	33673.6	33166.3	23672.7
52.5°	13326.5	13321.2	14442.2	16298.9	18864.9	23168.0	29110.1	33737.4	34914.1	34526.3	24889.3
55°	9862.8	9931.8	11097.9	12970.6	16009.4	20841.1	27731.5	33246.0	35386.9	35113.3	25691.5
57°	7336.6	7458.8	8393.8	10375.4	13523.1	18538.2	25896.0	32366.7	35572.9	35424.1	26358.2
57.5°	6847.9	6853.2	7764.3	9565.3	12795.3	17653.6	25370.1	32000.2	35567.5	35485.2	26467.1
60°	4215.5	4348.3	4977.9	6465.4	9366.0	13778.1	21845.2	29893.7	35291.3	35410.8	26932.0
62.5°	2523.5	2579.2	2988.3	3896.8	6037.7	10056.7	17876.7	27197.6	34571.4	34935.4	26900.1
65°	1623.0	1636.3	1822.2	2358.8	3774.6	6797.4	13775.5	23635.6	32709.4	33378.8	25848.2
67.5°	1253.8	1275.0	1349.4	1548.6	2188.8	4234.1	9743.2	19834.4	29697.2	30560.5	23298.2
70°	1113.0	1123.6	1150.2	1213.9	1447.7	2390.6	6061.6	15494.1	24626.3	24870.7	18232.7
72.5°	908.4	937.7	1020.0	1041.3	1147.5	1492.8	3373.5	10399.3	16545.9	16607.0	10200.1
75°	703.9	709.2	831.4	892.5	966.9	1028.0	1506.1	5243.5	7947.6	7522.6	3931.3
77.5°	525.9	549.8	605.6	682.7	788.9	735.8	674.7	1976.3	2467.7	2422.5	1142.2
80°	337.3	350.6	422.3	512.7	613.6	480.8	379.8	579.1	541.9	557.8	273.6
82.5°	170.0	172.7	270.9	417.0	390.5	241.7	239.1	236.4	201.9	199.2	127.5
85°	18.6	39.8	175.3	239.1	175.3	79.7	111.6	108.9	106.3	108.9	74.4
87.5°	2.7	2.7	29.2	34.5	23.9	26.6	31.9	34.5	42.5	39.8	31.9
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°	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1	3222.1
2.5°	3317.7	3211.4	3014.9	2826.3	2685.5	2595.2	2478.3	2435.8	2374.7	2366.7	2337.5
5°	3461.1	3259.3	2916.6	2645.7	2427.8	2263.1	2119.7	2000.2	1904.6	1883.3	1893.9
7.5°	3665.7	3365.5	2887.4	2518.2	2215.3	1933.8	1705.3	1564.5	1463.6	1426.4	1431.7
10°	3896.8	3506.3	2882.1	2382.7	1920.5	1575.2	1325.5	1200.6	1142.2	1120.9	1097.0
12.5°	4170.4	3668.3	2868.8	2172.8	1596.4	1256.4	1078.4	1004.1	948.3	932.4	932.4
15°	4478.5	3841.0	2805.0	1912.5	1296.3	1038.6	919.1	860.6	842.0	826.1	826.1
17.5°	4799.9	4011.0	2672.2	1591.1	1075.8	889.9	815.5	780.9	754.4	735.8	735.8
20°	5166.5	4178.3	2459.7	1306.9	908.4	794.2	735.8	695.9	674.7	658.8	653.4
22.5°	5514.4	4313.8	2188.8	1073.1	791.6	714.5	661.4	618.9	597.7	589.7	589.7
25°	5875.7	4396.1	1862.0	887.2	722.5	648.1	589.7	555.2	536.6	531.3	528.6
27.5°	6226.3	4444.0	1575.2	775.6	658.8	587.0	531.3	504.7	486.1	480.8	483.4
30°	6651.3	4451.9	1296.3	695.9	603.0	528.6	478.1	454.2	443.6	438.3	435.6
32.5°	7081.6	4441.3	1089.1	648.1	549.8	478.1	435.6	417.0	409.1	401.1	401.1
35°	7565.1	4385.5	927.0	600.3	499.4	435.6	398.4	382.5	371.9	363.9	361.3
37.5°	8165.4	4356.3	834.1	547.2	454.2	395.8	361.3	345.3	337.3	326.7	324.1
40°	9111.0	4486.5	804.9	499.4	409.1	358.6	326.7	308.1	297.5	286.9	284.2
42.5°	10290.4	4714.9	757.0	451.6	369.2	324.1	292.2	270.9	252.3	239.1	233.8
45°	11817.8	5015.1	682.7	401.1	334.7	286.9	257.7	231.1	207.2	196.6	193.9
47.5°	13419.5	5304.6	616.3	361.3	297.5	255.0	223.1	193.9	172.7	164.7	162.0
50°	14402.3	5363.0	573.8	316.1	260.3	220.5	188.6	162.0	148.8	140.8	140.8
52.5°	14851.2	5270.1	515.3	276.3	225.8	193.9	162.0	140.8	132.8	127.5	124.8
55°	15164.7	5126.6	438.3	239.1	193.9	164.7	143.4	127.5	116.9	111.6	108.9
57°	15348.0	4932.7	379.8	209.8	167.3	143.4	127.5	114.2	103.6	93.0	93.0
57.5°	15355.9	4858.3	363.9	207.2	159.4	138.1	124.8	111.6	98.3	87.7	85.0
60°	15119.5	4348.3	292.2	175.3	127.5	116.9	103.6	87.7	69.1	58.4	55.8
62.5°	14359.8	3700.2	241.7	148.8	103.6	90.3	74.4	66.4	47.8	34.5	34.5
65°	13209.7	3001.6	207.2	119.5	85.0	66.4	50.5	47.8	29.2	15.9	13.3
67.5°	11546.8	2337.5	175.3	98.3	71.7	47.8	34.5	31.9	15.9	5.3	0.0
70°	8797.6	1593.8	146.1	79.7	53.1	34.5	23.9	18.6	10.6	2.7	0.0
72.5°	5070.8	876.6	122.2	61.1	39.8	26.6	18.6	10.6	10.6	0.0	0.0
75°	1811.6	377.2	93.0	45.2	31.9	21.3	13.3	5.3	8.0	2.7	0.0
77.5°	576.4	201.9	61.1	34.5	26.6	15.9	10.6	5.3	5.3	2.7	0.0
80°	170.0	106.3	37.2	29.2	18.6	13.3	8.0	2.7	5.3	2.7	0.0
82.5°	93.0	53.1	29.2	21.3	18.6	10.6	8.0	2.7	2.7	2.7	0.0
85°	47.8	31.9	23.9	21.3	18.6	10.6	8.0	2.7	0.0	2.7	2.7
87.5°	26.6	23.9	23.9	21.3	18.6	13.3	8.0	2.7	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)