

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: P941847

Luminaire Tested: **GALN-SB5C-827-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-827-U-T3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

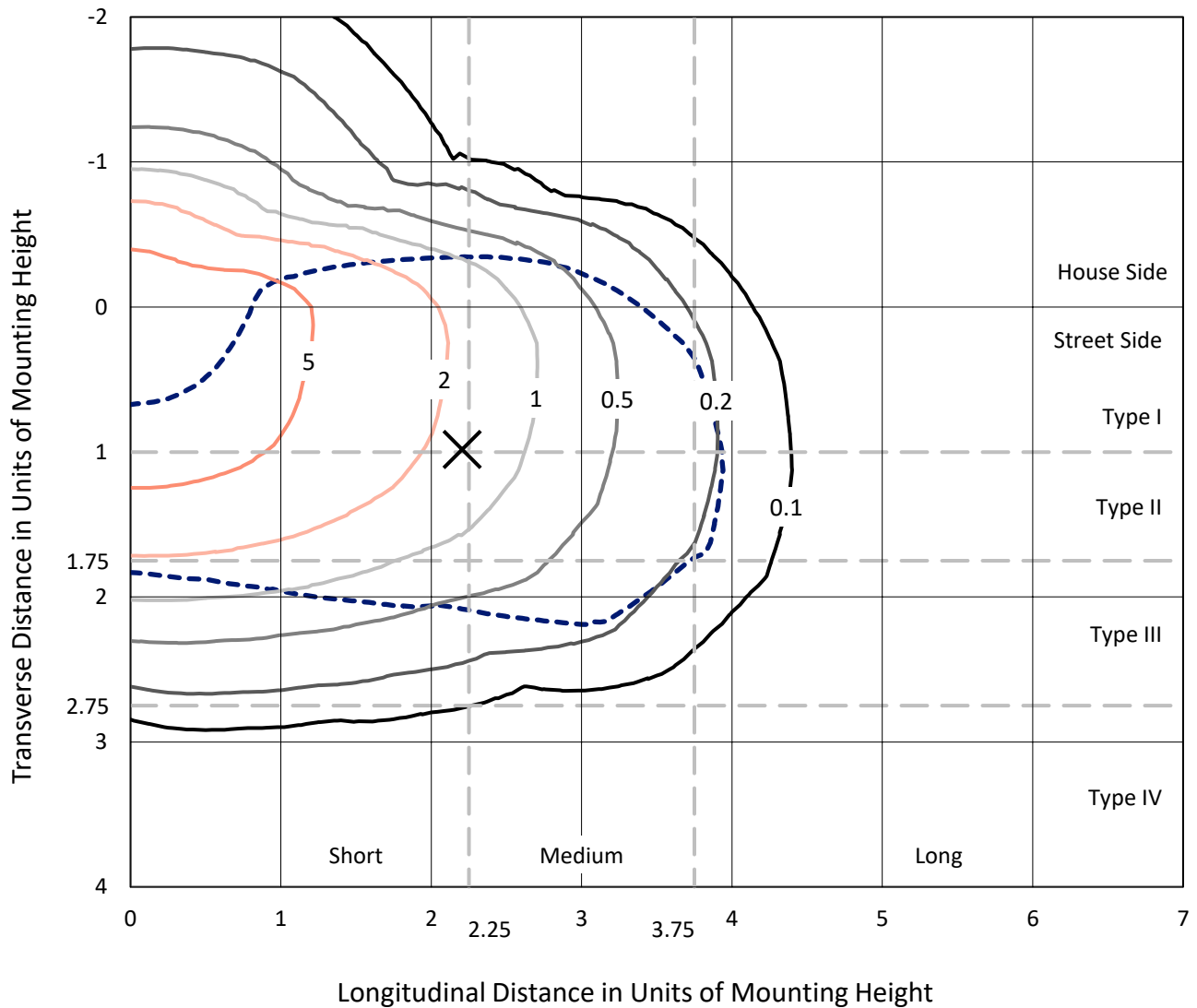
Lumens per Lamp: N/A  
Luminaire Lumens: 32918 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

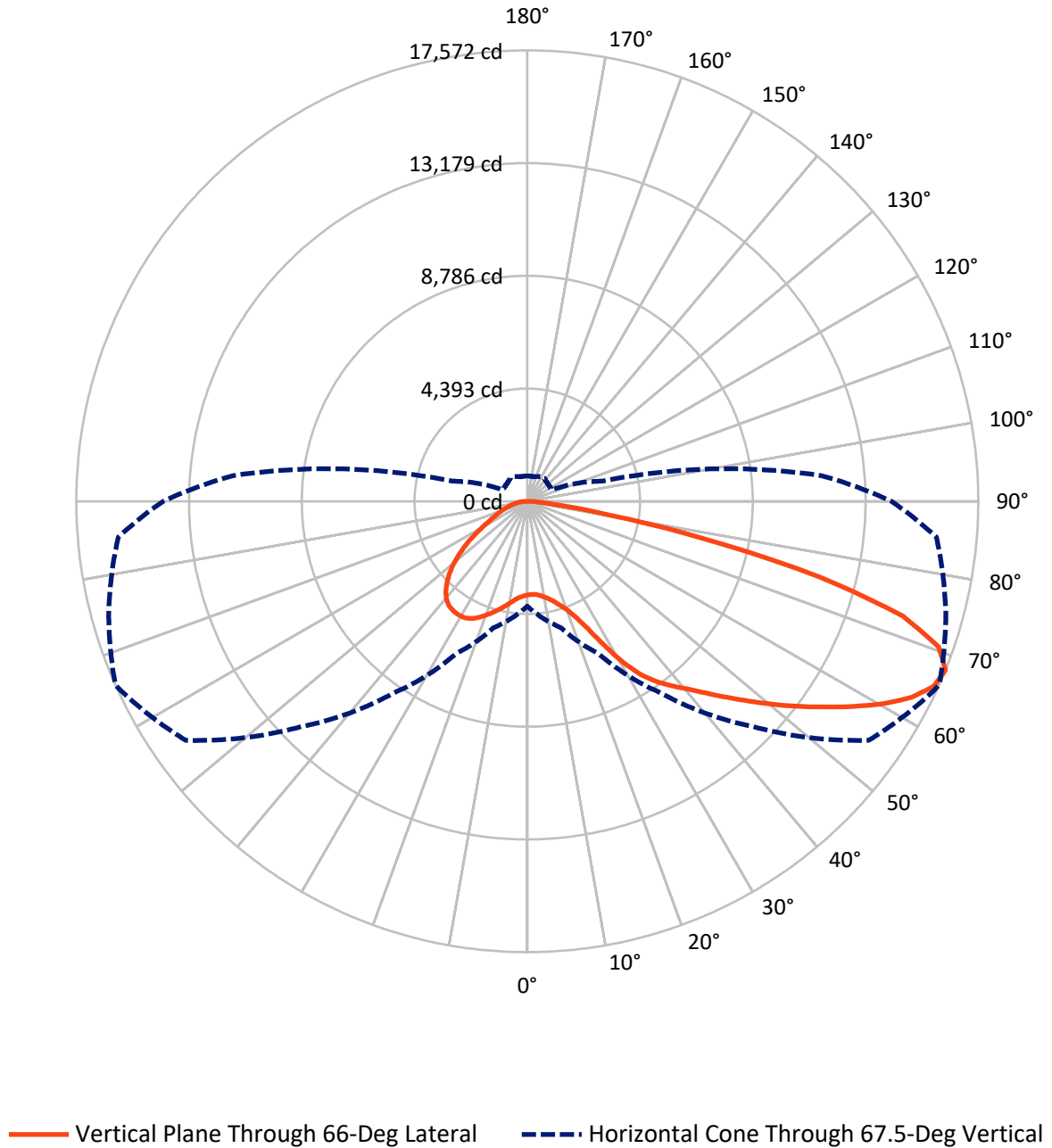
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8185.0	0.0	8185.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	24733.0	0.0	24733.0
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	32918.0	0.0	32918.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.0	1.1
10°-20°	1196.0	3.6
20°-30°	2305.1	7.0
30°-40°	4041.8	12.3
40°-50°	6008.8	18.3
50°-60°	7616.7	23.1
60°-70°	7452.7	22.6
70°-80°	3555.0	10.8
80°-90°	379.9	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°	32918.0	100.0
0°-180°	32918.0	100.0

**Coefficient of Utilization**



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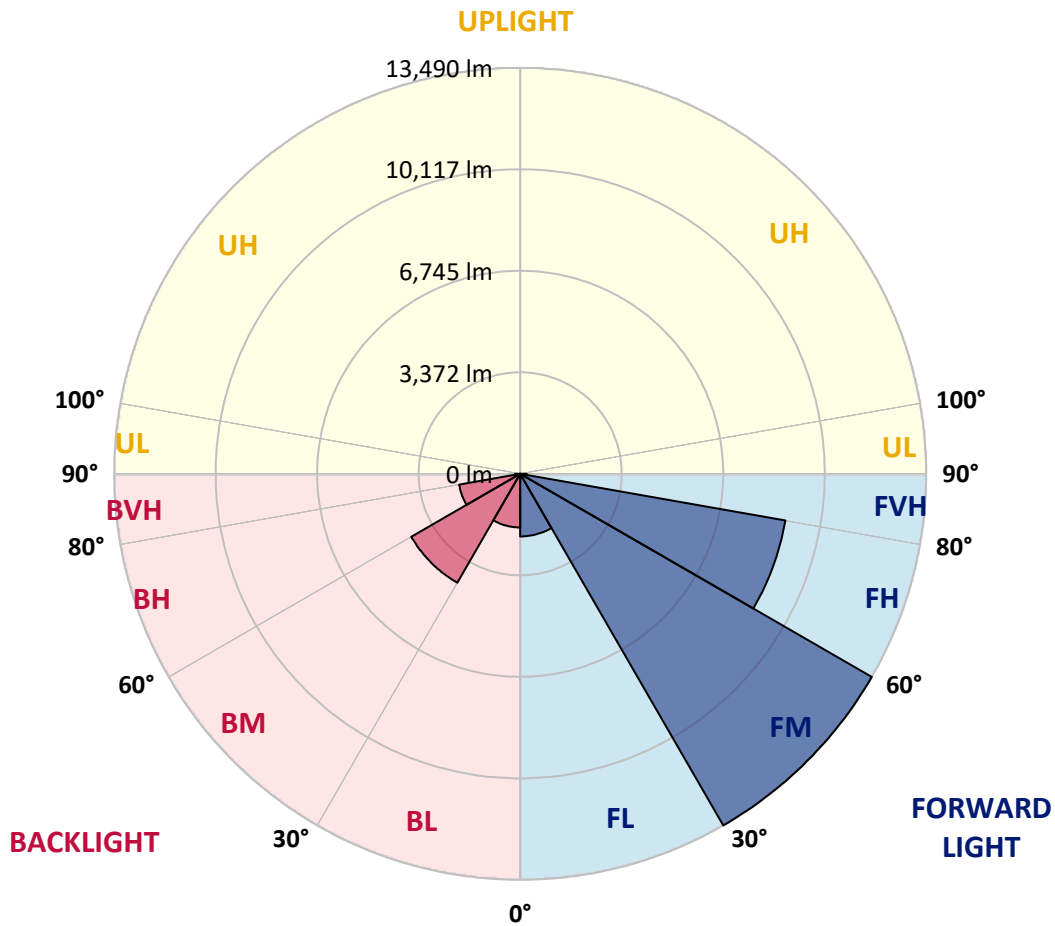
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2080.1	6.3			
FM (30°-60°)	13489.5	41.0			
FH (60°-80°)	8948.0	27.2			G4/12000
FVH (80°-90°)	215.4	0.7			G2/225
BL (0°-30°)	1783.0	5.4	B3/2500		
BM (30°-60°)	4177.7	12.7	B3/5000		
BH (60°-80°)	2059.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	164.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0
2.5°	3613.0	3633.7	3628.6	3619.9	3618.2	3621.6	3626.8	3632.0	3630.3	3638.9
5°	3602.6	3623.4	3621.6	3621.6	3628.6	3642.4	3651.0	3659.7	3651.0	3661.4
7.5°	3609.5	3625.1	3632.0	3638.9	3656.2	3682.2	3702.9	3722.0	3711.6	3723.7
10°	3697.7	3709.8	3716.8	3716.8	3728.9	3758.3	3779.0	3813.6	3805.0	3824.0
12.5°	3858.6	3870.7	3870.7	3863.8	3872.4	3891.4	3898.4	3936.4	3920.8	3952.0
15°	4055.8	4080.0	4060.9	4048.8	4052.3	4071.3	4069.6	4099.0	4083.4	4109.4
17.5°	4273.7	4304.8	4273.7	4271.9	4265.0	4285.8	4287.5	4313.5	4285.8	4304.8
20°	4531.4	4574.6	4548.7	4557.3	4541.8	4550.4	4559.0	4597.1	4553.9	4567.7
22.5°	4894.6	4946.5	4918.8	4951.6	4941.3	4934.4	4932.6	5000.1	4932.6	4937.8
25°	5423.8	5486.1	5437.6	5482.6	5482.6	5505.1	5531.0	5617.5	5505.1	5472.2
27.5°	6205.6	6267.8	6172.7	6200.4	6191.7	6247.1	6219.4	6433.9	6312.8	6259.2
30°	7146.4	7257.1	7077.2	7070.3	7061.7	7149.9	7189.7	7331.5	7208.7	7155.1
32.5°	8163.4	8279.3	8064.8	8002.5	7969.7	8023.3	7990.4	8104.6	8019.8	7936.8
35°	9239.2	9353.3	9149.2	9028.2	8896.7	8784.3	8666.7	8696.1	8616.5	8490.3
37.5°	10256.1	10465.4	10249.2	10119.5	9877.4	9657.7	9329.1	9192.5	9118.1	9002.2
40°	11292.1	11411.4	11247.1	11136.5	10873.6	10529.4	10003.6	9714.8	9614.5	9502.0
42.5°	12054.8	12169.0	12080.8	12004.7	11798.9	11399.3	10719.6	10358.2	10212.9	10086.6
45°	12660.2	12744.9	12689.6	12717.2	12629.0	12241.6	11461.6	11048.2	10897.8	10743.9
47.5°	12904.0	12994.0	13082.2	13246.5	13397.0	13111.6	12258.9	11795.4	11636.3	11478.9
50°	12876.4	12968.0	13224.0	13573.4	14040.3	13945.2	13099.5	12591.0	12444.0	12264.1
52.5°	12655.0	12758.8	13087.4	13668.5	14412.2	14569.6	13955.6	13412.5	13274.2	13059.7
55°	12073.9	12136.1	12629.0	13452.3	14500.4	15005.4	14794.4	14287.7	14149.3	13850.1
57.5°	10996.4	11086.3	11804.1	12869.4	14279.0	15301.2	15531.2	15207.8	15074.6	14643.9
60°	9590.3	9733.8	10555.3	11890.5	13715.2	15299.4	16200.5	16112.3	16001.6	15425.7
62.5°	7999.1	8165.1	8955.5	10506.9	12729.4	14865.3	16619.1	16869.9	16812.8	16146.9
65°	6143.3	6257.4	7044.4	8716.8	11195.3	13933.1	16667.5	17387.0	17397.4	16695.2
67.5°	4090.3	4419.0	5102.1	6541.1	9140.6	12409.4	16242.0	17471.7	17572.0	16883.7
70°	1995.9	2428.3	3097.6	4251.2	6541.1	10072.8	15129.9	16776.5	16999.6	16333.7
72.5°	828.4	968.5	1333.5	2097.9	3754.8	6797.1	12895.4	14891.3	15304.6	14472.7
75°	558.6	605.3	762.7	1075.8	1710.5	3351.8	9299.7	11103.6	11769.5	10930.6
77.5°	430.7	460.1	555.2	752.3	1017.0	1267.7	4977.6	6691.6	7035.7	6513.4
80°	339.0	361.5	415.1	548.3	721.2	678.0	1696.7	3031.9	3230.8	2710.2
82.5°	294.0	302.7	297.5	371.8	479.1	396.1	556.9	1119.0	1234.9	895.9
85°	212.7	236.9	247.3	230.0	254.2	200.6	228.3	396.1	435.8	389.1
87.5°	86.5	128.0	157.4	148.7	93.4	57.1	70.9	115.9	133.2	145.3
90°	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):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3651.0	0°	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0	3651.0
3652.8	2.5°	3654.5	3666.6	3675.3	3685.6	3692.5	3702.9	3723.7	3735.8	3737.5	3746.2
3680.4	5°	3687.4	3704.7	3723.7	3751.4	3782.5	3808.4	3848.2	3875.9	3886.3	3894.9
3747.9	7.5°	3758.3	3782.5	3817.1	3865.5	3910.5	3945.1	3993.5	4026.3	4059.2	4071.3
3855.1	10°	3863.8	3898.4	3948.5	4014.2	4062.7	4107.6	4157.8	4185.5	4218.3	4232.2
3983.1	12.5°	3995.2	4031.5	4097.3	4188.9	4233.9	4265.0	4282.3	4275.4	4282.3	4294.4
4137.0	15°	4145.7	4185.5	4259.8	4358.4	4389.6	4361.9	4323.8	4289.2	4284.0	4287.5
4323.8	17.5°	4323.8	4353.2	4439.7	4522.7	4500.2	4386.1	4303.1	4247.7	4220.1	4211.4
4562.5	20°	4572.9	4572.9	4643.8	4695.7	4545.2	4351.5	4221.8	4131.9	4074.8	4050.6
4887.7	22.5°	4875.5	4847.9	4892.8	4856.5	4536.6	4254.6	4074.8	3919.1	3832.6	3798.1
5342.5	25°	5259.5	5226.6	5214.5	4989.7	4474.3	4100.7	3808.4	3619.9	3543.8	3524.8
5998.0	27.5°	5838.9	5755.9	5598.5	5062.3	4360.1	3858.6	3497.1	3322.4	3279.2	3280.9
6840.3	30°	6610.3	6444.2	6058.5	5074.4	4173.4	3516.1	3178.9	3054.4	3033.6	3042.2
7547.7	32.5°	7324.6	7167.2	6529.0	5019.1	3886.3	3180.6	2893.5	2810.5	2779.4	2789.7
8087.3	35°	7884.9	7841.7	6964.8	4941.3	3533.4	2865.8	2637.5	2566.6	2506.1	2492.3
8595.8	37.5°	8414.2	8396.9	7291.7	4832.3	3184.1	2642.7	2431.7	2338.3	2250.1	2201.7
9157.9	40°	8995.3	8978.0	7506.2	4664.5	2874.5	2449.0	2246.7	2123.9	2014.9	1926.7
9794.3	42.5°	9649.1	9547.0	7608.2	4424.1	2611.6	2284.7	2096.2	1930.2	1786.6	1705.3
10513.8	45°	10363.4	10133.3	7606.5	4118.0	2390.2	2134.2	1935.3	1700.1	1567.0	1490.9
11252.3	47.5°	11120.9	10693.7	7513.1	3779.0	2175.8	1968.2	1686.3	1506.4	1418.2	1371.5
12054.8	50°	11902.6	11217.7	7354.0	3389.9	1956.1	1779.7	1530.6	1407.8	1340.4	1297.1
12850.4	52.5°	12637.7	11693.4	7162.0	2948.9	1733.0	1596.4	1461.5	1366.3	1295.4	1247.0
13621.8	55°	13320.9	12103.3	6890.5	2497.4	1551.4	1473.6	1428.6	1349.0	1267.7	1210.7
14405.3	57.5°	13927.9	12369.6	6421.8	2073.7	1421.7	1388.8	1394.0	1319.6	1226.2	1177.8
15176.6	60°	14432.9	12565.0	5728.2	1681.1	1316.2	1305.8	1340.4	1264.3	1155.3	1100.0
15828.7	62.5°	14735.6	12561.6	4877.3	1376.7	1226.2	1229.7	1269.5	1195.1	1084.4	1032.5
16169.4	65°	14709.7	12253.7	3943.3	1177.8	1139.8	1143.2	1195.1	1119.0	1025.6	994.5
15998.2	67.5°	14189.1	11503.1	3025.0	1048.1	1044.6	1060.2	1120.7	1067.1	989.3	985.8
14977.7	70°	12779.5	9944.8	2179.2	944.3	946.1	968.5	1048.1	1034.3	970.3	977.2
12592.7	72.5°	10247.5	7582.3	1463.2	835.4	837.1	873.4	978.9	1008.3	951.2	1042.9
8934.8	75°	6824.7	4728.5	940.9	719.5	721.2	767.9	918.4	958.2	899.4	1039.4
4649.0	77.5°	3279.2	2125.6	681.4	605.3	605.3	648.6	793.9	857.8	766.2	807.7
1494.3	80°	1132.8	799.0	536.2	487.7	477.4	506.8	669.3	743.7	660.7	608.8
487.7	82.5°	446.2	415.1	430.7	378.8	344.2	363.2	520.6	614.0	486.0	439.3
275.0	85°	256.0	269.8	304.4	250.8	198.9	223.1	382.2	441.0	366.7	323.4
89.9	87.5°	69.2	95.1	140.1	129.7	89.9	95.1	181.6	243.9	211.0	162.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°  
3651.0  
3744.4  
3893.2  
4073.0  
4239.1  
4297.9  
4299.6  
4223.5  
4045.4  
3792.9  
3528.2  
3286.1  
3071.6  
2803.6  
2502.6  
2203.4  
1935.3  
1710.5  
1487.4  
1361.1  
1281.6  
1226.2  
1188.2  
1146.7  
1075.8  
1017.0  
992.8  
*991.0*  
975.5  
1056.7  
1048.1  
740.2  
570.7  
437.6  
330.3  
167.8  
0.0

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