

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: P941857

Luminaire Tested: **GALN-SB5C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941857
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-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34016 lumens
Efficiency: N/A
Efficacy: 136.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

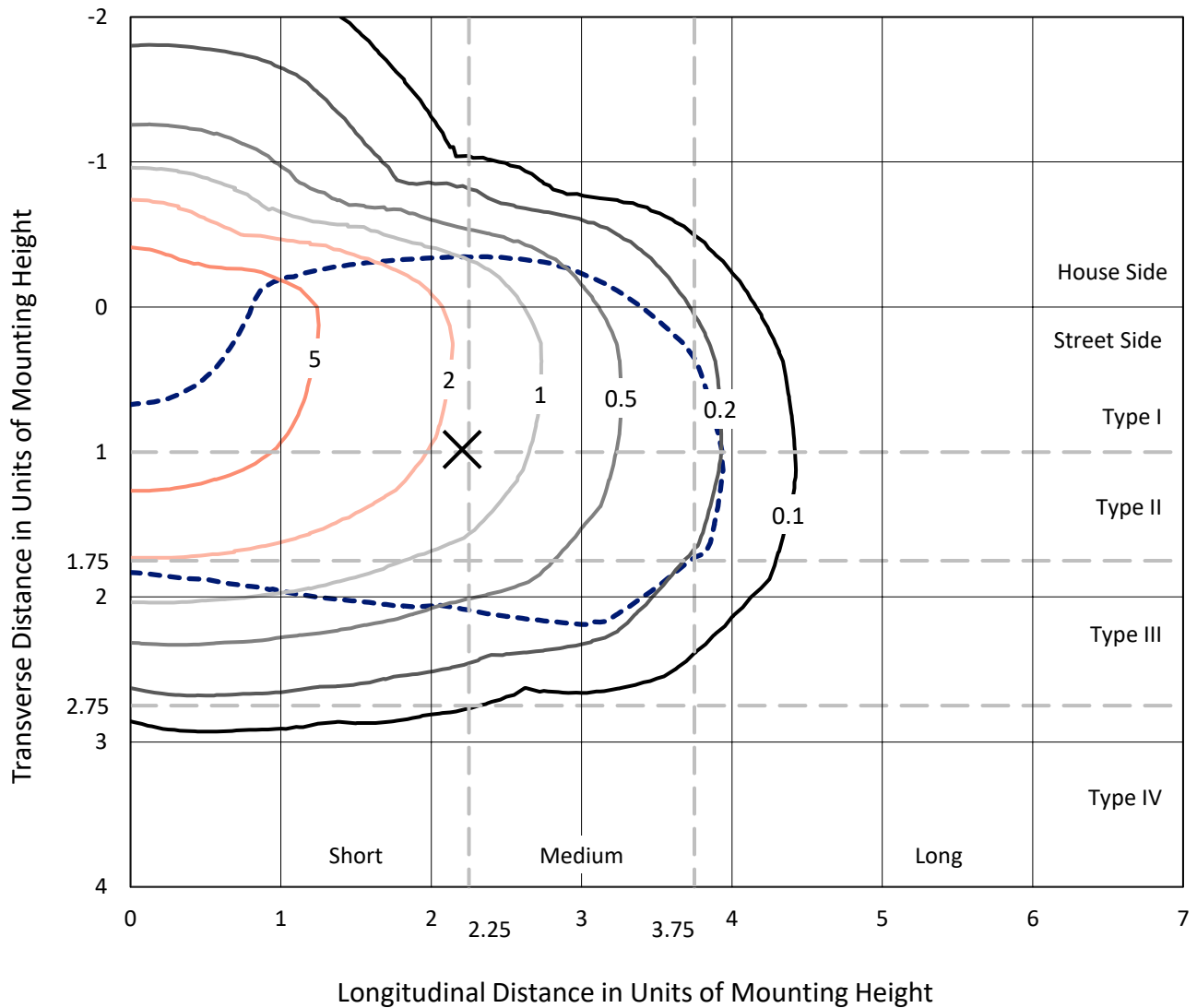
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

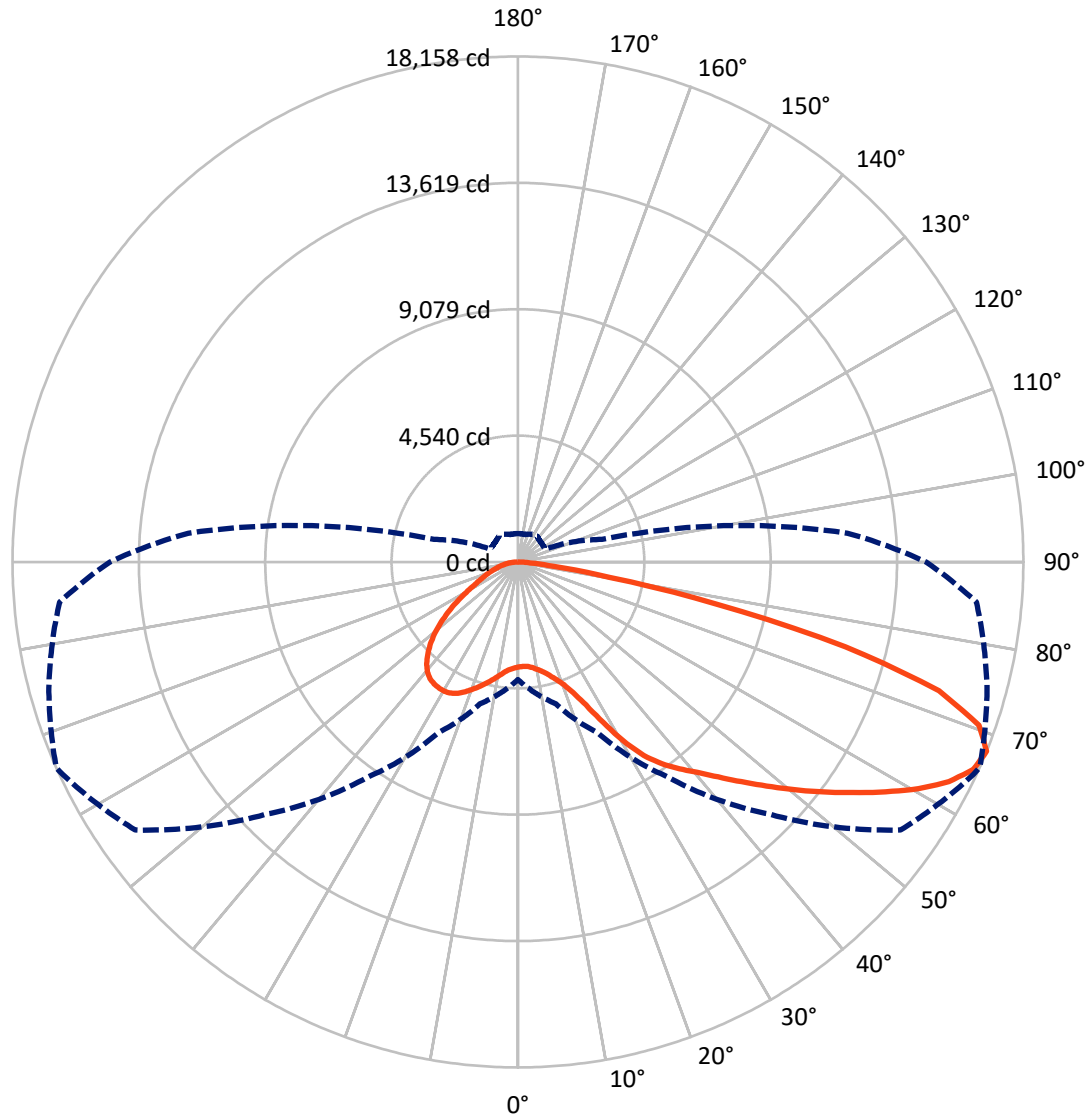
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8458.0	0.0	8458.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	25558.0	0.0	25558.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	34016.0	0.0	34016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.1	1.1
10°-20°	1235.8	3.6
20°-30°	2382.0	7.0
30°-40°	4176.6	12.3
40°-50°	6209.2	18.3
50°-60°	7870.8	23.1
60°-70°	7701.3	22.6
70°-80°	3673.6	10.8
80°-90°	392.6	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°	34016.0	100.0
0°-180°	34016.0	100.0

Coefficient of Utilization



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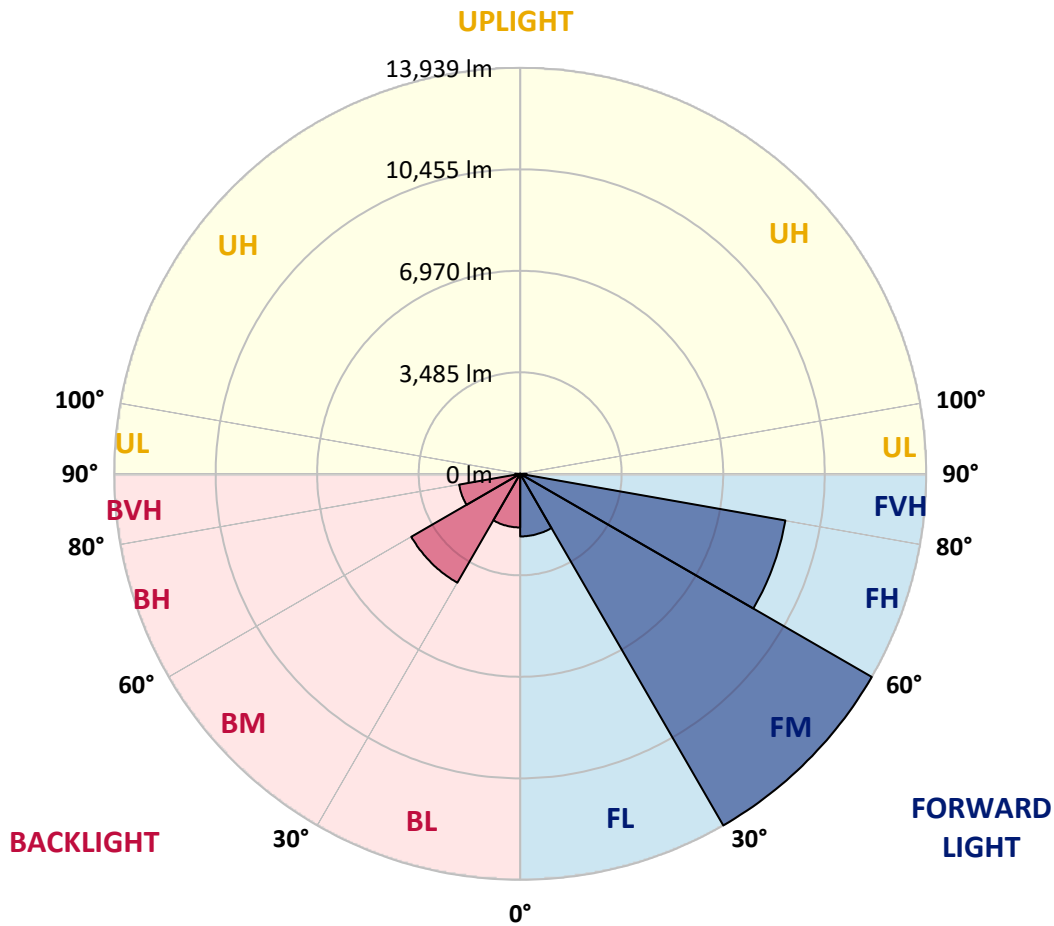
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2149.5	6.3			
FM (30°-60°)	13939.5	41.0			
FH (60°-80°)	9246.5	27.2			G4/12000
FVH (80°-90°)	222.6	0.7			G2/225
BL (0°-30°)	1842.5	5.4	B3/2500		
BM (30°-60°)	4317.0	12.7	B3/5000		
BH (60°-80°)	2128.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	170.0	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°	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8
2.5°	3733.5	3755.0	3749.6	3740.7	3738.9	3742.4	3747.8	3753.2	3751.4	3760.3
5°	3722.8	3744.2	3742.4	3742.4	3749.6	3763.9	3772.8	3781.8	3772.8	3783.5
7.5°	3729.9	3746.0	3753.2	3760.3	3778.2	3805.0	3826.4	3846.1	3835.4	3847.9
10°	3821.1	3833.6	3840.7	3840.7	3853.2	3883.6	3905.1	3940.8	3931.9	3951.5
12.5°	3987.3	3999.8	3999.8	3992.7	4001.6	4021.2	4028.4	4067.7	4051.6	4083.8
15°	4191.0	4216.1	4196.4	4183.9	4187.5	4207.1	4205.3	4235.7	4219.6	4246.4
17.5°	4416.2	4448.4	4416.2	4414.4	4407.3	4428.7	4430.5	4457.3	4428.7	4448.4
20°	4682.5	4727.2	4700.4	4709.3	4693.2	4702.2	4711.1	4750.4	4705.8	4720.1
22.5°	5057.8	5111.5	5082.9	5116.8	5106.1	5098.9	5097.2	5166.9	5097.2	5102.5
25°	5604.7	5669.1	5619.0	5665.5	5665.5	5688.7	5715.5	5804.9	5688.7	5654.8
27.5°	6412.5	6476.9	6378.6	6407.2	6398.3	6455.4	6426.8	6648.5	6523.4	6468.0
30°	7384.8	7499.2	7313.3	7306.2	7297.2	7388.4	7429.5	7576.0	7449.1	7393.7
32.5°	8435.7	8555.4	8333.8	8269.5	8235.5	8290.9	8257.0	8374.9	8287.3	8201.6
35°	9547.3	9665.3	9454.4	9329.3	9193.5	9077.3	8955.8	8986.1	8903.9	8773.5
37.5°	10598.2	10814.5	10591.1	10457.0	10206.8	9979.8	9640.3	9499.1	9422.2	9302.5
40°	11668.8	11792.1	11622.3	11507.9	11236.3	10880.6	10337.3	10038.8	9935.2	9819.0
42.5°	12456.9	12574.9	12483.7	12405.1	12192.4	11779.6	11077.2	10703.7	10553.5	10423.1
45°	13082.5	13170.0	13112.8	13141.4	13050.3	12650.0	11843.9	11416.8	11261.3	11102.2
47.5°	13334.5	13427.4	13518.5	13688.3	13843.8	13548.9	12667.8	12188.8	12024.4	11861.8
50°	13305.9	13400.6	13665.1	14026.1	14508.7	14410.4	13536.4	13011.0	12859.1	12673.2
52.5°	13077.1	13184.3	13523.9	14124.4	14892.9	15055.6	14421.1	13859.9	13716.9	13495.3
55°	12476.6	12540.9	13050.3	13901.0	14984.1	15505.9	15287.9	14764.2	14621.3	14312.1
57.5°	11363.2	11456.1	12197.8	13298.7	14755.3	15811.5	16049.2	15715.0	15577.4	15132.4
60°	9910.1	10058.5	10907.4	12287.1	14172.7	15809.8	16740.9	16649.8	16535.4	15940.2
62.5°	8265.9	8437.5	9254.2	10857.4	13153.9	15361.2	17173.4	17432.6	17373.6	16685.5
65°	6348.2	6466.2	7279.4	9007.6	11568.7	14397.9	17223.5	17966.9	17977.7	17252.0
67.5°	4226.8	4566.4	5272.3	6759.3	9445.5	12823.3	16783.8	18054.5	18158.2	17446.9
70°	2062.5	2509.3	3200.9	4393.0	6759.3	10408.8	15634.6	17336.0	17566.6	16878.5
72.5°	856.1	1000.8	1377.9	2167.9	3880.1	7023.8	13325.5	15388.0	15815.1	14955.5
75°	577.3	625.5	788.2	1111.7	1767.6	3463.6	9609.9	11474.0	12162.0	11295.2
77.5°	445.0	475.4	573.7	777.4	1050.9	1310.0	5143.6	6914.8	7270.4	6730.7
80°	350.3	373.5	428.9	566.5	745.3	700.6	1753.3	3133.0	3338.5	2800.6
82.5°	303.8	312.8	307.4	384.3	495.1	409.3	575.5	1156.3	1276.1	925.8
85°	219.8	244.8	255.6	237.7	262.7	207.3	235.9	409.3	450.4	402.1
87.5°	89.4	132.3	162.6	153.7	96.5	59.0	73.3	119.7	137.6	150.1
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°
3772.8	0°	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8	3772.8
3774.6	2.5°	3776.4	3788.9	3797.8	3808.6	3815.7	3826.4	3847.9	3860.4	3862.2	3871.1
3803.2	5°	3810.4	3828.2	3847.9	3876.5	3908.7	3935.5	3976.6	4005.2	4015.9	4024.8
3872.9	7.5°	3883.6	3908.7	3944.4	3994.4	4040.9	4076.7	4126.7	4160.7	4194.6	4207.1
3983.7	10°	3992.7	4028.4	4080.2	4148.1	4198.2	4244.7	4296.5	4325.1	4359.0	4373.3
4116.0	12.5°	4128.5	4166.0	4233.9	4328.6	4375.1	4407.3	4425.2	4418.0	4425.2	4437.7
4275.0	15°	4284.0	4325.1	4401.9	4503.8	4536.0	4507.4	4468.1	4432.3	4426.9	4430.5
4468.1	17.5°	4468.1	4498.4	4587.8	4673.6	4650.3	4532.4	4446.6	4389.4	4360.8	4351.9
4714.7	20°	4725.4	4725.4	4798.7	4852.3	4696.8	4496.6	4362.6	4269.7	4210.7	4185.7
5050.7	22.5°	5038.2	5009.6	5056.0	5018.5	4687.9	4396.6	4210.7	4049.8	3960.5	3924.7
5520.7	25°	5434.9	5401.0	5388.5	5156.1	4623.5	4237.5	3935.5	3740.7	3662.0	3642.4
6198.1	27.5°	6033.7	5947.9	5785.2	5231.2	4505.6	3987.3	3613.8	3433.3	3388.6	3390.4
7068.5	30°	6830.8	6659.2	6260.6	5243.7	4312.6	3633.4	3284.9	3156.2	3134.8	3143.7
7799.4	32.5°	7568.9	7406.2	6746.8	5186.5	4015.9	3286.7	2990.0	2904.2	2872.1	2882.8
8357.0	35°	8147.9	8103.3	7197.1	5106.1	3651.3	2961.4	2725.5	2652.2	2589.7	2575.4
8882.5	37.5°	8694.8	8677.0	7534.9	4993.5	3290.3	2730.9	2512.8	2416.3	2325.2	2275.1
9463.3	40°	9295.3	9277.5	7756.5	4820.1	2970.4	2530.7	2321.6	2194.7	2082.1	1991.0
10121.0	42.5°	9970.9	9865.5	7862.0	4571.7	2698.7	2360.9	2166.1	1994.5	1846.2	1762.2
10864.5	45°	10709.0	10471.3	7860.2	4255.4	2469.9	2205.4	1999.9	1756.8	1619.2	1540.6
11627.7	47.5°	11491.8	11050.4	7763.7	3905.1	2248.3	2033.9	1742.5	1556.7	1465.5	1417.3
12456.9	50°	12299.7	11591.9	7599.3	3503.0	2021.3	1839.1	1581.7	1454.8	1385.1	1340.4
13279.1	52.5°	13059.2	12083.4	7400.9	3047.2	1790.8	1649.6	1510.2	1411.9	1338.6	1288.6
14076.2	55°	13765.2	12507.0	7120.3	2580.7	1603.1	1522.7	1476.2	1394.0	1310.0	1251.1
14885.8	57.5°	14392.5	12782.2	6636.0	2142.9	1469.1	1435.1	1440.5	1363.6	1267.1	1217.1
15682.9	60°	14914.4	12984.2	5919.3	1737.2	1360.1	1349.4	1385.1	1306.5	1193.9	1136.7
16356.6	62.5°	15227.1	12980.6	5040.0	1422.6	1267.1	1270.7	1311.8	1235.0	1120.6	1067.0
16708.7	65°	15200.3	12662.5	4074.9	1217.1	1177.8	1181.4	1235.0	1156.3	1059.8	1027.7
16531.8	67.5°	14662.4	11886.8	3125.8	1083.1	1079.5	1095.6	1158.1	1102.7	1022.3	1018.7
15477.3	70°	13205.8	10276.5	2251.9	975.8	977.6	1000.8	1083.1	1068.8	1002.6	1009.8
13012.8	72.5°	10589.3	7835.2	1512.0	863.2	865.0	902.5	1011.6	1041.9	983.0	1077.7
9232.8	75°	7052.4	4886.3	972.2	743.5	745.3	793.5	949.0	990.1	929.4	1074.1
4804.1	77.5°	3388.6	2196.5	704.2	625.5	625.5	670.2	820.3	886.5	791.7	834.6
1544.2	80°	1170.6	825.7	554.0	504.0	493.3	523.7	691.7	768.5	682.7	629.1
504.0	82.5°	461.1	428.9	445.0	391.4	355.7	375.3	538.0	634.5	502.2	454.0
284.2	85°	264.5	278.8	314.6	259.1	205.5	230.6	395.0	455.7	378.9	334.2
92.9	87.5°	71.5	98.3	144.8	134.0	92.9	98.3	187.7	252.0	218.0	168.0
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°
3772.8
3869.3
4023.0
4208.9
4380.5
4441.2
4443.0
4364.4
4180.3
3919.4
3645.9
3395.7
3174.1
2897.1
2586.1
2276.9
1999.9
1767.6
1537.0
1406.5
1324.3
1267.1
1227.8
1184.9
1111.7
1050.9
1025.9
1024.1
1008.0
1092.0
1083.1
764.9
589.8
452.2
341.4
173.4
0.0

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