

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: P944447

Luminaire Tested: **GALN-SB9B-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944447
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-SB9B-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31241 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

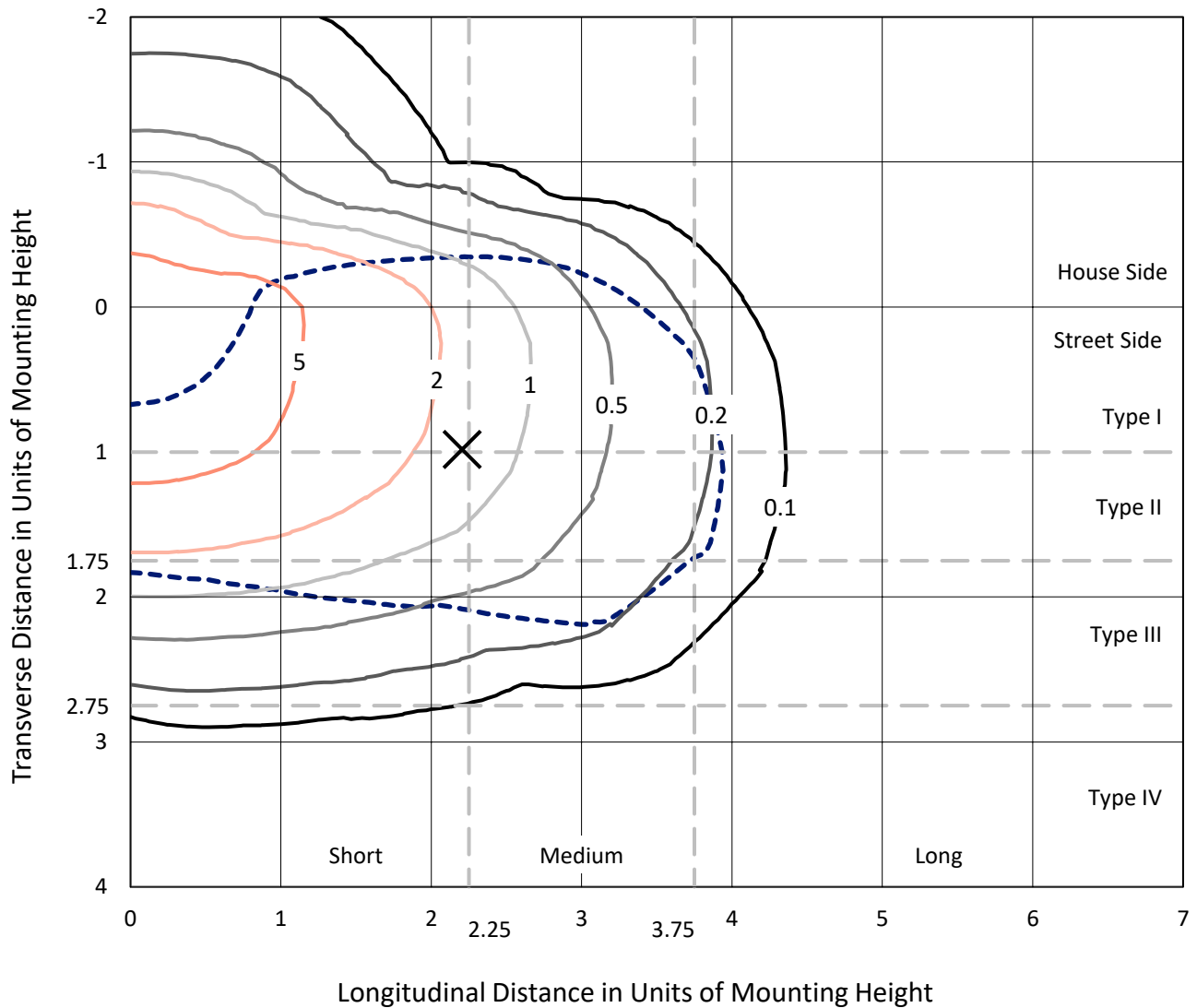
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944447
 CATALOG NUMBER: GALN-SB9B-927-U-T3

Iso-Footcandle Lines of Horizontal Illumination

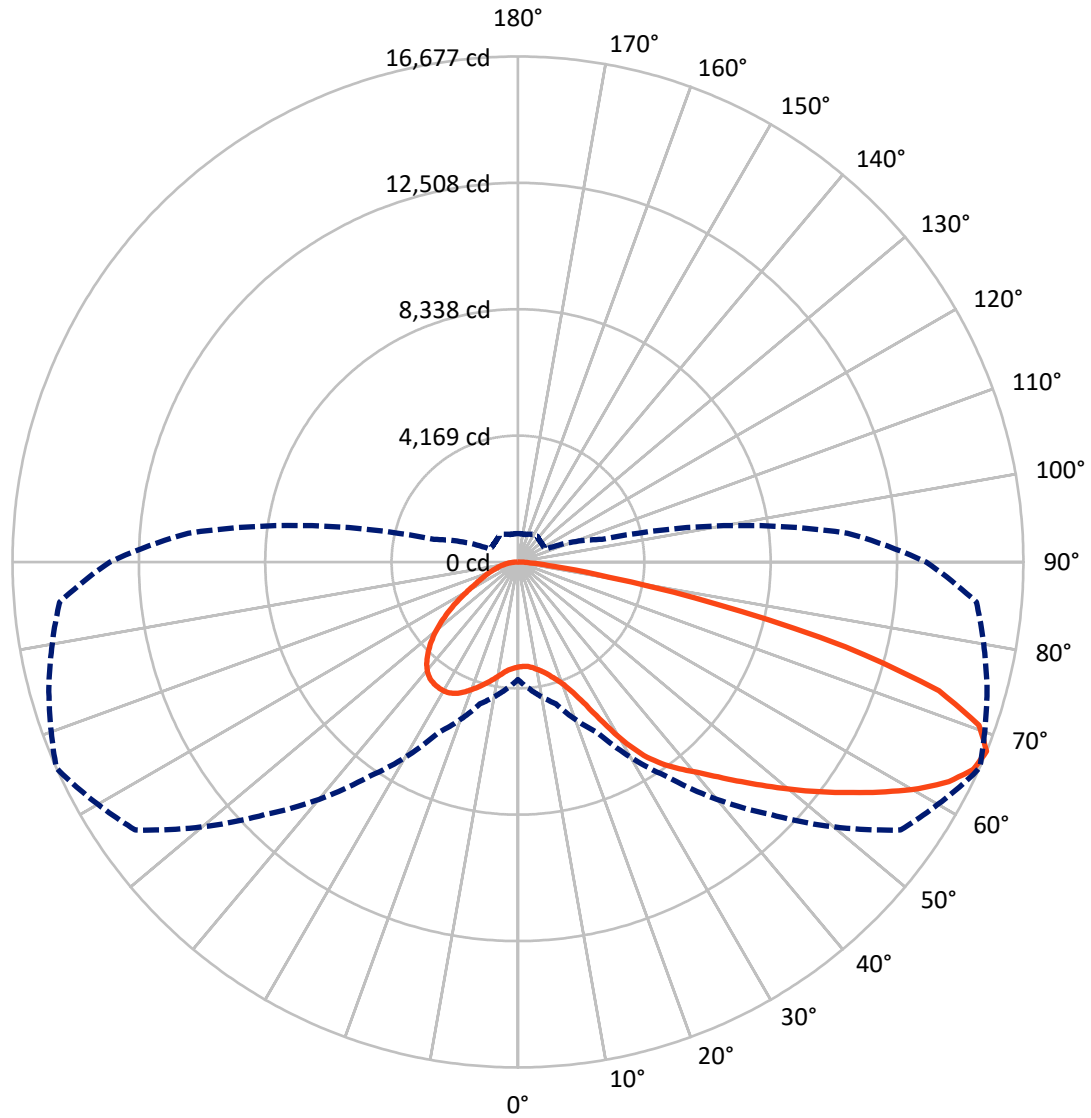
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

REPORT NUMBER: P944447
CATALOG NUMBER: GALN-SB9B-927-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P944447

CATALOG NUMBER: GALN-SB9B-927-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7768.0	0.0	7768.0
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	23473.0	0.0	23473.0
	% Fixture	75.1	0.0	75.1
Total	Lumens	31241.0	0.0	31241.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.5	1.1
10°-20°	1135.0	3.6
20°-30°	2187.7	7.0
30°-40°	3835.9	12.3
40°-50°	5702.6	18.3
50°-60°	7228.7	23.1
60°-70°	7073.1	22.6
70°-80°	3373.9	10.8
80°-90°	360.6	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°	31241.0	100.0
0°-180°	31241.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944447

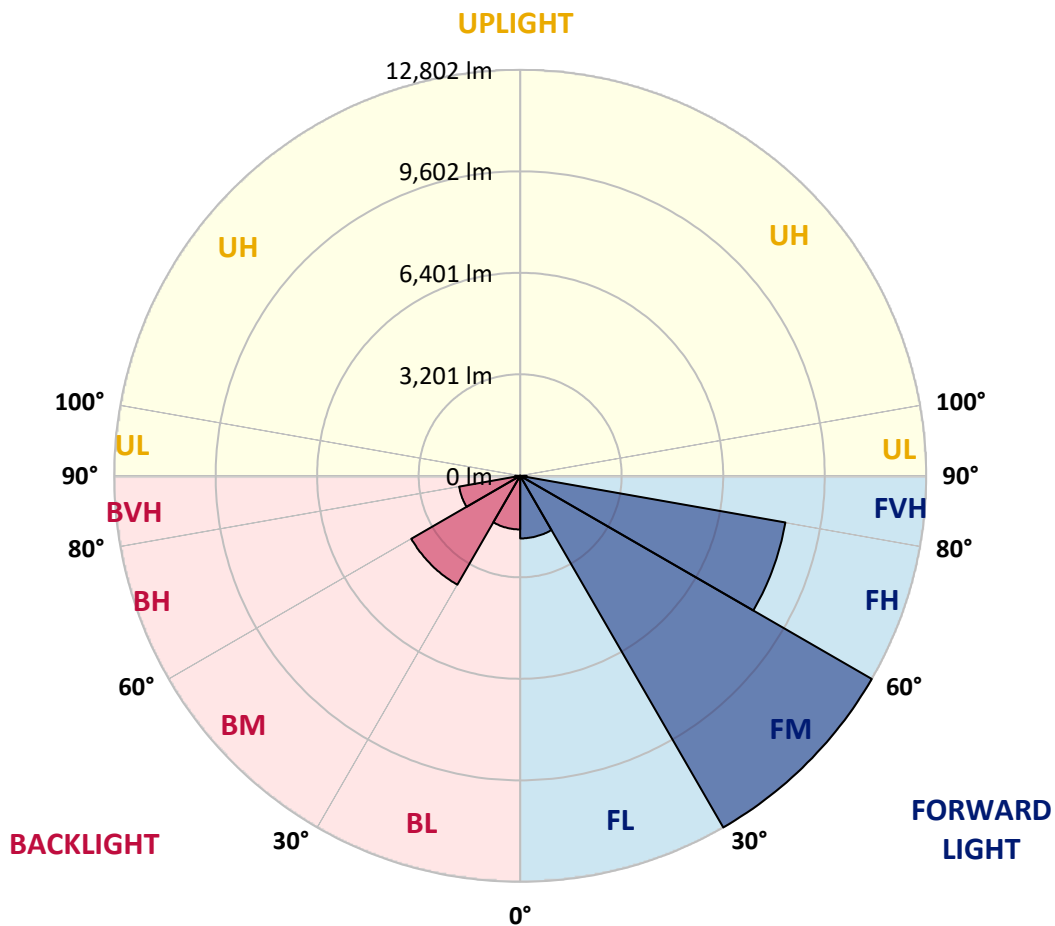
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1974.1	6.3			
FM (30°-60°)	12802.3	41.0			
FH (60°-80°)	8492.2	27.2			G4/12000
FVH (80°-90°)	204.4	0.7			G2/225
BL (0°-30°)	1692.1	5.4	B3/2500		
BM (30°-60°)	3964.9	12.7	B3/5000		
BH (60°-80°)	1954.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	156.1	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



REPORT NUMBER: P944447

CATALOG NUMBER: GALN-SB9B-927-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0
2.5°	3428.9	3448.6	3443.7	3435.5	3433.9	3437.1	3442.1	3447.0	3445.3	3453.5
5°	3419.1	3438.8	3437.1	3437.1	3443.7	3456.8	3465.0	3473.2	3465.0	3474.9
7.5°	3425.6	3440.4	3447.0	3453.5	3470.0	3494.6	3514.3	3532.3	3522.5	3534.0
10°	3509.4	3520.8	3527.4	3527.4	3538.9	3566.8	3586.5	3619.3	3611.1	3629.2
12.5°	3662.0	3673.5	3673.5	3666.9	3675.1	3693.2	3699.8	3735.9	3721.1	3750.6
15°	3849.1	3872.1	3854.1	3842.6	3845.8	3863.9	3862.3	3890.2	3875.4	3900.0
17.5°	4056.0	4085.5	4056.0	4054.3	4047.7	4067.4	4069.1	4093.7	4067.4	4085.5
20°	4300.5	4341.6	4316.9	4325.1	4310.4	4318.6	4326.8	4362.9	4321.9	4335.0
22.5°	4645.2	4694.5	4668.2	4699.4	4689.5	4683.0	4681.3	4745.3	4681.3	4686.3
25°	5147.5	5206.6	5160.6	5203.3	5203.3	5224.6	5249.3	5331.3	5224.6	5193.5
27.5°	5889.4	5948.5	5858.2	5884.5	5876.3	5928.8	5902.5	6106.1	5991.2	5940.3
30°	6782.4	6887.4	6716.7	6710.1	6701.9	6785.6	6823.4	6958.0	6841.4	6790.6
32.5°	7747.5	7857.5	7653.9	7594.9	7563.7	7614.6	7583.4	7691.7	7611.3	7532.5
35°	8768.5	8876.8	8683.1	8568.2	8443.5	8336.8	8225.2	8253.1	8177.6	8057.7
37.5°	9733.6	9932.2	9727.1	9604.0	9374.2	9165.7	8853.8	8724.2	8653.6	8543.6
40°	10716.8	10830.1	10674.2	10569.1	10319.6	9993.0	9494.0	9219.9	9124.7	9018.0
42.5°	11440.7	11549.0	11465.3	11393.1	11197.8	10818.6	10173.5	9830.5	9692.6	9572.8
45°	12015.2	12095.6	12043.1	12069.4	11985.7	11618.0	10877.7	10485.4	10342.6	10196.5
47.5°	12246.6	12332.0	12415.7	12571.6	12714.4	12443.6	11634.4	11194.5	11043.5	10894.1
50°	12220.4	12307.4	12550.3	12881.9	13325.1	13234.8	12432.1	11949.5	11810.0	11639.3
52.5°	12010.3	12108.8	12420.6	12972.2	13678.0	13827.3	13244.6	12729.2	12597.9	12394.4
55°	11458.8	11517.9	11985.7	12767.0	13761.7	14241.0	14040.7	13559.8	13428.5	13144.5
57.5°	10436.2	10521.5	11202.7	12213.8	13551.6	14521.7	14740.0	14433.0	14306.6	13897.9
60°	9101.7	9237.9	10017.6	11284.8	13016.5	14520.0	15375.2	15291.5	15186.4	14639.8
62.5°	7591.6	7749.1	8499.3	9971.6	12080.9	14108.0	15772.4	16010.4	15956.3	15324.3
65°	5830.3	5938.7	6685.5	8272.8	10624.9	13223.3	15818.4	16501.2	16511.1	15844.6
67.5°	3882.0	4193.8	4842.2	6207.9	8674.9	11777.2	15414.6	16581.6	16676.8	16023.6
70°	1894.2	2304.6	2939.8	4034.6	6207.9	9559.6	14359.2	15921.8	16133.5	15501.6
72.5°	786.2	919.2	1265.5	1991.0	3563.5	6450.8	12238.4	14132.6	14524.9	13735.4
75°	530.2	574.5	723.9	1021.0	1623.4	3181.1	8825.9	10537.9	11169.9	10373.8
77.5°	408.7	436.6	526.9	714.0	965.2	1203.2	4724.0	6350.7	6677.3	6181.6
80°	321.7	343.1	393.9	520.3	684.5	643.4	1610.2	2877.4	3066.2	2572.1
82.5°	279.0	287.2	282.3	352.9	454.7	375.9	528.5	1062.0	1172.0	850.3
85°	201.9	224.9	234.7	218.3	241.3	190.4	216.7	375.9	413.6	369.3
87.5°	82.1	121.5	149.4	141.2	88.6	54.2	67.3	110.0	126.4	137.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944447
 CATALOG NUMBER: GALN-SB9B-927-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3465.0	0°	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0	3465.0
3466.7	2.5°	3468.3	3479.8	3488.0	3497.9	3504.4	3514.3	3534.0	3545.5	3547.1	3555.3
3492.9	5°	3499.5	3515.9	3534.0	3560.2	3589.8	3614.4	3652.2	3678.4	3688.3	3696.5
3557.0	7.5°	3566.8	3589.8	3622.6	3668.6	3711.3	3744.1	3790.0	3821.2	3852.4	3863.9
3658.7	10°	3666.9	3699.8	3747.4	3809.7	3855.7	3898.4	3946.0	3972.2	4003.4	4016.6
3780.2	12.5°	3791.7	3826.2	3888.5	3975.5	4018.2	4047.7	4064.2	4057.6	4064.2	4075.6
3926.3	15°	3934.5	3972.2	4042.8	4136.4	4165.9	4139.7	4103.6	4070.7	4065.8	4069.1
4103.6	17.5°	4103.6	4131.5	4213.5	4292.3	4271.0	4162.6	4083.9	4031.3	4005.1	3996.9
4330.1	20°	4339.9	4339.9	4407.2	4456.5	4313.7	4129.8	4006.7	3921.4	3867.2	3844.2
4638.7	22.5°	4627.2	4600.9	4643.6	4609.1	4305.4	4037.9	3867.2	3719.5	3637.4	3604.6
5070.3	25°	4991.6	4960.4	4948.9	4735.5	4246.4	3891.8	3614.4	3435.5	3363.3	3345.2
5692.4	27.5°	5541.4	5462.6	5313.3	4804.4	4138.0	3662.0	3319.0	3153.2	3112.1	3113.8
6491.8	30°	6273.5	6115.9	5749.9	4815.9	3960.7	3337.0	3016.9	2898.7	2879.1	2887.3
7163.2	32.5°	6951.4	6802.0	6196.4	4763.4	3688.3	3018.6	2746.1	2667.3	2637.8	2647.6
7675.3	35°	7483.2	7442.2	6610.0	4689.5	3353.4	2719.8	2503.2	2435.9	2378.4	2365.3
8157.9	37.5°	7985.5	7969.1	6920.2	4586.1	3021.9	2508.1	2307.8	2219.2	2135.5	2089.5
8691.3	40°	8537.0	8520.6	7123.8	4426.9	2728.0	2324.3	2132.2	2015.7	1912.3	1828.5
9295.4	42.5°	9157.5	9060.6	7220.6	4198.8	2478.5	2168.3	1989.4	1831.8	1695.6	1618.4
9978.2	45°	9835.4	9617.1	7219.0	3908.2	2268.4	2025.5	1836.8	1613.5	1487.1	1414.9
10679.1	47.5°	10554.3	10148.9	7130.3	3586.5	2064.9	1867.9	1600.4	1429.7	1346.0	1301.6
11440.7	50°	11296.3	10646.3	6979.3	3217.2	1856.4	1689.0	1452.7	1336.1	1272.1	1231.1
12195.8	52.5°	11993.9	11097.6	6797.1	2798.6	1644.7	1515.0	1387.0	1296.7	1229.4	1183.5
12927.8	55°	12642.2	11486.7	6539.4	2370.2	1472.4	1398.5	1355.8	1280.3	1203.2	1149.0
13671.4	57.5°	13218.4	11739.4	6094.6	1968.1	1349.2	1318.1	1323.0	1252.4	1163.8	1117.8
14403.5	60°	13697.7	11924.9	5436.4	1595.5	1249.1	1239.3	1272.1	1199.9	1096.5	1043.9
15022.3	62.5°	13984.9	11921.6	4628.8	1306.6	1163.8	1167.1	1204.8	1134.2	1029.2	979.9
15345.6	65°	13960.3	11629.5	3742.4	1117.8	1081.7	1085.0	1134.2	1062.0	973.4	943.8
15183.1	67.5°	13466.2	10917.1	2870.8	994.7	991.4	1006.2	1063.6	1012.8	938.9	935.6
14214.7	70°	12128.5	9438.2	2068.2	896.2	897.9	919.2	994.7	981.6	920.8	927.4
11951.2	72.5°	9725.4	7196.0	1388.6	792.8	794.4	828.9	929.0	956.9	902.8	989.8
8479.6	75°	6477.0	4487.6	892.9	682.8	684.5	728.8	871.6	909.3	853.5	986.5
4412.1	77.5°	3112.1	2017.3	646.7	574.5	574.5	615.5	753.4	814.1	727.1	766.5
1418.2	80°	1075.1	758.3	508.8	462.9	453.0	480.9	635.2	705.8	627.0	577.8
462.9	82.5°	423.5	393.9	408.7	359.5	326.6	344.7	494.1	582.7	461.2	416.9
261.0	85°	242.9	256.1	288.9	238.0	188.8	211.7	362.8	418.6	348.0	306.9
85.4	87.5°	65.7	90.3	133.0	123.1	85.4	90.3	172.3	231.4	200.3	154.3
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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<u>180°</u>
3465.0
3553.7
3694.8
3865.5
4023.1
4078.9
4080.6
4008.4
3839.3
3599.6
3348.5
3118.7
2915.2
2660.7
2375.1
2091.2
1836.8
1623.4
1411.6
1291.8
1216.3
1163.8
1127.7
1088.3
1021.0
965.2
942.2
940.5
925.8
1002.9
994.7
702.5
541.7
415.3
313.5
159.2
0.0

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