

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: P651230

Luminaire Tested: **GALN-SA2D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651230  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-840-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11088.6 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

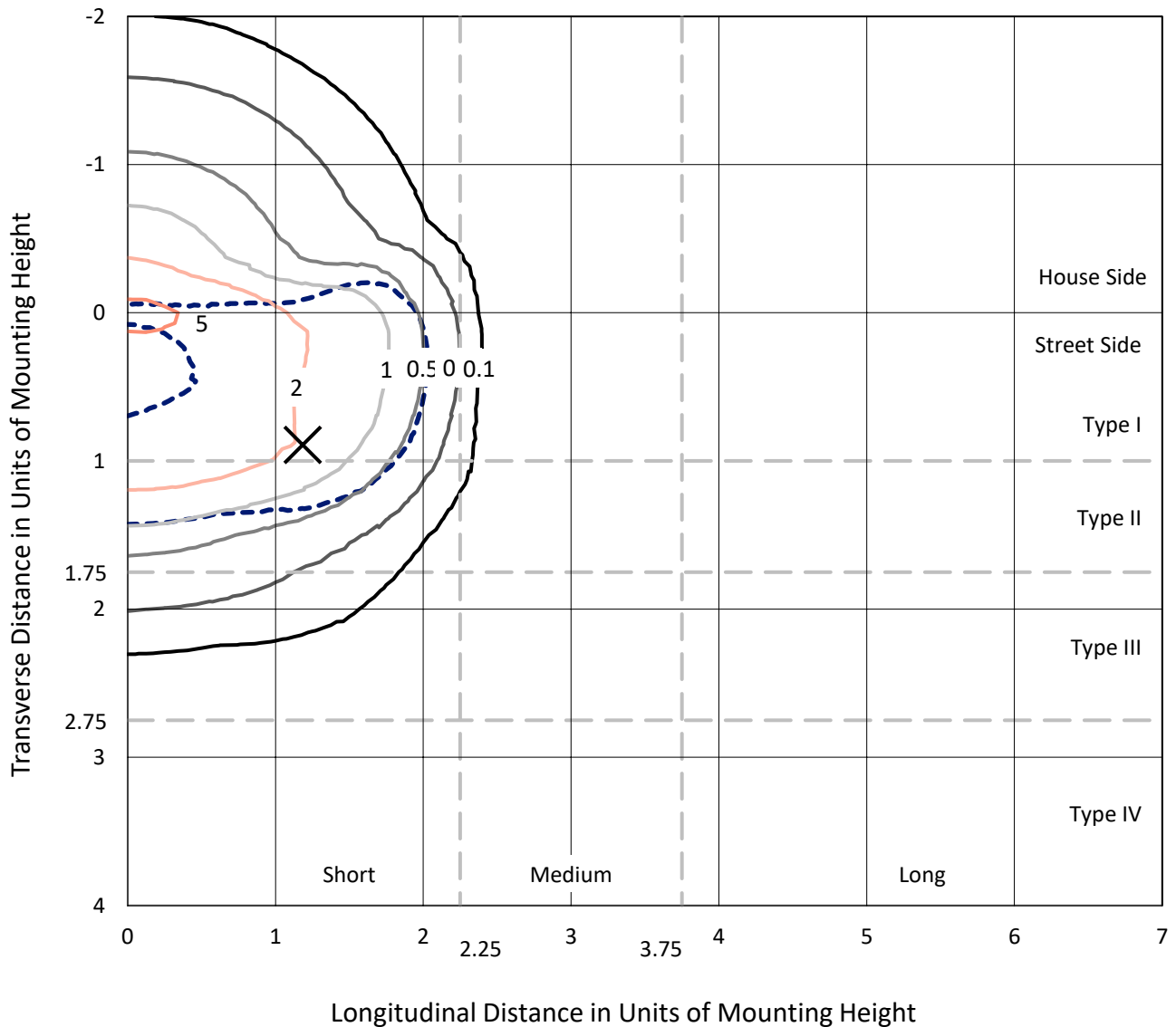
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

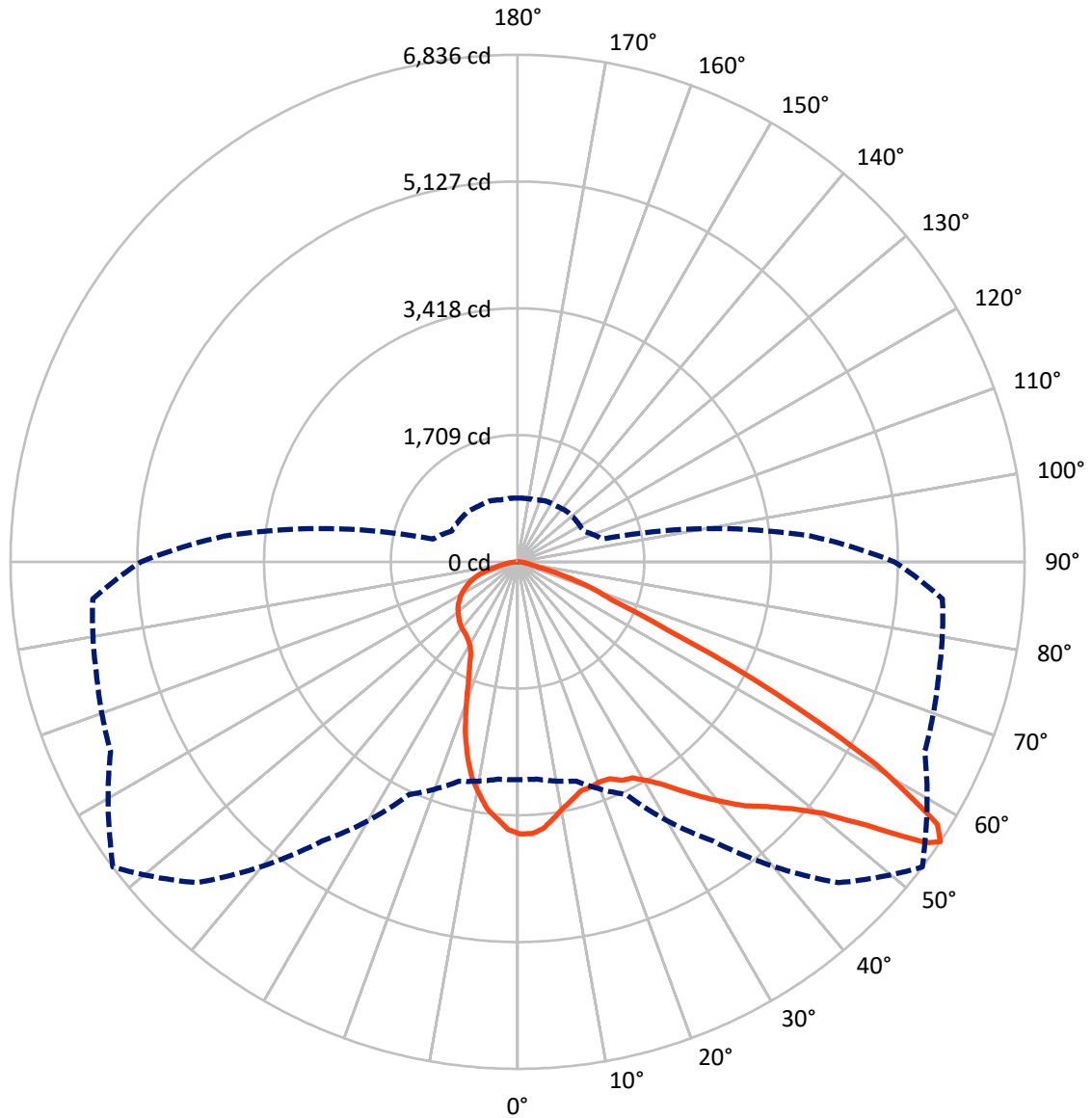
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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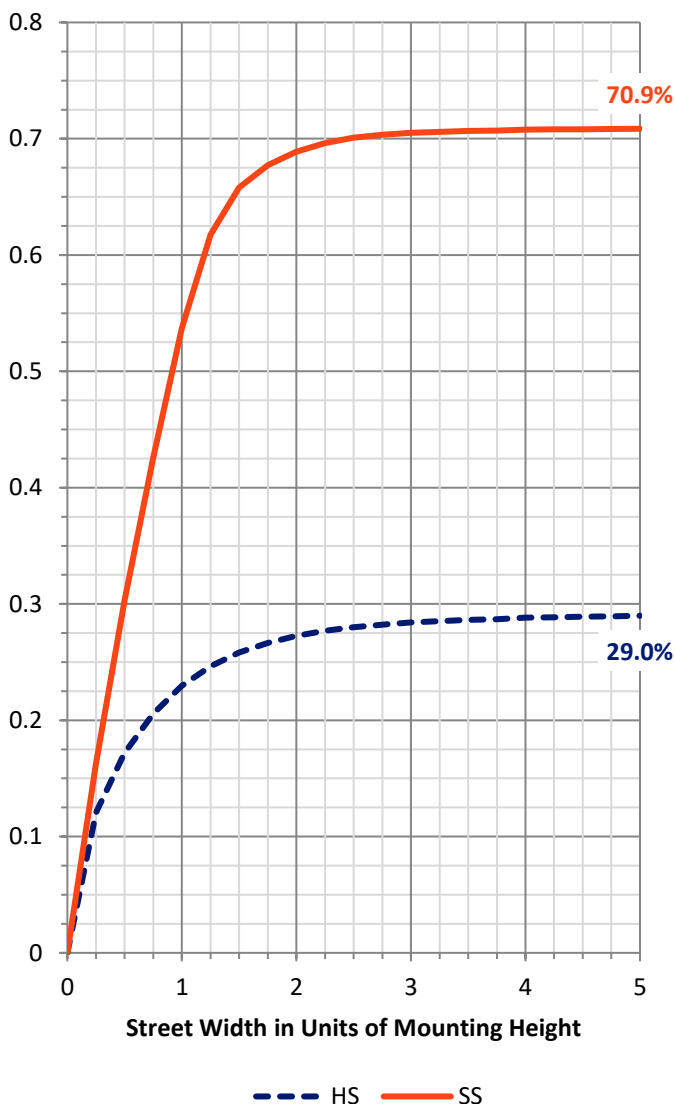
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3235.9	0.0	3235.9
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	7852.7	0.0	7852.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	11088.6	0.0	11088.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.8	2.9
10°-20°	811.1	7.3
20°-30°	1196.1	10.8
30°-40°	1709.0	15.4
40°-50°	2352.2	21.2
50°-60°	2779.7	25.1
60°-70°	1481.4	13.4
70°-80°	375.8	3.4
80°-90°	58.6	0.5
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°	11088.6	100.0
0°-180°	11088.6	100.0

**Coefficient of Utilization**



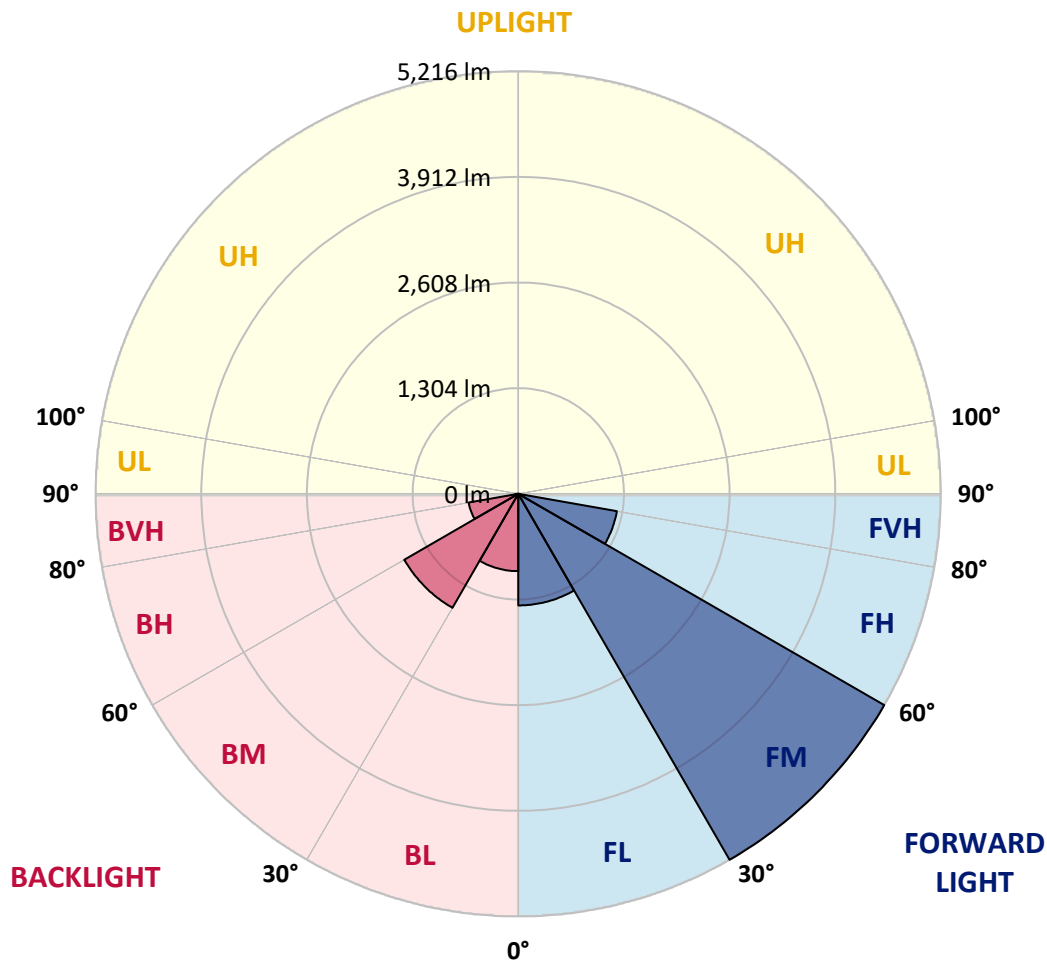
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1377.6	12.4			
FM (30°-60°)	5215.9	47.0			
FH (60°-80°)	1235.7	11.1			G1/1800
FVH (80°-90°)	23.6	0.2			G1/100
BL (0°-30°)	954.4	8.6	B2/1000		
BM (30°-60°)	1625.0	14.7	B2/2500		
BH (60°-80°)	621.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	35.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5
2.5°	3623.0	3591.7	3610.2	3603.1	3661.5	3678.5	3670.0	3677.1	3709.8	3694.2	3661.5
5°	3385.4	3429.6	3438.1	3459.5	3493.6	3560.5	3613.1	3627.3	3643.0	3715.5	3708.4
7.5°	3169.2	3199.2	3183.5	3246.1	3320.0	3428.2	3492.2	3503.5	3647.2	3687.0	3716.9
10°	3032.7	3002.8	3073.9	3091.0	3174.9	3298.7	3375.5	3422.4	3553.3	3711.2	3729.7
12.5°	2906.1	2896.2	2938.8	2987.1	3081.1	3209.1	3287.3	3305.8	3507.8	3674.2	3761.0
15°	2812.2	2800.9	2843.5	2879.1	2988.6	3102.4	3201.9	3254.6	3458.0	3652.9	3734.0
17.5°	2738.2	2736.9	2761.0	2825.0	2937.4	3032.7	3193.4	3196.3	3432.4	3685.6	3756.7
20°	2734.0	2732.6	2736.9	2807.9	2910.4	3027.0	3166.4	3192.0	3432.4	3662.9	3758.2
22.5°	2769.6	2746.8	2772.4	2817.9	2891.9	3036.9	3176.4	3233.2	3514.9	3775.2	3822.2
25°	2826.4	2832.2	2846.4	2862.0	2904.6	3059.7	3264.6	3311.5	3611.7	3872.0	3910.4
27.5°	2930.3	2927.4	2933.2	2941.6	2978.7	3081.1	3300.1	3421.0	3813.6	4044.0	4005.7
30°	3082.5	3072.5	3095.3	3125.2	3091.0	3149.4	3418.2	3509.2	4001.4	4217.6	4112.3
32.5°	3220.4	3257.4	3300.1	3313.0	3271.7	3283.0	3574.7	3667.1	4157.9	4431.0	4243.2
35°	3392.6	3422.4	3479.4	3519.2	3512.1	3478.0	3788.0	3910.4	4384.0	4587.5	4381.2
37.5°	3560.5	3596.0	3689.9	3808.0	3742.5	3726.9	4015.6	4116.6	4453.8	4671.4	4482.2
40°	3830.7	3829.2	3991.5	4052.6	4110.9	4083.9	4251.8	4285.9	4490.7	4652.9	4485.1
42.5°	4147.9	4128.0	4293.0	4388.3	4463.7	4466.6	4497.8	4486.5	4507.8	4559.0	4455.2
45°	4449.5	4492.1	4658.6	4829.3	4904.6	4913.2	4705.5	4684.2	4537.7	4532.0	4398.3
47.5°	4817.9	4827.8	4964.4	5189.1	5364.2	5304.4	4974.3	4927.4	4668.6	4712.6	4493.5
50°	4839.2	4913.2	5035.6	5300.2	5837.8	5822.2	5322.9	5234.6	4879.1	4968.7	4759.6
52.5°	4392.5	4375.5	4520.6	4953.1	5802.2	6337.1	5900.4	5689.9	5331.4	5263.1	5190.6
55°	3347.1	3386.9	3514.9	3951.6	5038.3	6344.2	6687.0	6514.9	5815.0	5698.4	5614.5
56°	2935.9	2941.6	3062.6	3460.9	4597.4	6118.0	6836.4	6697.0	6055.5	5877.7	5749.6
57.5°	2433.9	2401.1	2463.7	2681.4	3880.5	5640.1	6672.8	6809.3	6337.1	6071.1	5893.3
60°	1916.1	1909.0	1883.3	1923.2	2452.4	4248.9	5554.7	5862.0	6308.7	5889.0	5644.4
62.5°	1564.7	1529.2	1580.3	1637.3	1704.1	2635.9	3903.2	4083.9	5008.5	4701.3	4240.4
65°	1213.4	1196.3	1260.3	1445.3	1485.0	1674.3	2223.4	2362.7	2957.3	2904.6	2557.6
67.5°	835.0	837.8	893.3	1175.0	1377.0	1359.9	1361.3	1433.8	1543.4	1146.5	998.6
70°	529.2	527.7	557.6	756.7	1108.1	1119.5	1062.6	1041.2	987.2	597.4	633.0
72.5°	339.9	330.0	345.7	418.2	573.2	662.9	682.8	695.6	571.8	469.4	509.2
75°	192.0	182.1	176.4	194.9	226.1	261.7	287.4	295.9	331.4	355.6	376.9
77.5°	58.3	52.6	64.0	85.4	112.4	150.8	183.5	189.2	223.3	251.8	273.1
80°	25.6	28.4	39.9	56.9	79.6	106.7	129.4	138.0	160.7	182.1	187.8
82.5°	15.6	17.1	27.0	38.4	55.5	75.4	92.4	95.3	118.1	135.1	139.4
85°	5.7	7.1	14.2	22.8	35.6	48.4	48.4	52.6	48.4	48.4	52.6
87.5°	0.0	0.0	1.4	2.9	2.9	4.3	5.7	5.7	7.1	8.5	9.9
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°	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5	3668.5
2.5°	3678.5	3671.4	3660.0	3618.7	3614.4	3601.7	3530.6	3519.2	3530.6	3496.5	3499.2
5°	3671.4	3692.7	3607.4	3566.1	3489.3	3433.8	3369.8	3337.1	3278.8	3241.8	3283.0
7.5°	3702.7	3694.2	3587.5	3497.8	3382.6	3241.8	3129.4	3065.4	2963.0	2934.6	2955.9
10°	3691.3	3645.8	3520.6	3402.5	3184.9	3061.2	2879.1	2702.7	2605.9	2556.1	2549.1
12.5°	3675.7	3662.9	3453.7	3250.3	3021.3	2761.0	2505.0	2338.6	2180.6	2112.3	2122.3
15°	3694.2	3586.0	3328.6	3071.1	2766.7	2425.3	2149.3	1934.6	1825.1	1780.9	1780.9
17.5°	3685.6	3549.0	3268.8	2870.5	2485.1	2081.1	1778.0	1648.6	1603.1	1603.1	1615.9
20°	3689.9	3573.2	3147.9	2670.0	2152.2	1752.5	1532.0	1485.0	1505.0	1512.1	1519.2
22.5°	3714.0	3493.6	3029.9	2449.5	1843.6	1499.3	1391.2	1392.6	1428.2	1466.5	1459.5
25°	3744.0	3462.3	2886.1	2230.4	1607.4	1375.5	1341.4	1337.1	1364.2	1384.0	1386.9
27.5°	3718.3	3408.2	2739.6	1957.3	1414.0	1293.0	1285.9	1288.7	1297.3	1337.1	1324.3
30°	3802.2	3423.9	2556.1	1728.3	1307.3	1266.0	1257.5	1253.2	1266.0	1277.4	1267.4
32.5°	3906.1	3368.4	2419.6	1507.8	1254.6	1246.1	1229.0	1223.3	1230.5	1219.0	1224.7
35°	3951.6	3358.4	2241.8	1349.9	1213.4	1206.2	1196.3	1194.9	1196.3	1186.3	1177.8
37.5°	3977.3	3405.4	2038.4	1277.4	1187.7	1194.9	1172.1	1169.2	1143.7	1149.4	1153.6
40°	4021.3	3332.8	1873.4	1207.7	1172.1	1157.9	1138.0	1133.7	1116.6	1106.7	1116.6
42.5°	3957.3	3311.5	1711.3	1177.8	1149.4	1133.7	1119.5	1095.3	1089.6	1081.1	1075.4
45°	3906.1	3189.2	1566.1	1140.8	1122.3	1113.8	1086.7	1061.2	1039.8	1048.4	1035.5
47.5°	3944.5	3146.5	1422.5	1109.5	1085.3	1075.4	1048.4	1028.5	1007.1	997.2	994.3
50°	4098.1	3226.2	1301.5	1086.7	1054.0	1048.4	1012.8	990.0	970.1	963.0	965.9
52.5°	4465.1	3443.8	1219.0	1039.8	1024.2	998.6	978.7	950.2	937.4	914.7	928.9
55°	4930.3	3798.0	1197.8	995.7	987.2	964.5	937.4	916.1	891.9	873.4	869.1
56°	5079.6	3967.2	1180.7	978.7	964.5	951.6	916.1	903.2	864.9	860.6	857.7
57.5°	5200.6	4116.6	1183.5	946.0	931.7	920.3	899.0	867.7	842.1	826.5	833.6
60°	4927.4	3853.5	1129.5	896.2	893.3	871.9	842.1	827.9	796.6	778.1	773.8
62.5°	3662.9	2615.9	916.1	832.2	830.7	807.9	773.8	758.2	752.4	726.9	726.9
65°	2109.5	1640.1	792.3	779.5	768.2	745.4	711.2	698.5	684.2	675.7	668.6
67.5°	900.5	850.7	719.7	718.4	705.5	677.1	642.9	623.0	604.5	587.4	596.0
70°	653.0	662.9	650.1	642.9	627.3	591.7	561.9	537.7	509.2	497.9	506.4
72.5°	517.8	539.1	557.6	559.0	540.5	499.3	466.6	433.9	402.6	386.9	394.0
75°	392.6	406.8	425.3	429.6	402.6	374.1	342.8	308.6	284.5	266.0	268.9
77.5°	283.1	280.2	297.3	294.4	281.7	261.7	233.3	202.0	174.9	157.9	159.3
80°	193.4	197.7	207.6	206.3	190.6	177.8	156.5	130.9	110.9	96.7	93.9
82.5°	135.1	142.2	150.8	143.6	130.9	118.1	102.4	83.9	68.3	56.9	54.1
85°	48.4	55.5	64.0	68.3	72.6	69.7	58.3	46.9	34.1	28.4	27.0
87.5°	9.9	11.4	12.8	12.8	12.8	11.4	9.9	9.9	8.5	4.3	4.3
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)