

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: P455068

Luminaire Tested: **GALN-SA6B-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23095 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

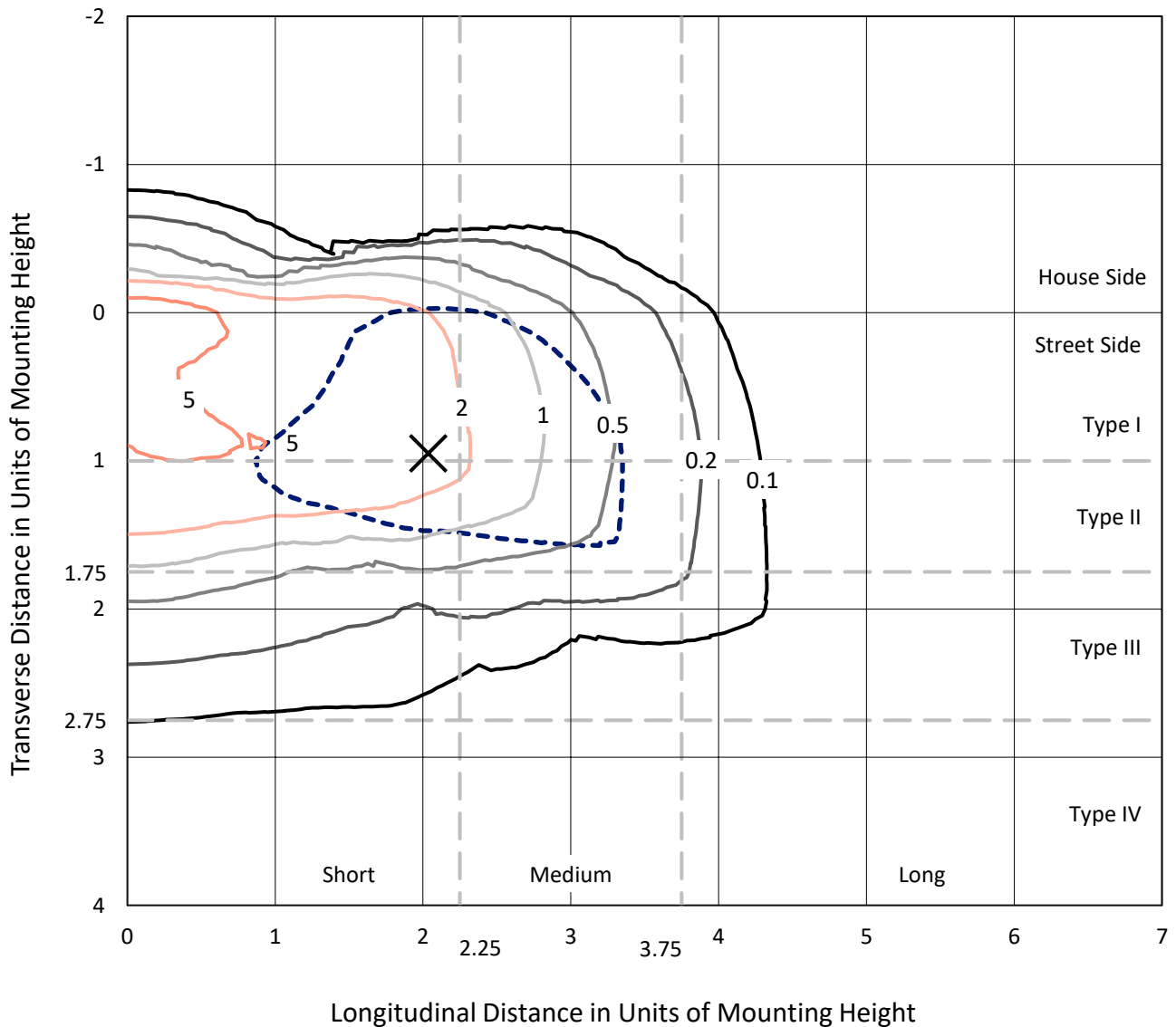
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455068
 CATALOG NUMBER: GALN-SA6B-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

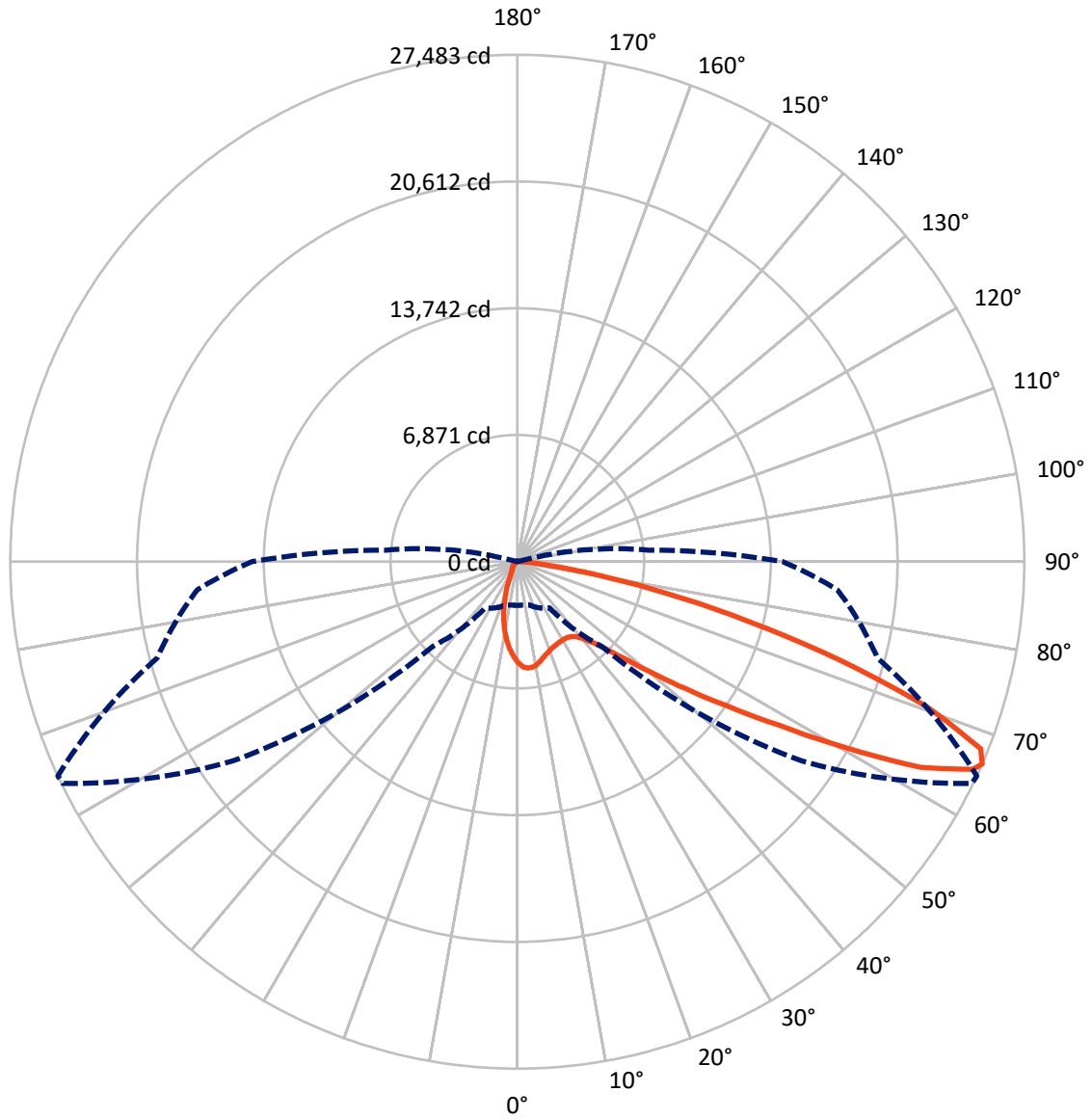
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

REPORT NUMBER: P455068
CATALOG NUMBER: GALN-SA6B-727-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P455068

CATALOG NUMBER: GALN-SA6B-727-U-SL2-HSS

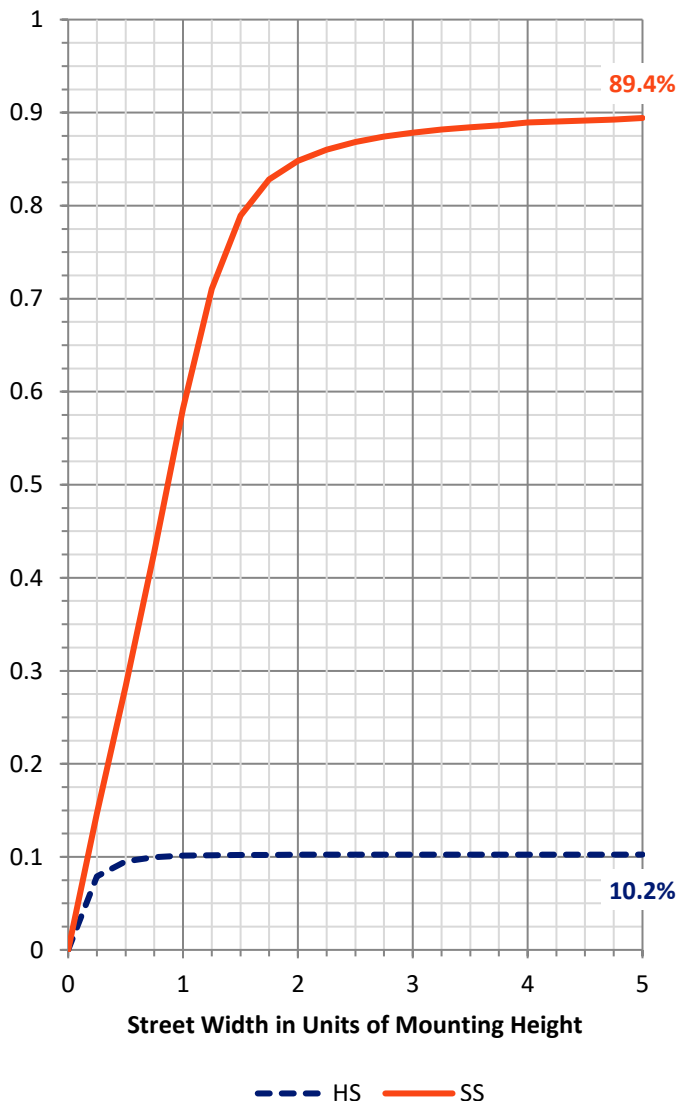
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2388.3	0.0	2388.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	20706.7	0.0	20706.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	23095.0	0.0	23095.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.9	1.9
10°-20°	975.9	4.2
20°-30°	1398.0	6.1
30°-40°	2041.9	8.8
40°-50°	3423.9	14.8
50°-60°	5714.0	24.7
60°-70°	6065.3	26.3
70°-80°	2746.9	11.9
80°-90°	281.1	1.2
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°	23095.0	100.0
0°-180°	23095.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455068

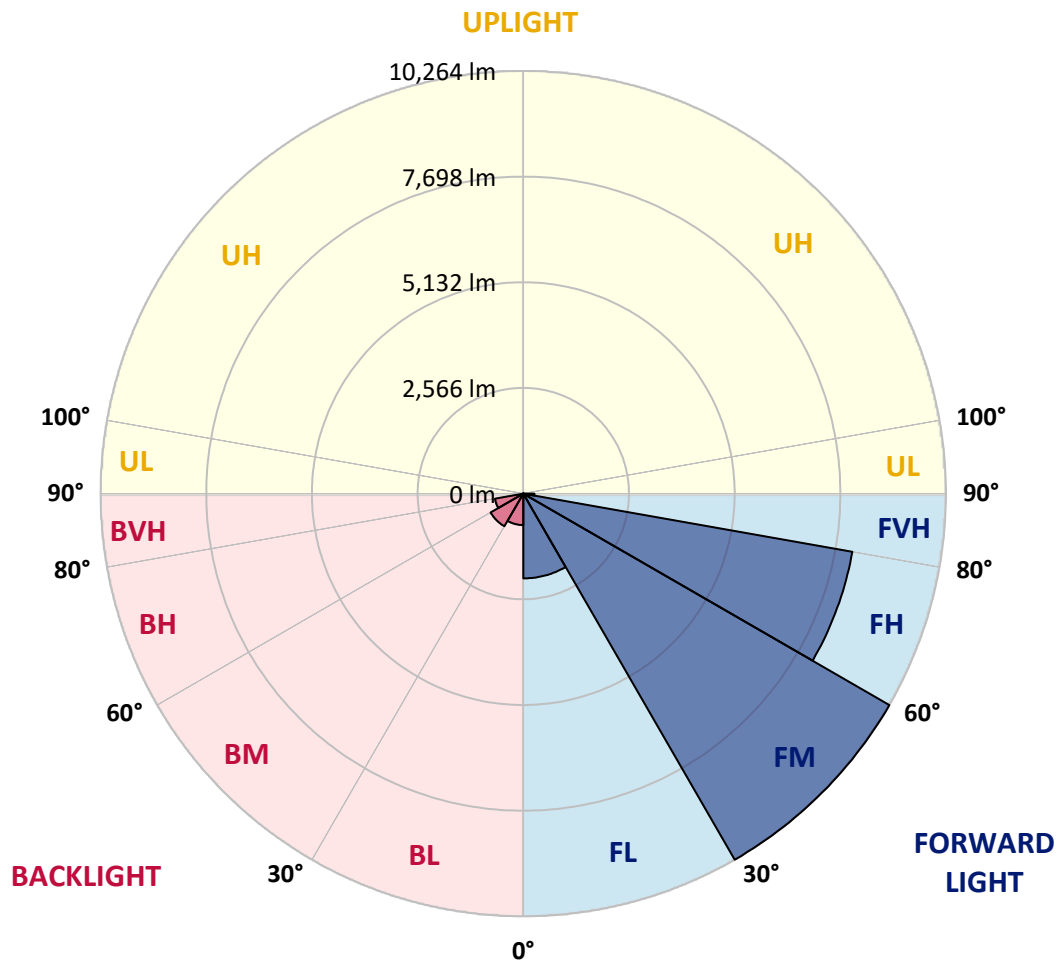
CATALOG NUMBER: GALN-SA6B-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2057.8	8.9			
FM (30°-60°)	10263.9	44.4			
FH (60°-80°)	8112.7	35.1			G4/12000
FVH (80°-90°)	272.1	1.2			G3/500
BL (0°-30°)	764.0	3.3	B2/1000		
BM (30°-60°)	916.0	4.0	B1/1000		
BH (60°-80°)	699.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	8.9	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





REPORT NUMBER: P455068

CATALOG NUMBER: GALN-SA6B-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7
2.5°	5771.5	5777.7	5785.5	5796.4	5804.2	5780.8	5748.1	5710.7	5702.9	5623.3	5526.6
5°	5462.6	5472.0	5540.6	5578.1	5662.3	5738.7	5787.1	5793.3	5790.2	5715.3	5560.9
7.5°	5022.8	5049.3	5116.3	5181.9	5339.4	5484.5	5656.1	5776.2	5784.0	5763.7	5571.8
10°	4665.5	4682.7	4717.0	4846.5	4977.5	5199.0	5439.2	5665.4	5684.1	5765.3	5562.5
12.5°	4386.3	4411.3	4453.4	4553.2	4710.8	4919.8	5192.8	5497.0	5536.0	5735.6	5536.0
15°	4191.3	4203.8	4245.9	4344.2	4497.1	4690.5	4966.6	5320.7	5355.0	5696.6	5531.3
17.5°	4099.3	4113.4	4143.0	4221.0	4347.3	4526.7	4796.6	5178.7	5222.4	5671.7	5548.4
20°	4124.3	4136.8	4138.3	4178.9	4264.7	4416.0	4671.8	5046.2	5102.3	5656.1	5576.5
22.5°	4266.2	4267.8	4249.1	4230.3	4260.0	4369.2	4595.4	4961.9	5019.6	5652.9	5609.3
25°	4478.4	4483.0	4451.8	4386.3	4327.1	4383.2	4578.2	4907.3	4958.8	5645.1	5629.5
27.5°	4771.6	4770.1	4760.7	4651.5	4483.0	4445.6	4592.2	4877.7	4921.4	5623.3	5637.3
30°	5181.9	5169.4	5149.1	5025.9	4768.5	4596.9	4651.5	4859.0	4899.5	5592.1	5617.1
32.5°	5585.9	5632.7	5629.5	5512.6	5191.2	4866.8	4774.7	4883.9	4913.6	5571.8	5587.4
35°	6056.9	6055.4	6175.5	6131.8	5755.9	5211.5	4985.3	4966.6	4990.0	5585.9	5573.4
37.5°	6493.7	6534.3	6721.4	6766.7	6423.5	5698.2	5283.3	5144.4	5152.2	5681.0	5607.7
40°	7038.1	7116.1	7395.3	7546.6	7244.0	6420.4	5723.1	5470.4	5472.0	5915.0	5737.2
42.5°	7740.0	7863.3	8123.8	8376.5	8214.2	7275.2	6383.0	5986.8	5983.6	6326.8	6033.5
45°	8593.3	8679.1	8975.4	9376.3	9273.4	8468.5	7343.8	6787.0	6746.4	7002.2	6559.2
47.5°	9329.5	9446.5	9747.6	10204.6	10672.6	9925.4	8491.9	7886.7	7860.1	8077.0	7460.8
50°	9650.9	9753.8	10070.5	10711.6	11845.6	11837.8	10201.5	9491.8	9446.5	9563.5	8855.3
52.5°	9298.3	9395.1	9714.8	10513.5	12397.8	14168.2	12678.6	11505.5	11450.9	11301.2	10521.3
55°	8091.0	8170.6	8643.2	9560.4	12185.6	15721.9	16091.5	13993.5	13781.4	13199.6	12407.1
57.5°	6442.2	6401.7	6694.9	7760.3	10940.9	16242.8	19595.0	17093.0	16713.9	14840.5	14002.9
60°	4464.3	4589.1	4707.7	5409.6	8226.7	15339.7	21774.1	20989.5	20490.4	16455.0	15531.5
62.5°	3282.0	3364.6	3442.6	3767.1	5172.5	12248.0	22159.4	24992.1	24549.1	18169.3	16990.0
65°	2595.6	2601.9	2633.0	2952.8	3408.3	7964.7	20307.8	27249.2	27135.4	19819.6	17581.2
66°	2364.8	2366.3	2414.7	2757.8	3058.9	6485.9	18824.4	27420.8	27483.2	20215.8	17408.1
67.5°	2066.8	2060.6	2130.8	2478.6	2785.9	4676.5	16169.5	26725.1	27094.8	20520.0	16785.7
70°	1602.0	1594.2	1680.0	2079.3	2566.0	3119.7	10747.5	22947.1	23543.0	19897.6	14851.4
72.5°	1066.9	1073.2	1219.8	1641.0	2449.0	2746.9	6465.6	17456.4	18298.7	16431.6	11683.4
75°	622.4	633.3	800.2	1219.8	2126.1	2619.0	3659.4	12447.7	12985.9	11346.4	7278.3
77.5°	326.0	330.7	447.7	804.9	1630.1	2431.8	2438.1	7952.2	8204.9	5514.1	2881.1
80°	173.1	168.5	240.2	485.1	1121.5	2135.5	1977.9	4210.1	4377.0	1637.9	728.5
82.5°	65.5	71.8	127.9	318.2	662.9	1533.3	1703.4	1860.9	1803.2	360.3	305.7
85°	12.5	15.6	54.6	188.7	333.8	641.1	1255.7	912.5	845.4	135.7	176.3
87.5°	1.6	3.1	15.6	45.2	48.4	216.8	371.2	252.7	218.4	49.9	73.3
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°	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7	5476.7
2.5°	5479.8	5437.7	5297.3	5158.5	5016.5	4888.6	4801.3	4659.3	4623.4	4572.0	4542.3
5°	5468.9	5370.6	5100.7	4805.9	4531.4	4235.0	4008.8	3790.5	3673.5	3614.2	3592.4
7.5°	5437.7	5281.7	4860.5	4398.8	3958.9	3515.9	3130.6	2837.4	2648.6	2519.2	2431.8
10°	5375.3	5160.0	4581.3	3946.5	3282.0	2697.0	2208.8	1837.5	1550.5	1460.0	1463.2
12.5°	5311.3	5024.3	4269.3	3444.2	2620.6	1882.8	1364.9	1071.6	934.4	889.1	879.8
15°	5252.1	4894.8	3963.6	2957.5	1951.4	1219.8	879.8	776.8	739.4	731.6	730.0
17.5°	5220.9	4774.7	3637.6	2400.6	1361.8	828.3	705.1	677.0	666.1	658.3	655.1
20°	5194.3	4670.2	3325.6	1879.6	931.2	678.5	631.7	605.2	586.5	578.7	574.0
22.5°	5175.6	4562.6	3002.7	1455.4	712.9	602.1	560.0	525.7	499.2	489.8	483.6
25°	5147.5	4444.0	2676.7	1063.8	600.5	535.0	486.7	446.1	411.8	394.6	391.5
27.5°	5107.0	4309.9	2319.5	787.7	536.6	475.8	416.5	366.6	332.3	313.5	315.1
30°	5041.5	4169.5	1962.3	625.5	485.1	414.9	351.0	302.6	269.9	255.8	254.3
32.5°	4963.5	3999.5	1634.7	536.6	438.3	360.3	293.3	251.1	226.2	215.3	213.7
35°	4890.2	3827.9	1300.9	482.0	390.0	310.4	246.5	210.6	191.9	182.5	184.1
37.5°	4849.6	3675.0	1013.9	438.3	351.0	266.7	212.1	180.9	163.8	156.0	154.4
40°	4876.1	3550.2	806.4	399.3	307.3	229.3	182.5	156.0	138.8	127.9	127.9
42.5°	5000.9	3495.7	650.5	361.9	266.7	198.1	159.1	134.1	115.4	104.5	106.1
45°	5381.5	3553.4	544.4	327.6	229.3	171.6	137.3	110.8	93.6	85.8	84.2
47.5°	6013.3	3770.2	471.1	291.7	196.5	146.6	115.4	92.0	74.9	68.6	67.1
50°	7117.7	4217.9	416.5	255.8	166.9	124.8	95.2	73.3	59.3	53.0	53.0
52.5°	8637.0	5194.3	377.5	215.3	140.4	106.1	78.0	59.3	46.8	42.1	40.6
55°	10224.9	6223.9	357.2	180.9	117.0	87.4	62.4	46.8	35.9	31.2	29.6
57.5°	11752.0	7031.9	333.8	146.6	93.6	67.1	48.4	35.9	25.0	21.8	20.3
60°	13216.7	7685.4	283.9	117.0	73.3	48.4	35.9	25.0	17.2	14.0	14.0
62.5°	14527.0	8066.0	223.1	93.6	56.2	34.3	23.4	18.7	12.5	9.4	9.4
65°	14679.9	7571.6	168.5	71.8	40.6	21.8	14.0	14.0	9.4	6.2	6.2
66°	14372.6	7152.0	148.2	65.5	35.9	18.7	12.5	10.9	7.8	4.7	4.7
67.5°	13686.2	6436.0	127.9	56.2	29.6	14.0	9.4	9.4	6.2	3.1	3.1
70°	11825.3	5256.7	101.4	42.1	21.8	10.9	6.2	6.2	4.7	3.1	3.1
72.5°	9012.9	3924.6	82.7	31.2	15.6	7.8	4.7	4.7	4.7	3.1	3.1
75°	5436.1	2113.6	64.0	23.4	14.0	6.2	3.1	4.7	6.2	4.7	3.1
77.5°	2002.9	719.1	49.9	18.7	10.9	6.2	3.1	3.1	6.2	4.7	4.7
80°	491.4	187.2	35.9	15.6	10.9	6.2	3.1	3.1	6.2	6.2	6.2
82.5°	227.7	79.6	25.0	14.0	10.9	6.2	3.1	3.1	4.7	6.2	6.2
85°	131.0	37.4	20.3	15.6	10.9	6.2	3.1	3.1	4.7	6.2	6.2
87.5°	53.0	18.7	18.7	15.6	12.5	7.8	3.1	3.1	3.1	4.7	4.7
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)