

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: P952847

Luminaire Tested: **GALN-SB6C-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952847  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6C-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

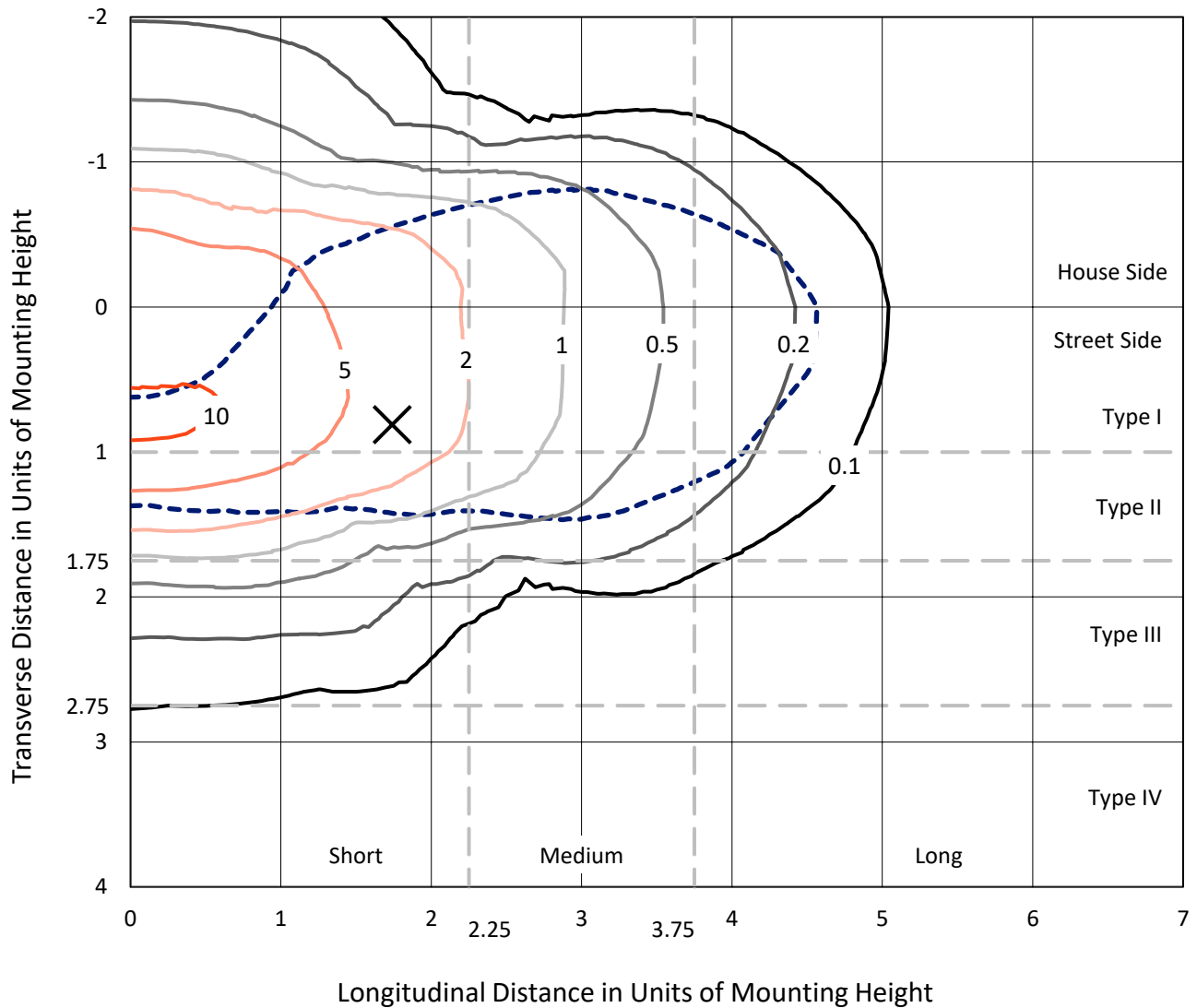
Lumens per Lamp: N/A  
Luminaire Lumens: 40020 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 300.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

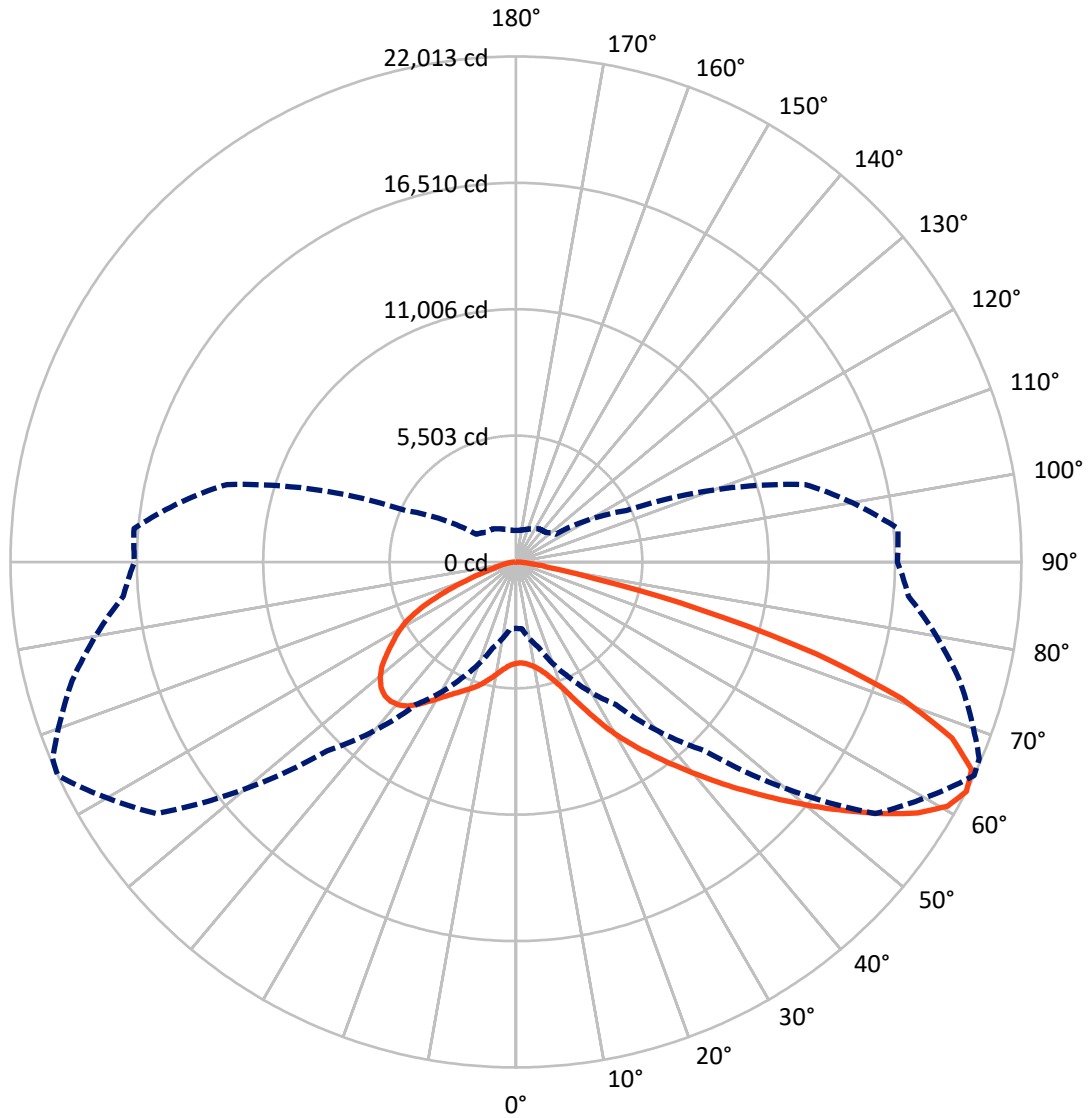
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12628.6	0.0	12628.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	27391.4	0.0	27391.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	40020.0	0.0	40020.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.7	1.1
10°-20°	1491.0	3.7
20°-30°	3023.1	7.6
30°-40°	5231.4	13.1
40°-50°	7916.8	19.8
50°-60°	9281.9	23.2
60°-70°	7781.8	19.4
70°-80°	4296.2	10.7
80°-90°	558.1	1.4
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°	40020.0	100.0
0°-180°	40020.0	100.0



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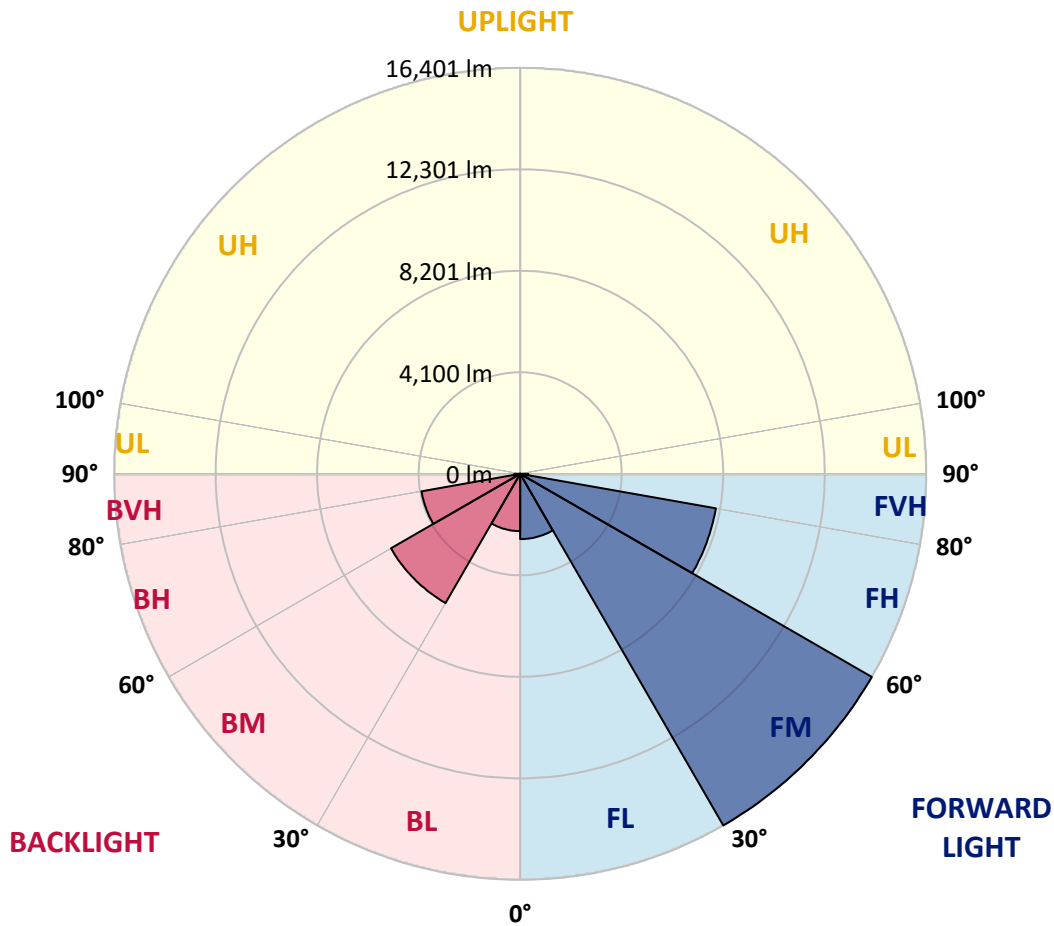
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2637.8	6.6			
FM (30°-60°)	16401.5	41.0			
FH (60°-80°)	8026.8	20.1			G4/12000
FVH (80°-90°)	325.3	0.8			G3/500
BL (0°-30°)	2315.9	5.8	B3/2500		
BM (30°-60°)	6028.7	15.1	B4/8500		
BH (60°-80°)	4051.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	232.8	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0
2.5°	4381.0	4368.5	4378.9	4378.9	4383.0	4381.0	4395.5	4399.6	4405.9	4418.3
5°	4337.4	4335.3	4354.0	4370.6	4387.2	4401.7	4420.4	4447.4	4451.6	4466.1
7.5°	4322.8	4310.4	4339.4	4360.2	4399.6	4434.9	4484.8	4530.5	4549.1	4555.4
10°	4434.9	4414.2	4441.2	4453.6	4486.9	4522.1	4580.3	4653.0	4673.7	4698.6
12.5°	4626.0	4603.1	4642.6	4661.3	4692.4	4723.5	4763.0	4833.6	4844.0	4889.7
15°	4887.6	4860.6	4885.5	4908.3	4960.2	4989.3	5028.8	5097.3	5097.3	5132.6
17.5°	5242.6	5207.3	5226.0	5234.3	5267.5	5311.1	5377.6	5437.8	5468.9	5456.5
20°	5772.1	5728.5	5728.5	5686.9	5674.5	5709.8	5797.0	5880.0	5913.3	5848.9
22.5°	6567.3	6505.0	6469.7	6328.5	6272.5	6276.6	6363.8	6465.6	6492.5	6378.3
25°	7578.4	7480.9	7433.1	7225.5	7098.8	6988.8	7057.3	7188.1	7225.5	7084.3
27.5°	8589.6	8595.8	8550.1	8301.0	8091.3	7889.9	7854.6	7991.6	8031.1	7871.2
30°	10007.7	9860.3	9773.1	9474.1	9175.1	8892.7	8747.4	8803.5	8813.8	8622.8
32.5°	11230.6	11193.3	11006.4	10744.8	10360.7	9918.4	9675.5	9586.2	9569.6	9297.6
35°	12623.8	12603.1	12405.8	12094.4	11679.1	11064.5	10626.4	10371.0	10350.3	9968.2
37.5°	14039.8	14039.8	13846.7	13506.2	13076.4	12308.2	11641.7	11236.9	11170.4	10672.1
40°	15169.3	15100.8	15136.1	14992.9	14500.8	13684.8	12769.2	12181.6	12092.3	11494.3
42.5°	15810.9	15788.1	15999.9	16159.7	15958.3	15306.4	14010.8	13205.2	13080.6	12399.6
45°	15954.2	15929.3	16307.1	16892.7	17175.0	16907.2	15360.4	14282.8	14131.2	13346.4
47.5°	15624.0	15574.2	16128.6	17052.5	17957.8	18429.1	16822.1	15451.7	15231.6	14268.2
50°	14631.6	14583.8	15422.6	16649.7	18221.5	19463.1	18408.3	16691.3	16354.9	15256.5
52.5°	12474.3	12497.2	13811.5	15497.4	17874.7	20106.7	19774.5	17997.2	17592.4	16267.7
55°	9717.0	9766.8	11382.2	13238.4	16487.8	20009.2	20706.8	19342.7	18939.9	17218.6
57.5°	6957.6	7177.7	8691.3	10528.8	13823.9	18462.3	20910.3	20621.7	20231.3	18256.8
60°	4509.7	4549.1	6106.4	7958.4	10526.8	15713.3	20497.1	21591.3	21286.1	19315.7
62.5°	2890.2	2917.2	3866.0	5566.5	7576.4	11625.1	19106.0	22012.8	21919.3	20015.4
65°	2124.0	2103.3	2597.4	3679.2	5103.5	7169.4	16404.7	21809.3	21994.1	20453.5
67.5°	1773.1	1744.1	1987.0	2547.6	3760.2	4071.6	12138.0	20486.7	21163.6	20403.7
70°	1615.4	1590.4	1737.9	1891.5	2933.8	2726.2	6118.8	17810.4	18852.7	19836.8
72.5°	1368.3	1324.7	1526.1	1679.7	2281.8	2090.8	2528.9	13680.6	14951.3	18020.1
75°	1061.0	1031.9	1204.2	1478.3	1715.0	1632.0	1598.7	8307.2	9694.2	13936.0
77.5°	840.9	801.4	959.2	1152.3	1542.7	1231.2	1164.8	3577.4	4951.9	8896.9
80°	633.3	598.0	728.8	911.5	1185.6	928.1	753.7	1459.6	1866.6	4507.6
82.5°	450.6	419.4	508.7	668.6	797.3	832.6	463.0	818.1	919.8	1737.9
85°	288.6	269.9	340.5	419.4	506.6	535.7	282.4	427.7	469.2	716.3
87.5°	157.8	128.7	182.7	195.2	234.6	213.9	135.0	155.7	168.2	259.5
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°
4410.0	0°	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0	4410.0
4418.3	2.5°	4426.6	4432.9	4453.6	4459.9	4474.4	4493.1	4505.5	4518.0	4518.0	4530.5
4484.8	5°	4486.9	4501.4	4545.0	4567.8	4605.2	4642.6	4665.4	4692.4	4709.0	4717.3
4590.7	7.5°	4603.1	4626.0	4688.3	4727.7	4792.1	4844.0	4879.3	4916.6	4924.9	4947.8
4738.1	10°	4760.9	4787.9	4858.5	4933.3	5010.1	5074.4	5107.7	5134.7	5145.0	5149.2
4927.0	12.5°	4941.6	4981.0	5072.4	5163.7	5244.7	5300.8	5309.1	5302.8	5273.8	5248.8
5159.6	15°	5163.7	5199.0	5300.8	5400.4	5479.3	5489.7	5437.8	5404.6	5369.3	5363.0
5419.1	17.5°	5429.5	5448.2	5541.6	5639.2	5645.4	5610.1	5533.3	5502.2	5468.9	5446.1
5757.5	20°	5738.9	5732.6	5799.1	5840.6	5797.0	5689.0	5572.8	5520.8	5487.6	5460.6
6172.8	22.5°	6108.4	6060.7	6052.4	6042.0	5925.7	5699.4	5541.6	5475.2	5423.3	5385.9
6752.1	25°	6646.2	6463.5	6336.8	6266.2	6004.6	5643.3	5441.9	5294.5	5196.9	5132.6
7460.1	27.5°	7318.9	7011.6	6691.9	6519.5	6004.6	5529.1	5201.1	4962.3	4802.4	4736.0
8145.3	30°	7960.5	7638.7	7167.3	6824.8	5990.1	5342.3	4812.8	4480.6	4293.8	4227.3
8730.8	32.5°	8508.6	8157.7	7671.9	7159.0	5954.8	5039.1	4331.1	3963.6	3783.0	3704.1
9310.1	35°	9017.3	8643.6	8178.5	7526.5	5861.4	4594.8	3801.7	3521.4	3320.0	3193.3
9899.7	37.5°	9538.5	9094.1	8658.1	7858.7	5693.2	4075.7	3394.7	3156.0	2919.3	2749.0
10526.8	40°	10105.3	9573.8	9171.0	8056.0	5417.0	3581.6	3079.1	2861.1	2609.9	2429.3
11249.3	42.5°	10767.6	10148.9	9741.9	8157.7	5039.1	3230.7	2873.6	2659.7	2423.0	2275.6
12023.8	45°	11459.0	10782.2	10263.1	8155.6	4617.7	3066.7	2807.1	2595.4	2333.7	2180.1
12819.0	47.5°	12183.6	11444.5	10713.6	8022.8	4252.2	3089.5	2769.8	2456.2	2167.6	2018.1
13622.5	50°	12910.3	12169.1	11149.7	7773.6	4096.5	3039.7	2630.7	2261.1	1920.6	1785.6
14376.2	52.5°	13630.8	12939.4	11525.5	7418.6	3938.7	2854.9	2452.1	2007.8	1818.8	1725.4
15154.8	55°	14355.4	13701.4	11934.5	6901.6	3544.2	2639.0	2153.1	1912.3	1737.9	1652.7
15916.8	57.5°	15082.1	14581.8	12322.8	6384.6	3048.0	2373.2	1989.1	1796.0	1656.9	1584.2
16554.2	60°	15837.9	15588.8	12723.5	5909.1	2558.0	2032.7	1868.7	1702.6	1561.4	1480.4
17166.7	62.5°	16616.5	16697.5	13037.0	5296.6	2107.4	1825.1	1760.7	1590.4	1453.4	1376.6
17673.3	65°	17401.3	17766.8	13242.5	4447.4	1708.8	1627.8	1644.4	1467.9	1328.8	1262.4
18045.0	67.5°	17993.1	18537.1	13184.4	3365.7	1401.5	1440.9	1499.1	1339.2	1208.4	1156.5
17984.8	70°	18059.5	18445.7	12611.4	2304.7	1173.1	1258.2	1337.1	1212.6	1077.6	1040.2
17137.7	72.5°	17175.0	17199.9	11014.7	1505.3	992.5	1104.6	1166.9	1083.8	953.0	915.6
14992.9	75°	14855.8	14224.6	8087.1	992.5	830.5	948.9	1007.0	948.9	822.2	830.5
11218.2	77.5°	11255.5	10074.1	4910.4	705.9	693.5	797.3	876.2	834.7	726.7	816.0
5641.3	80°	5799.1	5450.2	2190.5	527.4	548.1	637.4	720.5	666.5	575.1	548.1
1260.3	82.5°	1328.8	1544.8	863.7	377.9	396.6	458.9	550.2	500.4	413.2	348.8
525.3	85°	465.1	508.7	382.0	236.7	232.5	286.5	373.7	334.3	280.3	224.2
222.2	87.5°	147.4	193.1	143.3	95.5	99.7	128.7	172.3	157.8	130.8	85.1
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°  
4410.0  
4530.5  
4721.5  
4939.5  
5138.8  
5248.8  
5363.0  
5448.2  
5462.7  
5398.3  
5157.5  
4769.2  
4266.8  
3743.5  
3234.9  
2794.7  
2464.6  
2304.7  
2205.0  
2038.9  
1793.9  
1725.4  
1644.4  
1571.7  
1474.2  
1374.5  
1260.3  
1158.6  
1042.3  
913.6  
801.4  
718.4  
500.4  
344.7  
236.7  
89.3  
0.0

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