

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: P530209

Luminaire Tested: **GALN-SA5B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530209
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13242 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 204
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

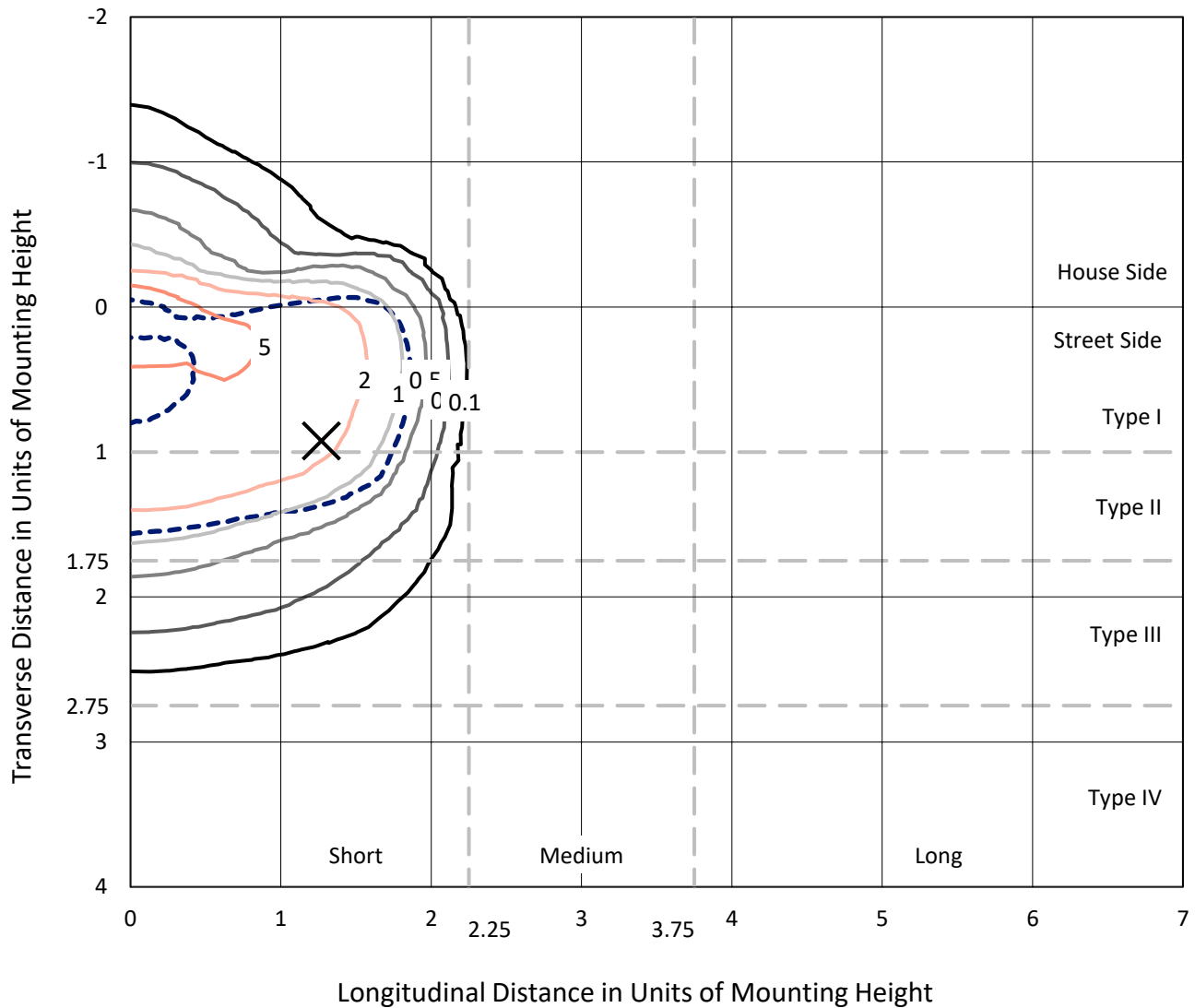


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

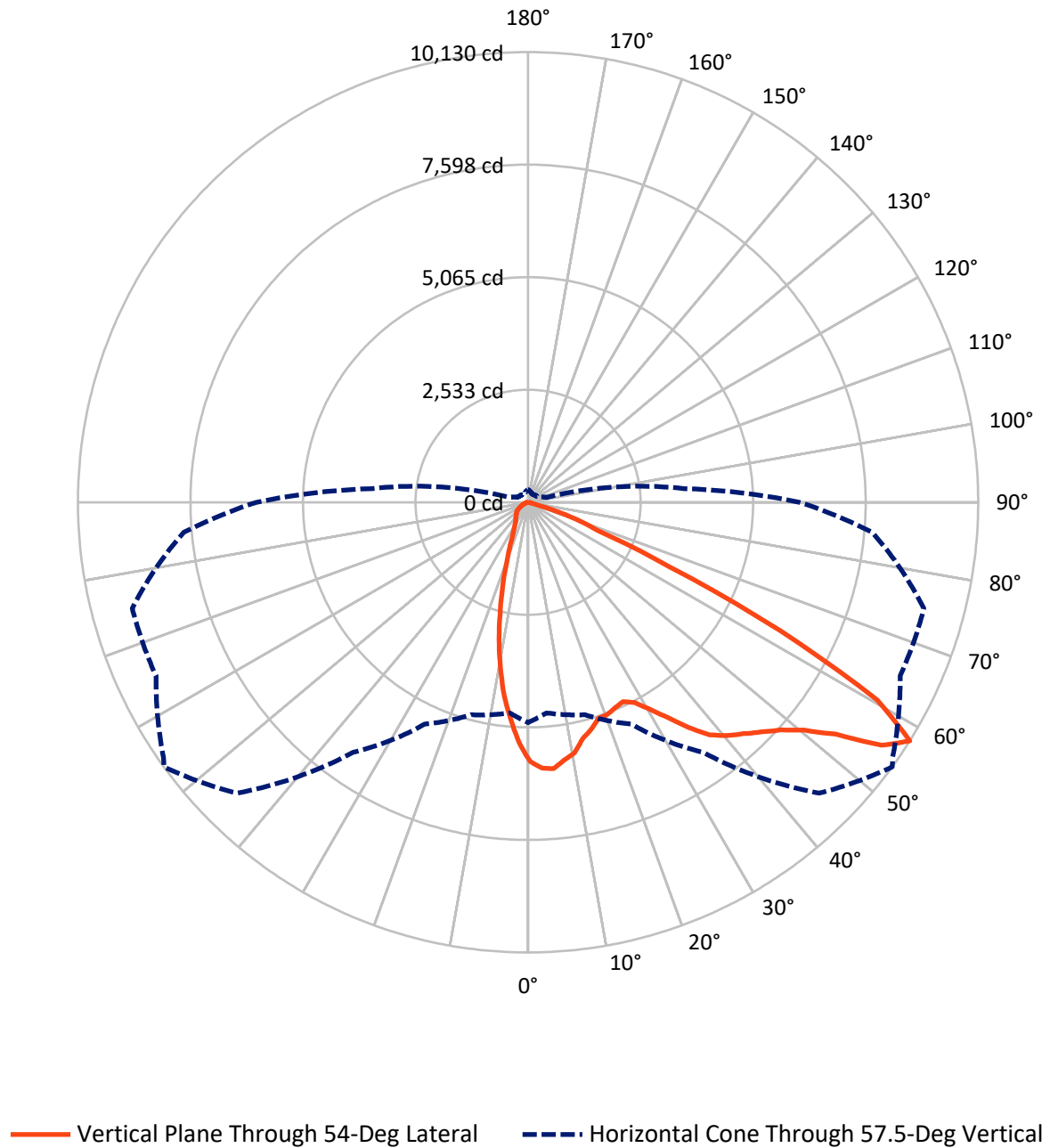


Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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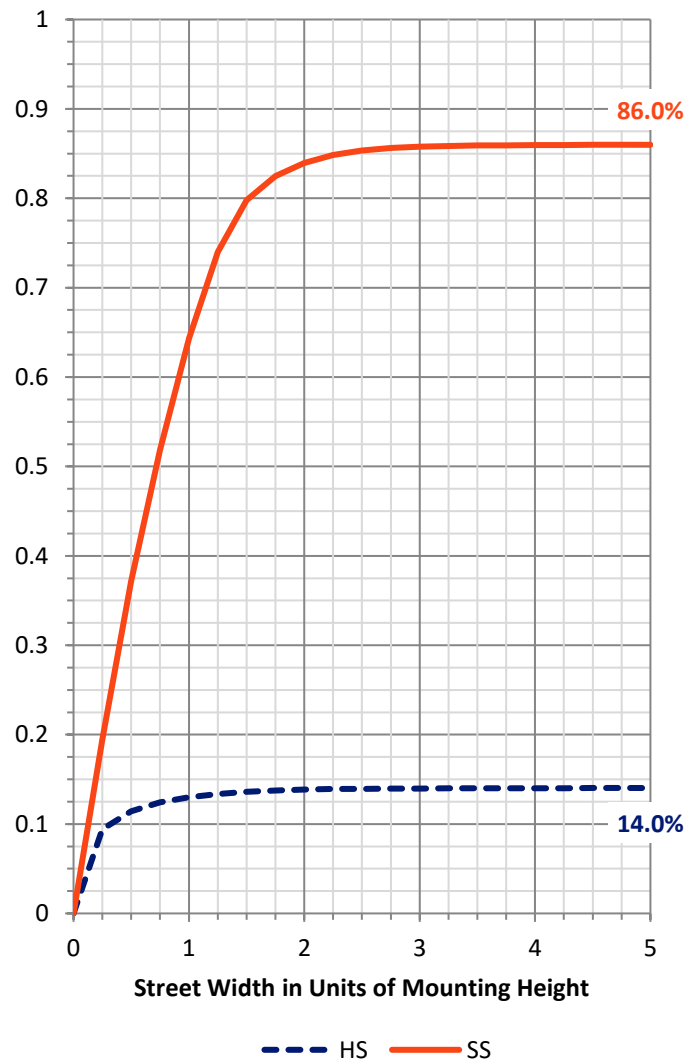
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1871.3	0.0	1871.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11370.7	0.0	11370.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	13242.0	0.0	13242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	3.7
10°-20°	1042.2	7.9
20°-30°	1381.1	10.4
30°-40°	2007.1	15.2
40°-50°	2976.3	22.5
50°-60°	3721.7	28.1
60°-70°	1468.0	11.1
70°-80°	146.2	1.1
80°-90°	11.4	0.1
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°	13242.0	100.0
0°-180°	13242.0	100.0

Coefficient of Utilization



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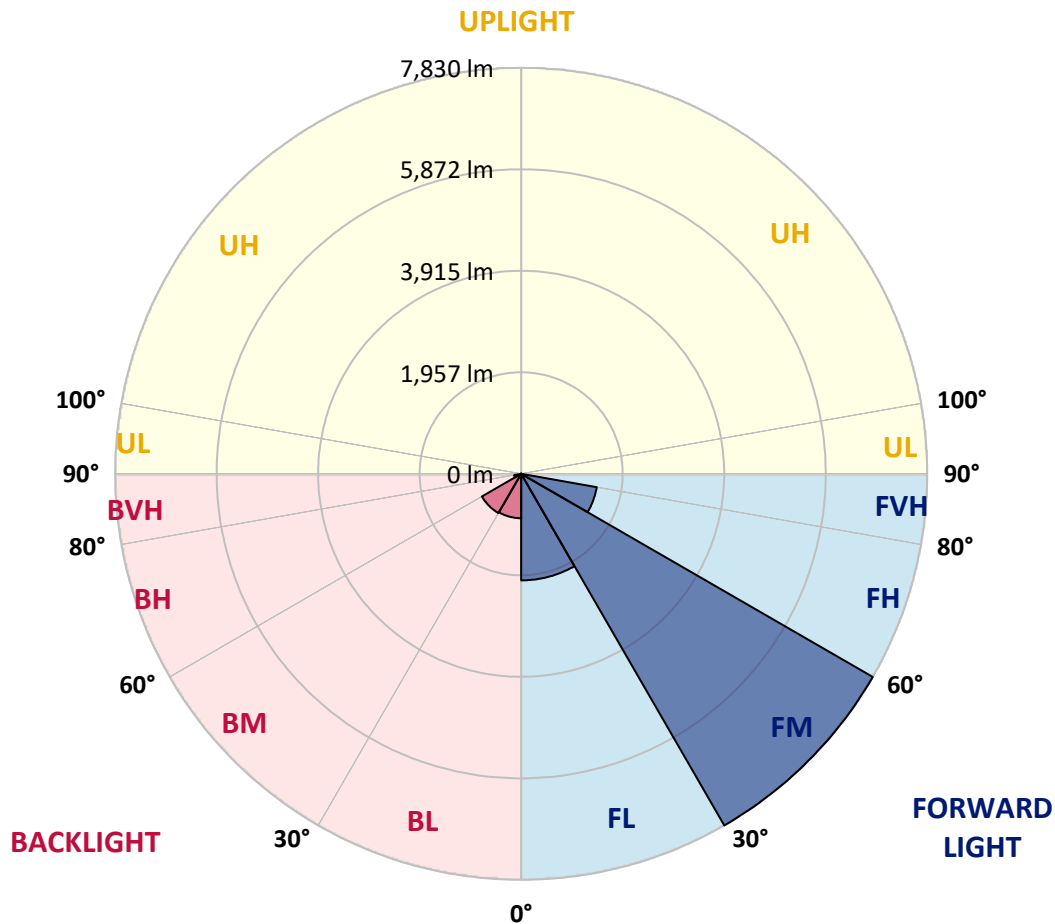
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2055.5	15.5			
FM	(30°-60°)	7830.0	59.1			
FH	(60°-80°)	1480.0	11.2			G1/1800
FVH	(80°-90°)	5.2	0.0			G0/10
BL	(0°-30°)	855.9	6.5	B2/1000		
BM	(30°-60°)	875.1	6.6	B1/1000		
BH	(60°-80°)	134.2	1.0	B1/500		G1/500
BVH	(80°-90°)	6.2	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3
2.5°	6173.1	6109.1	6114.0	6091.8	6062.3	6084.4	5988.4	6010.6	6008.1	5877.6	5791.4
5°	6018.0	6086.9	6015.5	6074.6	6018.0	6079.5	6020.4	5976.1	5904.7	5808.7	5648.6
7.5°	5754.5	5688.0	5707.7	5781.6	5793.9	5931.8	5857.9	5914.5	5885.0	5695.4	5476.2
10°	5225.1	5210.3	5308.8	5407.3	5527.9	5675.7	5732.3	5700.3	5678.2	5606.7	5313.7
12.5°	4818.8	4860.7	4858.2	5020.7	5225.1	5308.8	5456.5	5451.6	5574.7	5441.8	5161.1
15°	4432.2	4454.4	4557.8	4658.7	4885.3	5124.1	5306.3	5331.0	5478.7	5385.1	5042.9
17.5°	4195.8	4163.8	4245.1	4365.7	4597.2	4909.9	5111.8	5170.9	5372.8	5353.1	4907.4
20°	3961.9	3961.9	4028.4	4171.2	4383.0	4735.1	5094.6	5077.3	5372.8	5316.2	4762.2
22.5°	3883.1	3922.5	3939.7	4048.1	4299.2	4602.1	5020.7	5052.7	5414.7	5299.0	4698.1
25°	3991.5	3939.7	3944.7	4030.8	4267.2	4538.1	4966.5	5037.9	5491.0	5385.1	4646.4
27.5°	4008.7	4060.4	4075.2	4134.3	4291.9	4557.8	5102.0	5247.2	5680.6	5587.0	4661.2
30°	4158.9	4210.6	4208.1	4309.1	4417.4	4717.8	5404.8	5434.4	6072.1	5840.7	4752.3
32.5°	4341.1	4395.3	4412.5	4530.7	4616.9	5010.9	5774.2	5850.5	6448.9	6239.6	4991.2
35°	4567.6	4547.9	4626.7	4744.9	4929.6	5439.3	6224.8	6352.8	6855.1	6756.7	5237.4
37.5°	4850.8	4826.2	4902.5	5094.6	5345.7	5946.5	6640.9	6724.6	7150.6	7236.8	5692.9
40°	5050.3	5060.1	5291.6	5550.1	5816.0	6429.2	6904.4	6985.7	7357.5	7685.0	6037.7
42.5°	5382.7	5444.2	5722.5	6037.7	6315.9	6791.1	7118.6	7197.4	7453.5	8044.5	6503.0
45°	5865.3	5838.2	6146.0	6498.1	6805.9	7167.9	7372.2	7345.2	7510.1	8401.5	6796.1
47.5°	6485.8	6490.7	6695.1	6995.5	7315.6	7495.4	7655.4	7559.4	7628.3	8778.2	7187.6
50°	6909.3	6946.3	7111.2	7419.0	7579.1	7854.9	8059.2	8000.1	7978.0	9004.8	7433.8
52.5°	7017.7	7128.5	7217.1	7601.2	7975.5	8411.3	8672.4	8797.9	8404.0	9081.1	7746.5
55°	6200.2	6298.7	6611.4	7138.3	8125.7	9292.9	9652.4	9654.8	8960.4	9420.9	7965.7
57.5°	4956.7	4757.2	4949.3	5508.3	6869.9	9255.9	10130.1	10014.3	9238.7	9221.5	7776.1
60°	3427.6	3378.3	3390.6	3612.3	4754.8	7362.4	9026.9	9177.1	8507.4	7992.7	6155.8
62.5°	2716.0	2674.1	2619.9	2595.3	2952.3	4587.3	6367.6	6579.4	5949.0	5183.2	3649.2
65°	2127.5	2102.8	2110.2	2208.7	2206.3	2602.7	3481.7	3395.6	2718.4	2009.3	1147.4
67.5°	1435.5	1472.5	1502.0	1800.0	1952.6	1812.3	1681.8	1632.5	884.0	371.8	253.6
70°	807.6	812.6	844.6	1125.3	1482.3	1406.0	1159.8	1159.8	440.8	135.4	145.3
72.5°	440.8	426.0	396.4	485.1	659.9	669.8	517.1	450.6	130.5	88.6	81.3
75°	214.2	211.8	182.2	150.2	142.8	118.2	91.1	83.7	59.1	56.6	49.2
77.5°	44.3	41.9	22.2	22.2	24.6	27.1	34.5	34.5	41.9	41.9	34.5
80°	0.0	0.0	2.5	9.8	17.2	24.6	29.5	29.5	34.5	34.5	27.1
82.5°	0.0	0.0	2.5	7.4	14.8	22.2	27.1	29.5	34.5	36.9	29.5
85°	0.0	0.0	0.0	4.9	12.3	17.2	14.8	14.8	12.3	9.8	4.9
87.5°	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3	5833.3
2.5°	5747.1	5742.2	5628.9	5564.9	5449.2	5348.2	5266.9	5207.8	5207.8	5170.9	5136.4
5°	5584.6	5542.7	5301.4	5146.3	4927.1	4764.6	4653.8	4567.6	4432.2	4469.1	4323.9
7.5°	5382.7	5276.8	4956.7	4720.3	4417.4	4186.0	3949.6	3740.3	3538.4	3447.3	3496.5
10°	5166.0	4981.3	4550.4	4176.1	3799.4	3375.9	3100.1	2765.2	2558.4	2546.1	2491.9
12.5°	4937.0	4727.7	4203.2	3686.1	3191.2	2681.5	2260.4	1947.7	1807.4	1652.2	1681.8
15°	4764.6	4454.4	3816.6	3193.7	2536.2	2021.6	1598.1	1356.7	1223.8	1186.8	1174.5
17.5°	4577.5	4245.1	3422.7	2669.2	1989.6	1455.2	1149.9	1034.2	982.5	982.5	975.1
20°	4383.0	4008.7	3031.1	2181.6	1492.2	1085.9	920.9	884.0	881.5	879.1	879.1
22.5°	4254.9	3737.8	2676.6	1733.5	1125.3	869.2	800.3	785.5	795.3	824.9	824.9
25°	4119.5	3476.8	2285.0	1337.0	871.7	746.1	706.7	716.5	741.2	768.2	758.4
27.5°	3981.6	3306.9	1915.7	1049.0	714.1	652.5	637.7	659.9	687.0	711.6	704.2
30°	3949.6	3124.7	1566.0	795.3	613.1	568.8	578.6	598.3	625.4	635.3	645.1
32.5°	3998.8	2981.9	1282.9	652.5	534.3	522.0	522.0	531.9	549.1	571.3	563.9
35°	4139.2	2900.6	1014.5	566.3	490.0	477.7	475.2	485.1	494.9	502.3	494.9
37.5°	4353.4	2836.6	829.8	502.3	460.5	440.8	435.8	433.4	443.2	445.7	450.6
40°	4626.7	2871.1	704.2	462.9	430.9	408.7	394.0	394.0	394.0	401.4	403.8
42.5°	4922.2	2917.9	608.2	440.8	403.8	376.7	362.0	357.0	362.0	371.8	369.4
45°	5232.5	3009.0	546.6	406.3	379.2	344.7	325.0	320.1	332.4	352.1	349.7
47.5°	5523.0	3139.5	499.9	384.1	354.6	322.6	297.9	293.0	315.2	342.3	344.7
50°	5813.6	3366.0	482.6	366.9	337.3	300.4	278.2	273.3	297.9	332.4	339.8
52.5°	6148.5	3609.8	470.3	344.7	317.6	283.2	258.5	253.6	280.7	325.0	327.5
55°	6367.6	3816.6	460.5	305.3	280.7	256.1	236.4	233.9	263.5	302.9	312.7
57.5°	6111.5	3528.5	426.0	265.9	238.8	226.5	209.3	209.3	233.9	270.9	278.2
60°	4634.1	2322.0	302.9	214.2	201.9	194.5	187.1	187.1	206.8	233.9	236.4
62.5°	2713.5	1250.9	194.5	172.4	172.4	165.0	152.7	152.7	172.4	187.1	189.6
65°	805.2	401.4	157.6	147.7	145.3	133.0	120.7	118.2	133.0	140.4	137.9
67.5°	231.5	184.7	130.5	123.1	120.7	101.0	93.6	91.1	93.6	88.6	86.2
70°	137.9	125.6	101.0	103.4	91.1	73.9	66.5	64.0	59.1	51.7	46.8
72.5°	76.3	76.3	73.9	78.8	64.0	49.2	41.9	34.5	27.1	22.2	19.7
75°	46.8	49.2	51.7	54.2	41.9	32.0	27.1	17.2	9.8	4.9	4.9
77.5°	32.0	34.5	36.9	39.4	34.5	29.5	22.2	12.3	2.5	0.0	0.0
80°	24.6	27.1	32.0	34.5	36.9	39.4	29.5	12.3	2.5	0.0	0.0
82.5°	27.1	29.5	36.9	34.5	34.5	34.5	27.1	12.3	2.5	0.0	0.0
85°	4.9	7.4	12.3	12.3	17.2	22.2	17.2	4.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)