

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: P454838

Luminaire Tested: **GALN-SA6A-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18760 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

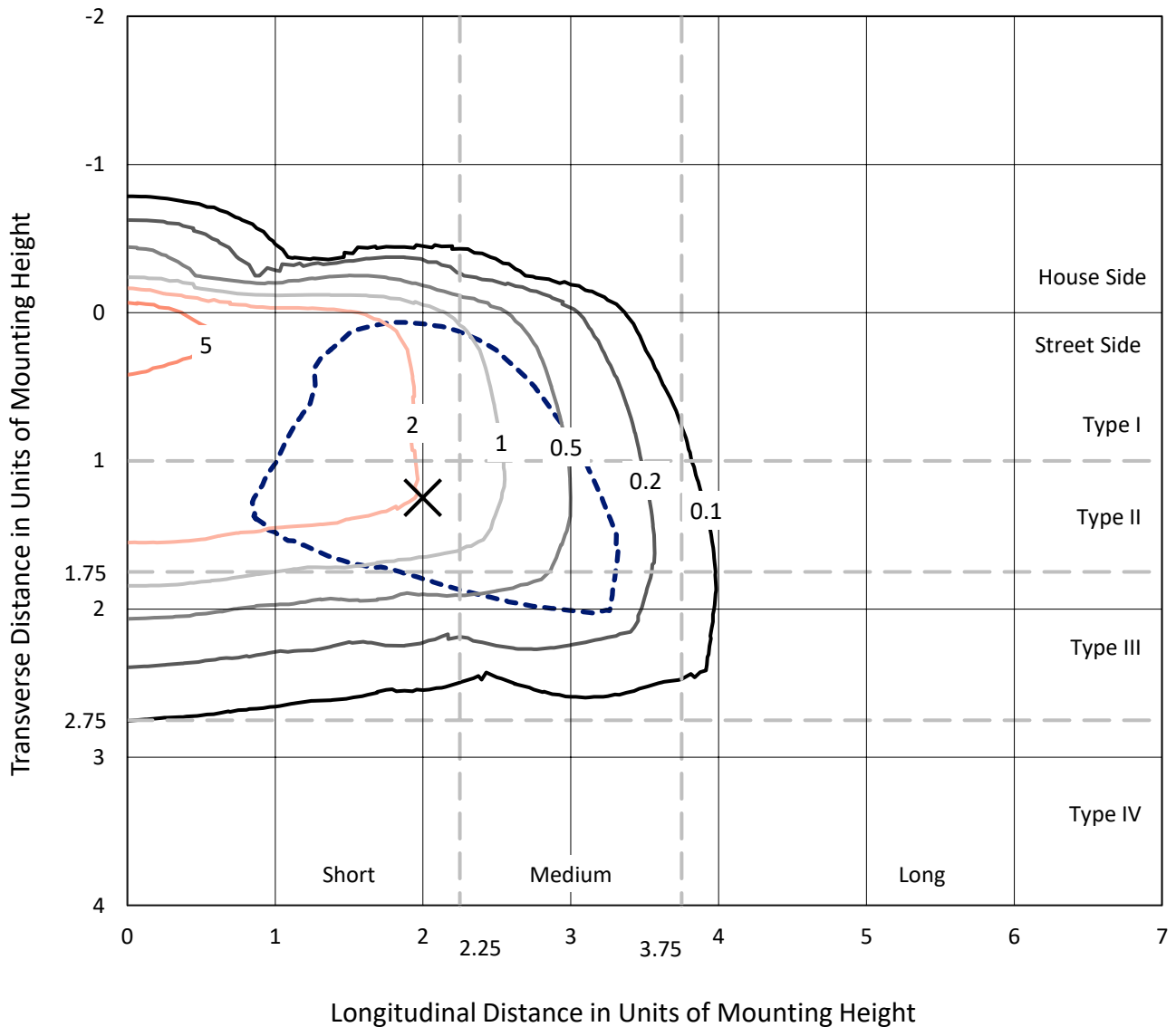
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

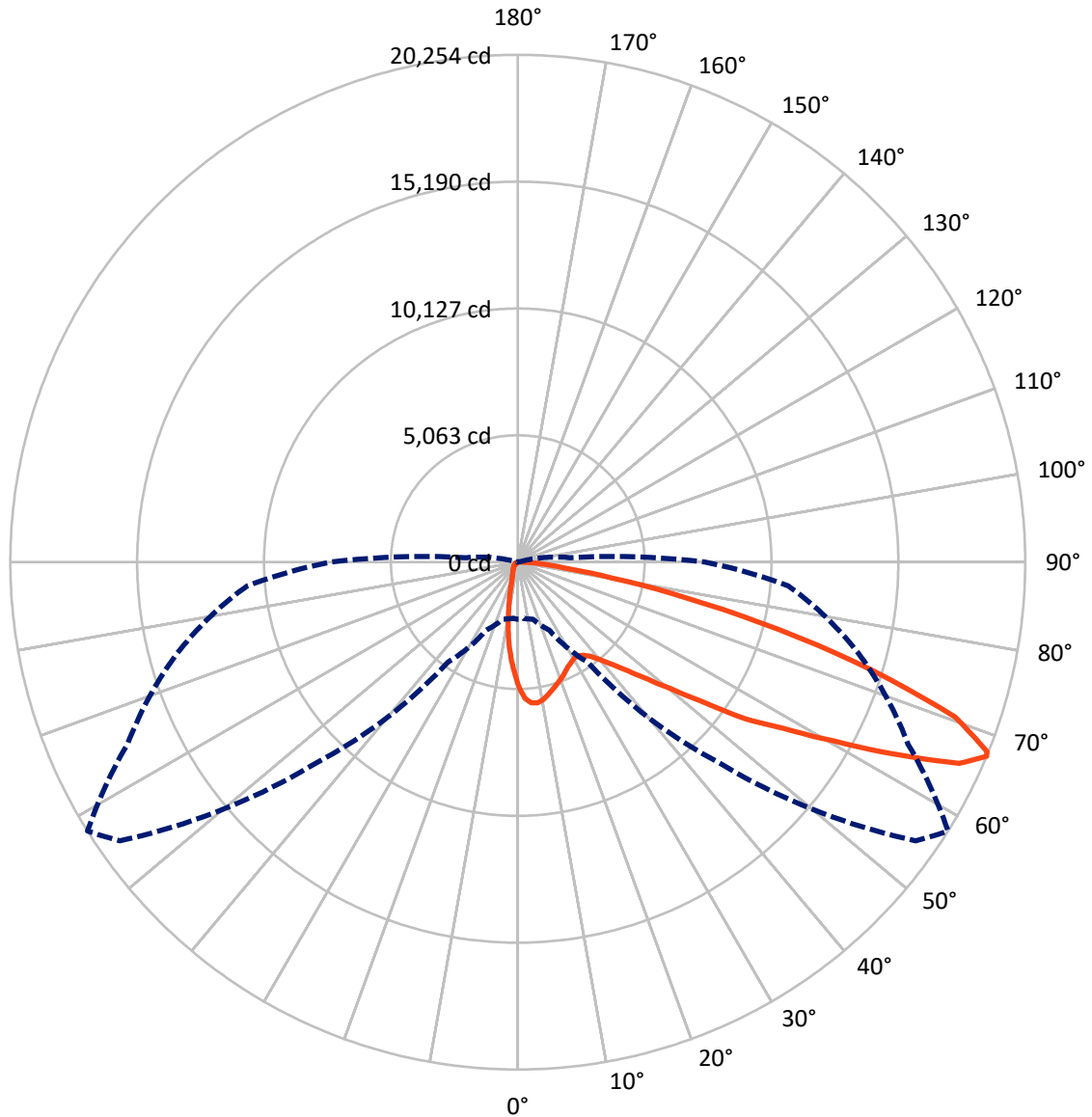
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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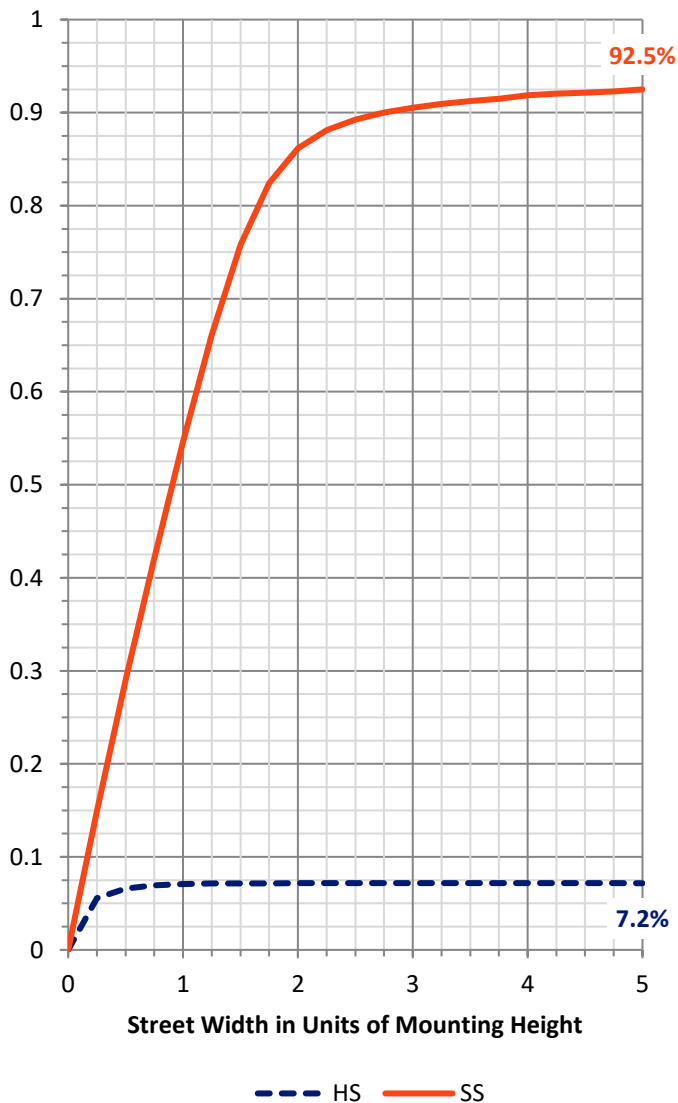
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1353.8	0.0	1353.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17406.2	0.0	17406.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	18760.0	0.0	18760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.6	2.2
10°-20°	871.6	4.6
20°-30°	1181.1	6.3
30°-40°	1638.1	8.7
40°-50°	2612.5	13.9
50°-60°	4515.9	24.1
60°-70°	5158.6	27.5
70°-80°	2150.7	11.5
80°-90°	228.0	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°	18760.0	100.0
0°-180°	18760.0	100.0

Coefficient of Utilization



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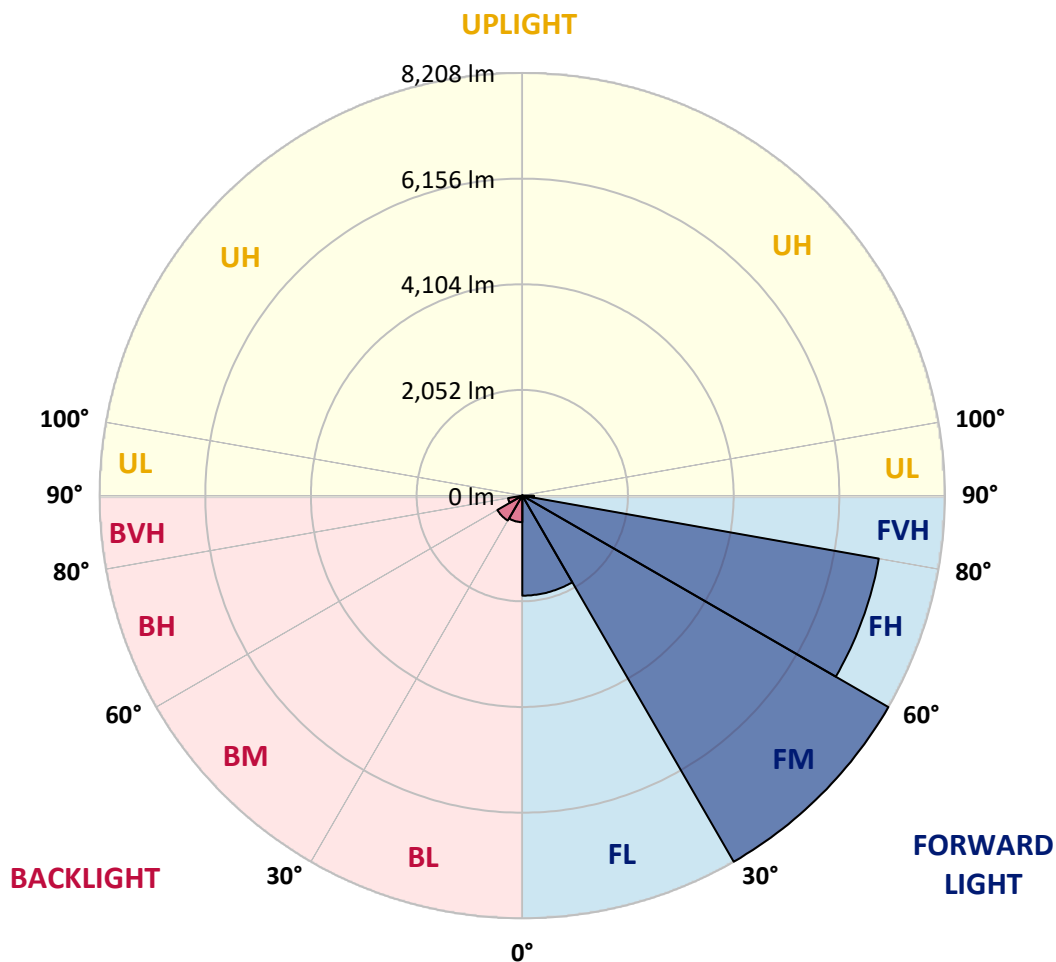
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.1	10.4			
FM (30°-60°)	8208.3	43.8			
FH (60°-80°)	7029.4	37.5			G3/7500
FVH (80°-90°)	226.4	1.2			G3/500
BL (0°-30°)	514.1	2.7	B2/1000		
BM (30°-60°)	558.2	3.0	B1/1000		
BH (60°-80°)	279.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1
2.5°	5771.7	5780.4	5747.8	5721.5	5653.8	5581.1	5484.6	5433.2	5345.4	5193.7	5025.8
5°	5907.0	5918.3	5913.3	5907.0	5880.7	5810.5	5687.7	5642.5	5513.4	5266.5	4963.1
7.5°	5606.2	5647.6	5652.6	5701.5	5747.8	5754.1	5707.7	5673.9	5554.8	5265.2	4851.5
10°	5207.5	5235.1	5275.2	5331.6	5443.2	5536.0	5581.1	5576.1	5507.1	5226.3	4721.1
12.5°	4805.1	4820.2	4881.6	4978.1	5114.8	5272.7	5393.1	5416.9	5418.1	5180.0	4612.1
15°	4459.1	4452.9	4500.5	4612.1	4803.9	5001.9	5217.6	5255.2	5315.3	5134.8	4510.5
17.5°	4163.3	4195.9	4203.4	4326.2	4503.0	4760.0	5034.5	5101.0	5221.3	5096.0	4426.5
20°	3980.2	3997.8	4014.1	4083.0	4242.2	4513.0	4862.8	4954.3	5133.6	5060.9	4332.5
22.5°	3926.3	3937.6	3923.8	3945.1	4058.0	4298.7	4676.0	4797.6	5049.6	5028.3	4256.0
25°	3967.7	3979.0	3946.4	3921.3	3960.2	4124.4	4495.5	4643.4	4981.9	5022.0	4198.4
27.5°	4068.0	4089.3	4044.2	3999.0	3976.5	4030.4	4353.8	4525.6	4935.5	5052.1	4172.0
30°	4224.7	4237.2	4203.4	4148.2	4096.8	4042.9	4279.9	4444.1	4923.0	5122.3	4169.5
32.5°	4395.2	4421.5	4402.7	4366.4	4299.9	4172.0	4301.2	4446.6	4953.0	5223.8	4200.9
35°	4605.8	4635.9	4653.4	4645.9	4560.7	4401.5	4436.6	4559.4	5033.3	5410.6	4286.1
37.5°	4812.6	4839.0	4938.0	4971.9	4896.6	4746.2	4699.8	4781.3	5210.0	5655.1	4440.3
40°	5049.6	5084.7	5223.8	5353.0	5316.6	5158.6	5073.4	5141.1	5480.8	6023.6	4732.4
42.5°	5276.5	5339.2	5551.0	5779.2	5813.0	5636.3	5579.9	5602.4	5882.0	6553.9	5139.8
45°	5598.7	5657.6	5930.9	6240.5	6399.7	6261.8	6204.2	6200.4	6432.3	7299.8	5800.5
47.5°	6063.8	6116.4	6438.6	6744.5	7027.8	7046.6	6937.5	6975.1	7124.3	8172.3	6610.3
50°	6634.1	6758.3	6970.1	7288.5	7667.1	7973.0	8006.9	7956.7	8084.6	9182.8	7583.1
52.5°	7462.8	7510.4	7704.7	7966.7	8410.5	8929.5	9331.9	9263.0	9222.9	10145.5	8566.0
55°	8080.8	8144.8	8446.9	8806.7	9457.3	10141.8	11014.3	11038.1	10531.6	11070.7	9527.5
57.5°	7894.0	7991.8	8449.4	9172.7	10603.1	11854.2	12503.6	12519.9	11742.6	11969.5	10613.1
60°	6935.0	6981.4	7637.0	8602.3	10700.9	13709.6	14615.9	14484.3	12974.9	12974.9	11572.2
62.5°	4917.9	4990.7	5522.2	6942.5	9664.1	14353.9	17145.7	16873.7	14672.3	13936.5	12143.8
65°	3142.8	3072.6	3424.9	4382.6	7199.5	13402.4	19348.3	19364.6	16269.5	14321.3	11831.6
67°	2276.6	2249.0	2350.5	2996.1	4881.6	11266.3	19394.7	20253.5	17187.1	14078.1	10833.8
67.5°	2082.3	2103.6	2177.5	2702.8	4435.3	10252.1	19184.1	20200.8	17394.0	13931.5	10472.7
70°	1578.3	1542.0	1622.2	1911.8	2658.9	6467.4	16502.6	18527.2	17137.0	12476.0	8367.9
72.5°	1160.9	1157.1	1268.7	1563.3	2047.2	3444.9	12388.3	14855.4	14000.4	9499.9	5269.0
75°	783.5	818.6	996.6	1306.3	1855.4	2233.9	8445.6	10777.4	9719.3	5394.3	2153.7
77.5°	446.3	448.8	641.9	1049.3	1666.1	1797.7	5004.4	6866.1	5144.8	1793.9	639.3
80°	193.1	211.9	318.4	762.2	1381.5	1592.1	2869.5	3773.4	2081.0	379.8	206.8
82.5°	71.5	84.0	140.4	468.9	1007.9	1311.3	1733.8	1801.4	705.8	134.1	129.1
85°	0.0	2.5	51.4	219.4	525.3	585.4	1158.3	1068.1	312.2	63.9	84.0
87.5°	0.0	0.0	0.0	22.6	68.9	218.1	359.8	401.2	75.2	22.6	20.1
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°	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1	4973.1
2.5°	4935.5	4854.0	4649.7	4445.3	4293.6	4167.0	3976.5	3872.4	3817.3	3735.8	3740.8
5°	4811.4	4645.9	4286.1	3913.8	3612.9	3319.6	2968.6	2826.9	2707.8	2640.1	2595.0
7.5°	4627.1	4382.6	3849.9	3353.4	2890.8	2378.1	1993.3	1736.3	1563.3	1499.3	1437.9
10°	4425.3	4100.6	3407.3	2719.1	2077.2	1548.2	1222.3	986.6	902.6	824.9	832.4
12.5°	4238.5	3843.6	3001.2	2146.2	1455.5	984.1	767.2	670.7	643.1	634.3	634.3
15°	4085.5	3597.9	2564.9	1613.4	997.9	707.0	614.3	587.9	577.9	575.4	575.4
17.5°	3922.6	3364.7	2171.3	1192.2	725.8	591.7	560.4	542.8	539.1	536.5	536.5
20°	3777.2	3130.3	1797.7	887.6	586.7	532.8	512.7	501.4	497.7	495.2	496.4
22.5°	3639.3	2922.2	1446.7	670.7	516.5	485.2	465.1	453.8	446.3	440.0	441.3
25°	3516.4	2721.6	1163.4	549.1	465.1	437.5	417.5	401.2	384.9	377.3	376.1
27.5°	3429.9	2546.1	906.4	470.1	418.7	388.6	363.5	343.5	322.2	310.9	308.4
30°	3358.4	2368.1	717.1	414.9	372.3	343.5	312.2	283.3	260.8	249.5	244.5
32.5°	3312.1	2198.8	565.4	369.8	333.5	298.4	263.3	234.4	209.4	198.1	195.6
35°	3304.5	2057.2	462.6	332.2	298.4	260.8	224.4	193.1	171.7	160.5	158.0
37.5°	3358.4	1948.1	387.4	302.1	269.5	228.2	188.0	159.2	140.4	131.6	130.4
40°	3502.6	1879.2	336.0	277.0	243.2	198.1	160.5	135.4	116.6	107.8	107.8
42.5°	3777.2	1881.7	302.1	253.2	216.9	169.2	136.6	112.8	96.5	89.0	86.5
45°	4205.9	1966.9	273.3	229.4	191.8	146.7	116.6	92.8	76.5	70.2	70.2
47.5°	4780.0	2136.2	248.2	205.6	169.2	125.4	99.0	75.2	61.4	55.2	55.2
50°	5531.0	2408.2	226.9	185.5	150.4	107.8	80.2	61.4	47.6	42.6	41.4
52.5°	6315.7	2744.2	201.8	168.0	129.1	91.5	65.2	47.6	36.4	32.6	31.3
55°	7182.0	3072.6	178.0	150.4	105.3	76.5	51.4	37.6	26.3	22.6	22.6
57.5°	8055.8	3394.8	149.2	125.4	82.7	56.4	40.1	27.6	17.6	13.8	13.8
60°	8795.4	3498.8	126.6	101.5	62.7	40.1	28.8	17.6	10.0	6.3	6.3
62.5°	8896.9	3147.8	106.6	77.7	45.1	27.6	15.0	10.0	3.8	2.5	2.5
65°	8345.3	2557.4	89.0	58.9	30.1	13.8	6.3	3.8	1.3	0.0	0.0
67°	7477.8	2073.5	72.7	43.9	21.3	8.8	3.8	1.3	0.0	0.0	0.0
67.5°	7255.9	1977.0	70.2	41.4	18.8	7.5	2.5	1.3	0.0	0.0	0.0
70°	5693.9	1480.5	50.1	25.1	11.3	5.0	0.0	0.0	0.0	0.0	0.0
72.5°	3539.0	837.4	36.4	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
75°	1337.6	293.3	25.1	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	416.2	111.6	15.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	140.4	42.6	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.5	17.6	6.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.9	7.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0	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)