

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: P648565

Luminaire Tested: **GALN-SA7B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27090.2 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

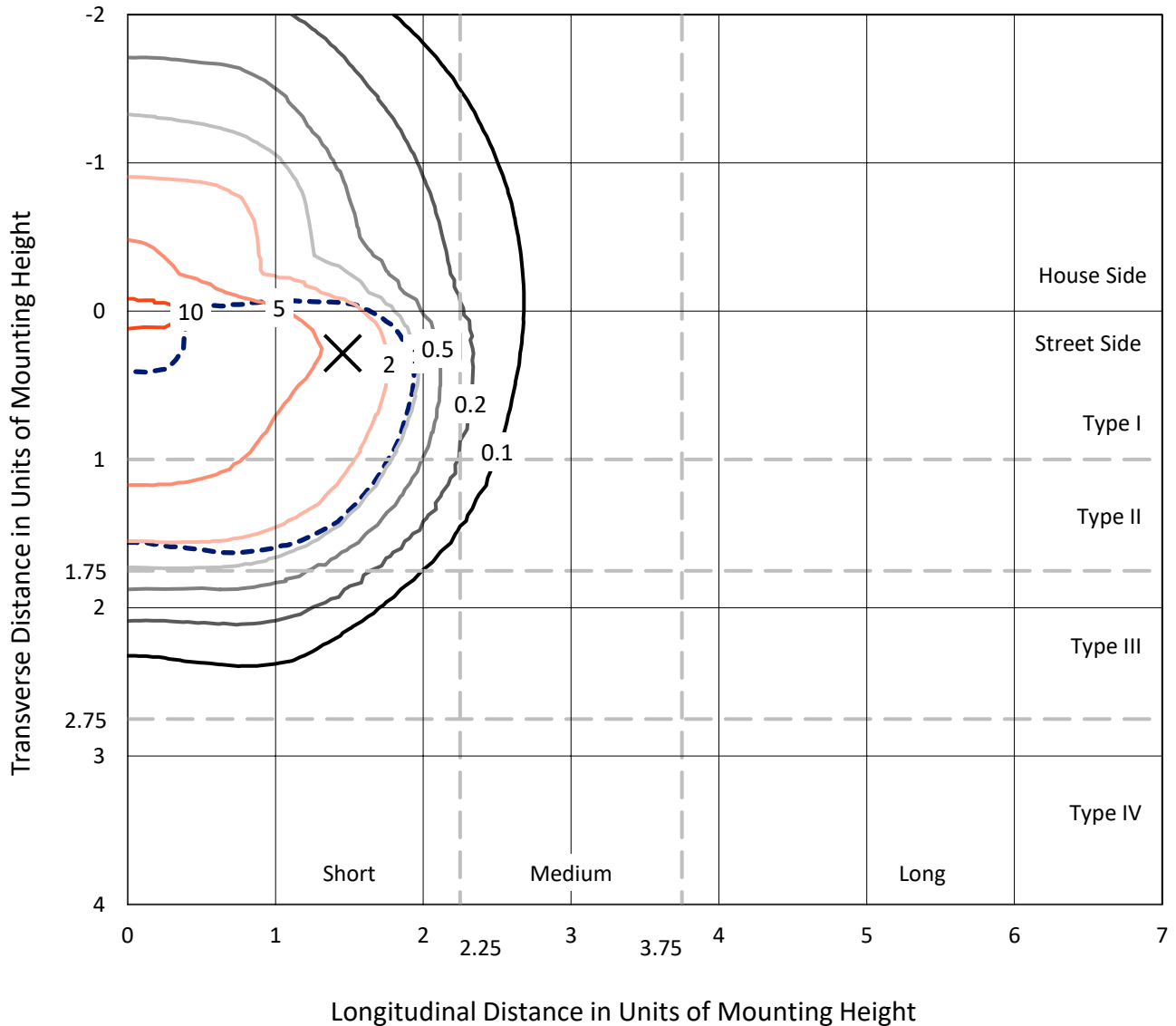
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

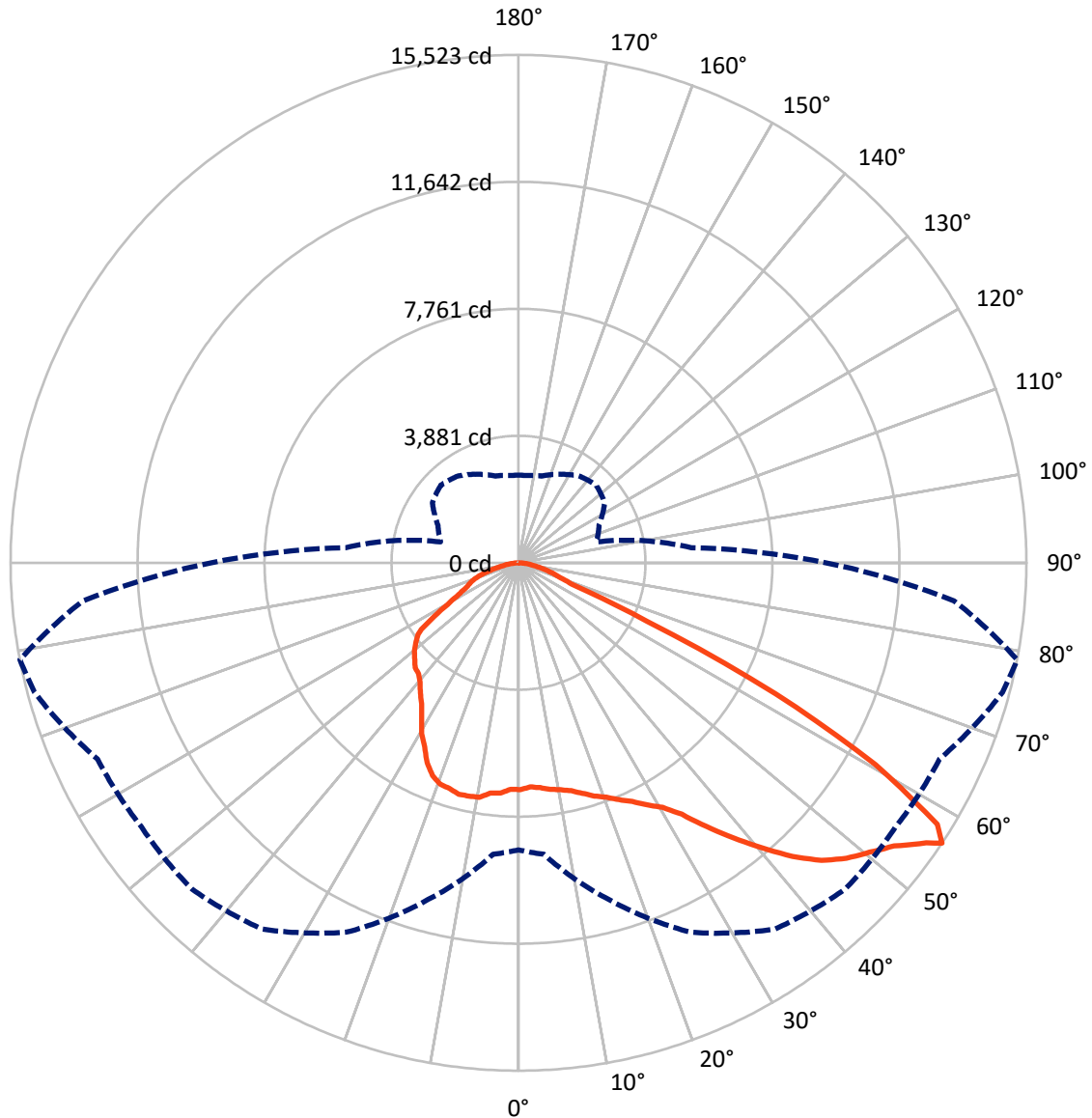
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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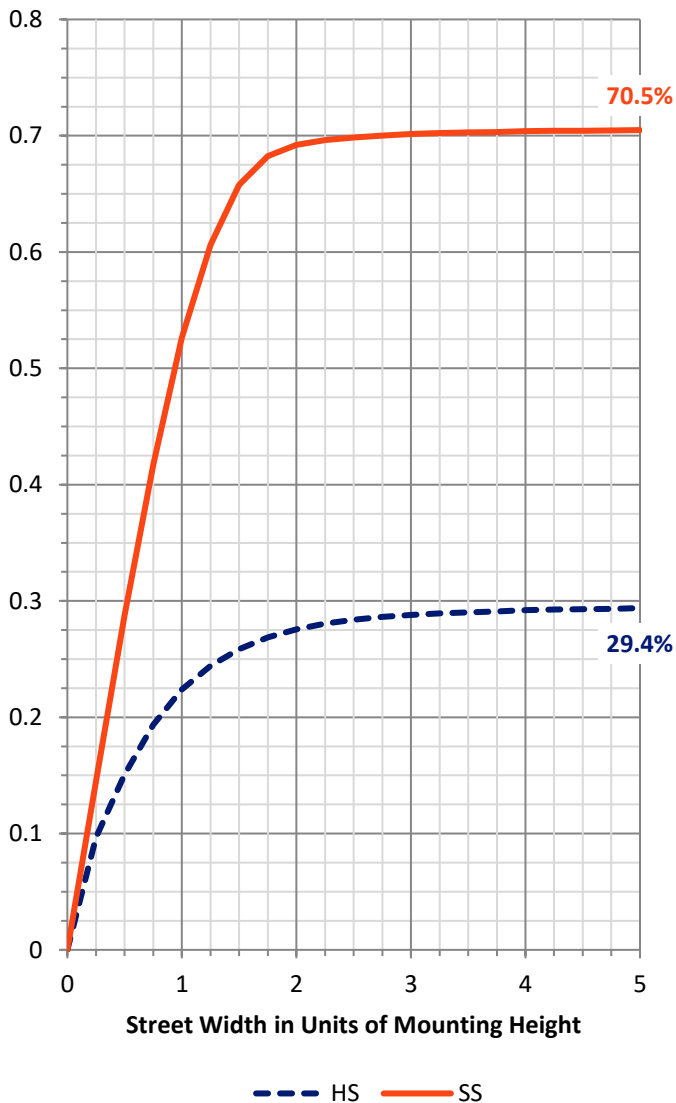
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8000.3	0.0	8000.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	19089.9	0.0	19089.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	27090.2	0.0	27090.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.2	2.3
10°-20°	1724.7	6.4
20°-30°	2950.5	10.9
30°-40°	4522.1	16.7
40°-50°	6111.6	22.6
50°-60°	7019.3	25.9
60°-70°	3199.6	11.8
70°-80°	788.9	2.9
80°-90°	143.4	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°	27090.2	100.0
0°-180°	27090.2	100.0



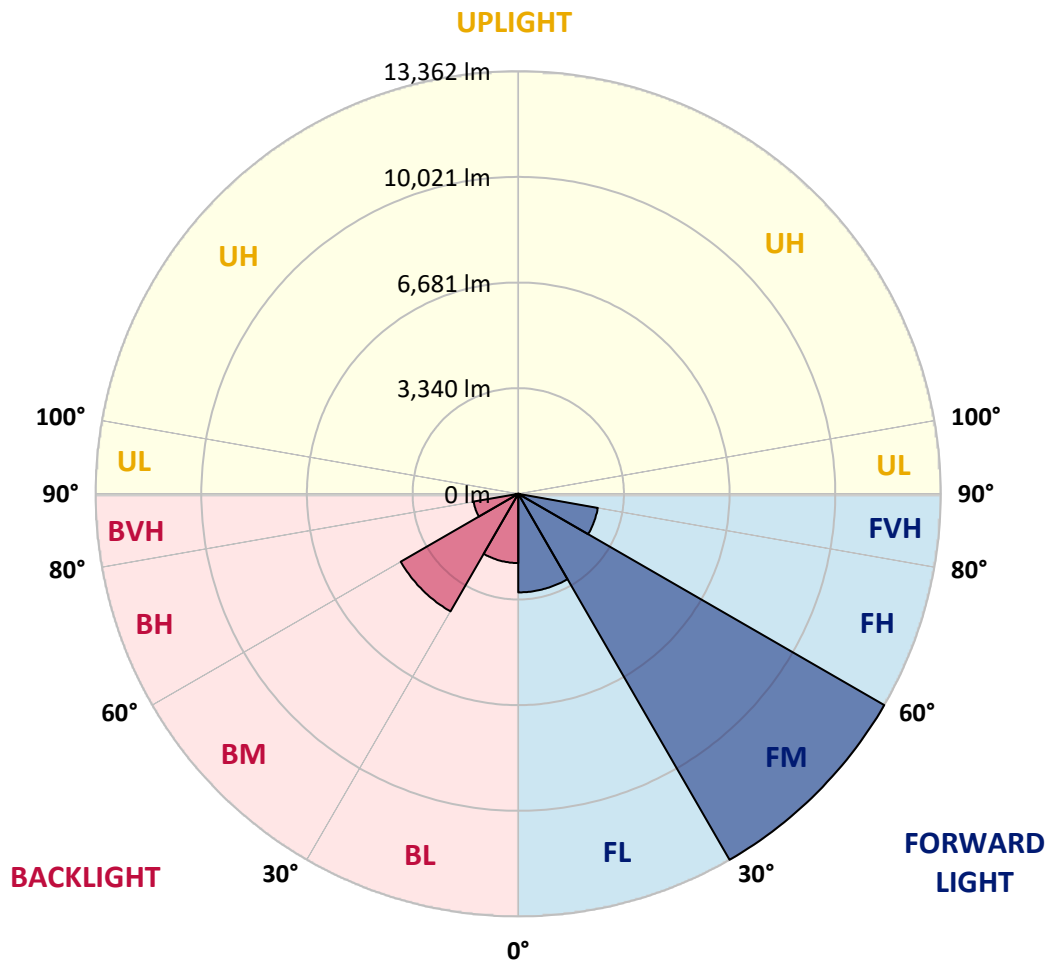
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3117.0	11.5			
FM (30°-60°)	13361.7	49.3			
FH (60°-80°)	2554.0	9.4			G2/5000
FVH (80°-90°)	57.2	0.2			G1/100
BL (0°-30°)	2188.4	8.1	B3/2500		
BM (30°-60°)	4291.3	15.8	B3/5000		
BH (60°-80°)	1434.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	86.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4
2.5°	6593.9	6577.0	6617.4	6647.8	6684.9	6732.2	6755.9	6769.3	6887.4	6857.0	6948.2
5°	6452.2	6408.2	6438.6	6462.3	6526.4	6583.8	6647.8	6749.1	6857.0	6904.3	7015.7
7.5°	6327.3	6303.6	6296.9	6313.8	6401.5	6475.7	6587.1	6735.6	6911.1	6988.7	7052.8
10°	6121.4	6087.7	6138.3	6249.7	6273.3	6428.5	6556.8	6769.3	6921.2	7056.2	7245.2
12.5°	6030.4	5996.6	6006.7	6070.8	6236.1	6384.7	6536.5	6776.1	7096.6	7150.7	7403.7
15°	6175.4	6141.7	6151.8	6135.0	6293.5	6371.1	6610.7	6911.1	7218.2	7309.3	7579.2
17.5°	6506.1	6509.5	6465.6	6428.5	6391.4	6556.8	6722.1	6992.0	7265.4	7494.9	7697.4
20°	7137.2	7025.8	6938.1	6728.9	6671.5	6742.3	6951.6	7211.4	7457.8	7646.7	7876.2
22.5°	7623.1	7633.2	7508.3	7164.1	7039.3	7069.7	7248.5	7461.1	7731.1	7866.1	8129.3
25°	8328.4	8257.5	8122.5	7849.2	7569.1	7592.8	7724.4	7916.7	7990.9	8085.4	8372.2
27.5°	8972.9	8993.1	8726.6	8470.1	8122.5	8055.0	8291.3	8325.0	8200.1	8379.0	8476.8
30°	9627.6	9610.7	9435.2	9134.9	8794.0	8807.6	8912.2	8746.8	8574.7	8672.6	8740.1
32.5°	10305.8	10113.5	10106.7	9836.8	9577.0	9452.1	9323.9	9404.8	9138.2	9158.5	9094.4
35°	10849.2	10876.2	10720.9	10528.6	10400.4	10181.0	9830.0	9975.2	9924.5	9901.0	9624.2
37.5°	11244.0	11139.3	11217.0	11152.9	11031.4	10758.0	10393.6	10532.0	10555.5	10670.3	10349.8
40°	11568.0	11524.0	11729.9	11763.6	11679.3	11088.8	10434.1	10845.8	11200.1	11449.8	11068.5
42.5°	11723.2	11817.7	12033.6	12293.5	12104.5	11473.5	10643.3	11085.4	11875.1	12269.8	11750.2
45°	11932.4	11810.9	12131.5	12607.3	12610.7	11797.4	10845.8	11409.3	12401.5	12975.1	12215.9
47.5°	11719.8	11780.5	12111.2	12715.3	12870.5	12138.2	11392.5	11868.2	12981.9	13491.4	12647.8
50°	11244.0	11365.5	11969.5	12597.2	13066.2	12499.3	12020.1	12364.4	13518.4	13906.5	12718.7
52.5°	10747.9	10815.4	11760.3	12688.3	13154.0	12965.0	12860.4	13049.4	14173.1	14375.6	12806.4
55°	9398.1	9718.7	11068.5	12647.8	13582.5	13805.3	13724.3	14001.0	14915.5	15117.9	13285.6
56°	8773.8	8942.6	10653.4	12458.9	13666.9	14112.3	14071.8	14196.7	15310.3	15522.9	13359.9
57.5°	7619.8	7633.2	9084.3	11621.9	13349.7	14203.5	14163.0	14260.9	15232.7	15087.6	12708.6
60°	4768.2	4977.5	6182.2	8939.2	11352.0	13177.6	13407.1	12620.8	12843.5	12536.5	9887.4
62.5°	2470.1	2439.8	3239.6	5227.2	7535.4	9435.2	9647.8	9610.7	9266.5	8817.7	6458.9
65°	1231.7	1238.5	1694.0	2588.3	3860.5	4940.3	5534.2	5598.4	4683.9	4309.3	3064.1
67.5°	894.3	928.0	1218.2	1582.7	1818.9	2034.9	2493.8	2446.6	1852.7	1761.5	1633.3
70°	695.1	725.5	988.8	1208.1	1096.7	1096.7	1194.6	1235.1	1319.4	1356.5	1400.5
72.5°	506.2	529.8	755.9	833.5	718.8	772.7	894.3	988.8	1076.5	1090.0	1140.6
75°	347.6	367.9	496.0	458.9	431.9	533.1	654.7	742.4	806.5	840.2	870.6
77.5°	226.1	232.9	283.4	239.6	276.7	344.2	425.2	499.4	563.5	590.5	597.3
80°	101.2	111.3	121.5	151.8	192.4	246.3	303.7	364.5	405.0	415.1	435.3
82.5°	57.4	57.4	74.2	108.0	141.7	178.8	219.3	263.2	310.5	320.6	317.2
85°	30.4	30.4	43.8	64.1	87.8	104.6	101.2	104.6	111.3	128.3	124.9
87.5°	10.1	10.1	13.5	13.5	16.8	20.3	16.8	23.6	30.4	30.4	30.4
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°	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4	6931.4
2.5°	6921.2	6951.6	6911.1	6998.8	6998.8	6981.9	6897.6	6924.5	6944.8	6944.8	6961.7
5°	7052.8	7042.7	7069.7	6965.1	6901.0	6877.3	6739.0	6671.5	6614.1	6610.7	6560.1
7.5°	7127.0	7100.0	7089.9	7012.3	6728.9	6556.8	6259.8	6087.7	6050.6	5918.9	5969.6
10°	7245.2	7295.8	7245.2	6823.3	6428.5	6033.7	5743.5	5476.9	5372.2	5287.9	5237.3
12.5°	7488.1	7464.5	7170.9	6600.6	6047.2	5578.1	5146.2	4866.1	4761.5	4687.3	4680.5
15°	7694.0	7575.8	7127.0	6249.7	5453.3	4953.8	4599.5	4400.4	4353.2	4359.9	4390.3
17.5°	7764.9	7683.8	6897.6	5885.2	5011.2	4424.0	4258.7	4228.3	4272.2	4322.8	4336.3
20°	7876.2	7747.9	6803.1	5389.2	4464.5	4093.3	4083.2	4191.2	4272.2	4346.4	4356.5
22.5°	8109.1	7785.1	6496.0	4920.1	4089.9	3995.5	4093.3	4184.4	4309.3	4370.0	4316.1
25°	8176.6	7704.1	6064.0	4356.5	3853.8	3934.7	4039.3	4164.2	4251.9	4285.7	4309.3
27.5°	8233.9	7579.2	5480.3	3981.9	3779.5	3931.4	4039.3	4143.9	4191.2	4221.5	4248.6
30°	8395.9	7542.1	4974.1	3732.2	3732.2	3863.9	4002.2	4029.2	4093.3	4130.5	4177.7
32.5°	8476.8	7285.7	4454.4	3573.6	3685.0	3897.6	3907.7	3958.4	3961.7	3992.1	3941.5
35°	8689.4	7103.5	3971.8	3458.9	3705.2	3863.9	3914.5	3884.1	3718.8	3637.7	3654.7
37.5°	8844.7	7012.3	3624.3	3445.4	3708.6	3901.0	3928.0	3698.5	3526.4	3391.4	3425.2
40°	9263.1	6786.2	3361.0	3421.8	3739.0	3941.5	3867.2	3617.5	3307.1	3168.7	3145.1
42.5°	9583.7	6624.3	3195.7	3394.8	3762.6	3998.9	3836.9	3455.5	3138.3	3010.1	3043.8
45°	9954.9	6587.1	3108.0	3401.5	3803.1	4029.2	3799.7	3330.6	2993.3	2942.6	2932.5
47.5°	10086.5	6320.5	3013.5	3344.2	3793.0	4019.1	3674.9	3236.2	2939.2	2946.0	2973.0
50°	9867.2	6047.2	2942.6	3226.0	3725.5	3928.0	3479.2	3111.3	2908.8	2993.3	3040.5
52.5°	9587.1	5767.1	2797.5	3067.5	3587.2	3786.3	3388.0	3104.6	2878.5	2851.5	2861.6
55°	9671.5	5537.6	2595.0	2851.5	3364.4	3523.0	3286.8	3040.5	2804.2	2703.0	2736.7
56°	9398.1	5301.4	2463.4	2716.5	3212.6	3354.3	3236.2	2983.1	2743.5	2676.0	2676.0
57.5°	8625.4	4508.4	2291.3	2500.5	2892.0	3060.7	3138.3	2949.3	2676.0	2557.9	2561.3
60°	6361.0	3205.8	2055.1	2203.6	2395.9	2530.9	2892.0	2854.9	2507.3	2426.3	2395.9
62.5°	3921.2	2342.0	1886.4	1943.7	2041.6	2152.9	2524.2	2584.9	2328.4	2240.7	2220.4
65°	2196.9	1791.9	1758.1	1781.8	1829.0	1886.4	2095.6	2230.6	2055.1	1920.2	1913.3
67.5°	1606.2	1602.9	1629.9	1650.2	1670.4	1670.4	1721.0	1775.0	1751.4	1643.4	1633.3
70°	1427.4	1437.6	1457.8	1461.2	1467.9	1444.3	1403.8	1386.9	1413.9	1346.4	1333.0
72.5°	1177.7	1211.5	1235.1	1238.5	1201.4	1171.0	1116.9	1059.6	1039.4	1025.9	1022.5
75°	904.4	928.0	938.1	934.7	921.3	877.4	813.3	755.9	718.8	678.3	698.5
77.5°	610.8	644.6	661.4	661.4	641.2	573.7	543.3	499.4	462.3	418.4	425.2
80°	428.5	452.2	479.2	475.8	442.1	408.3	364.5	323.9	293.5	259.9	256.4
82.5°	320.6	334.1	347.6	340.8	317.2	283.4	253.1	216.0	182.2	158.6	158.6
85°	114.7	124.9	151.8	158.6	172.1	172.1	145.1	121.5	97.9	81.0	81.0
87.5°	33.7	33.7	37.1	37.1	33.7	37.1	30.4	33.7	37.1	23.6	23.6
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)