

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: P955180

Luminaire Tested: **GALN-SB8A-950-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-950-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25904 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

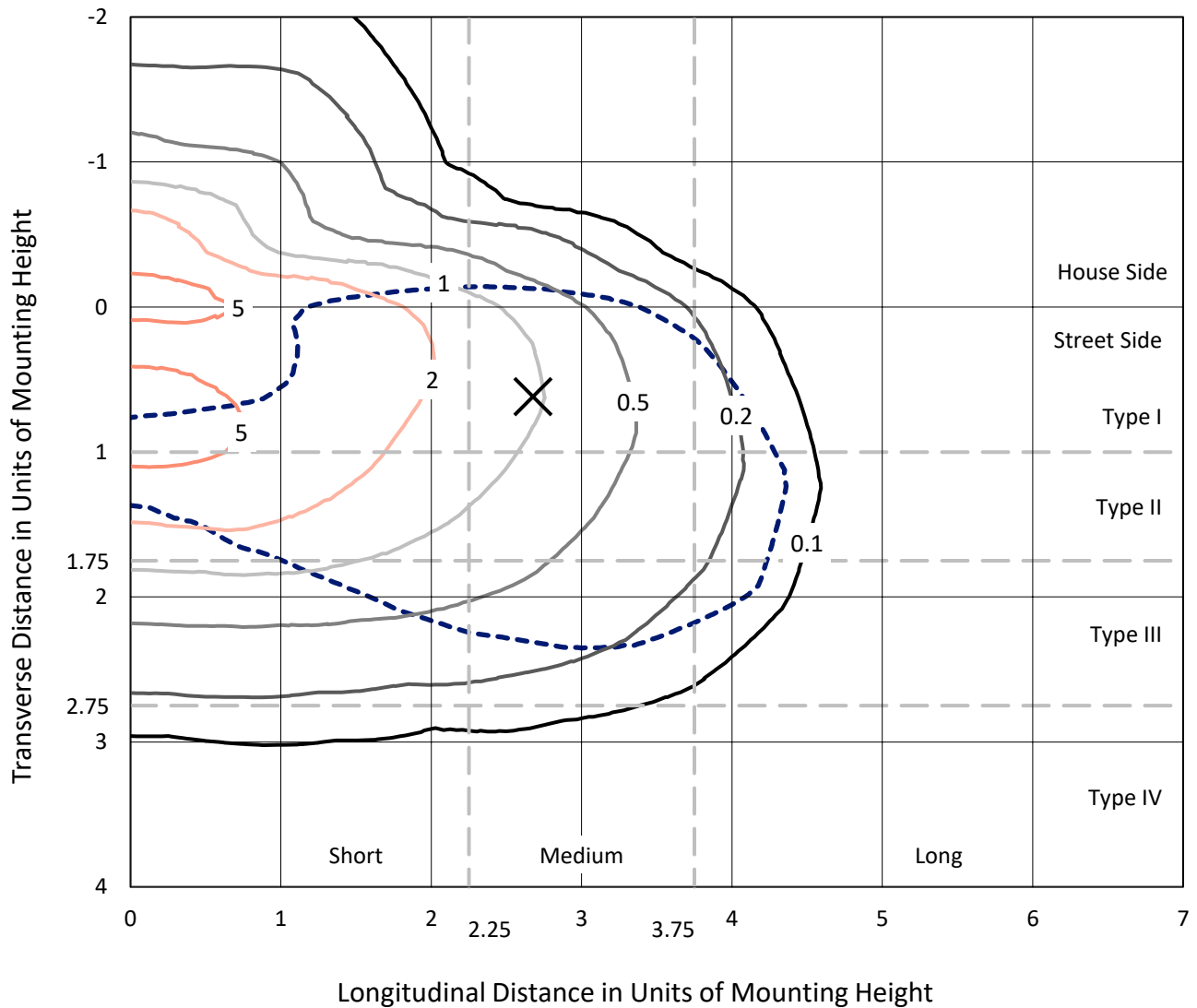
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

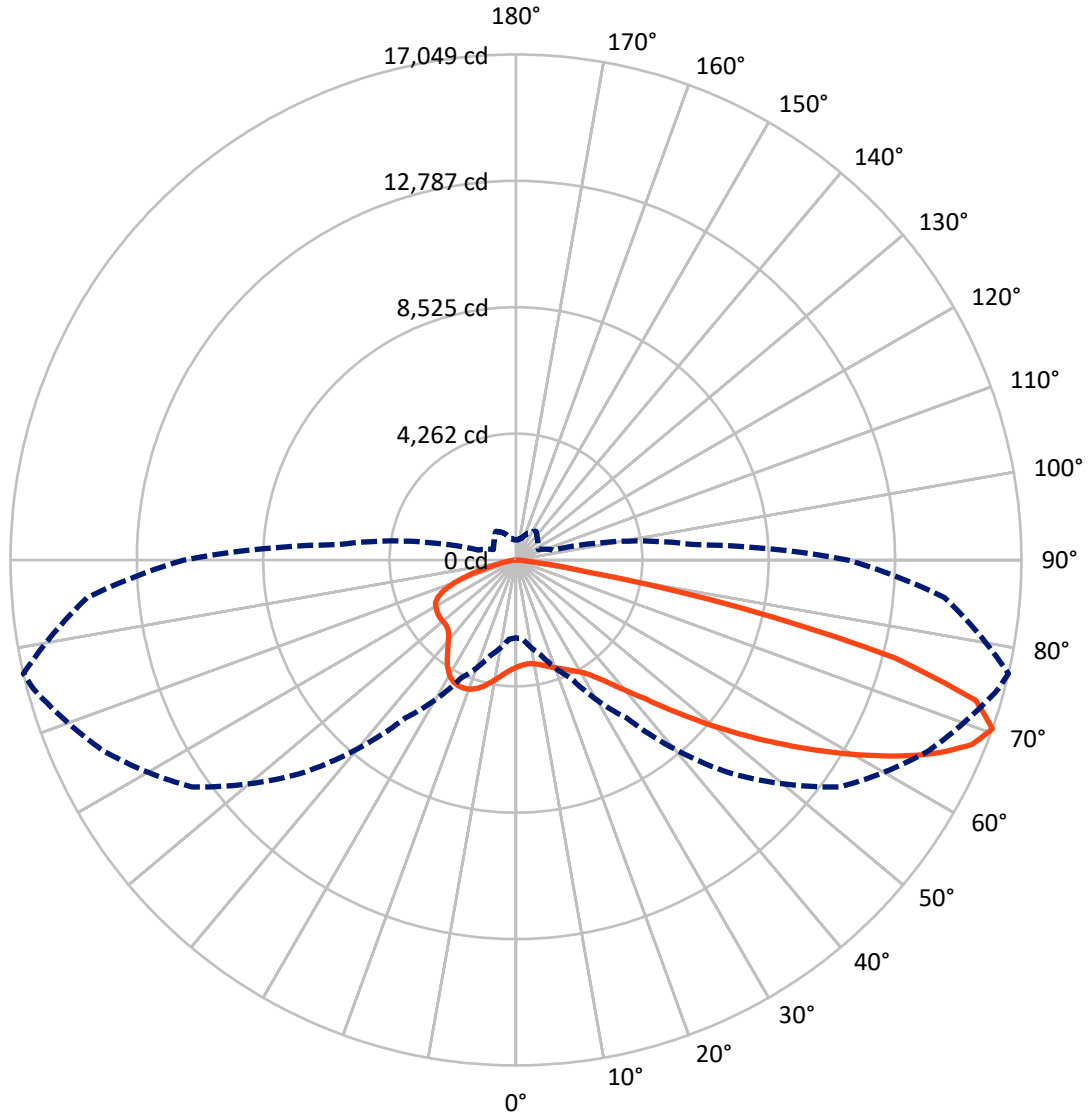
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5672.6	0.0	5672.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	20231.4	0.0	20231.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	25904.0	0.0	25904.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.7	1.3
10°-20°	994.7	3.8
20°-30°	1701.1	6.6
30°-40°	2735.6	10.6
40°-50°	4271.0	16.5
50°-60°	5705.0	22.0
60°-70°	6080.7	23.5
70°-80°	3743.2	14.5
80°-90°	328.0	1.3
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°	25904.0	100.0
0°-180°	25904.0	100.0



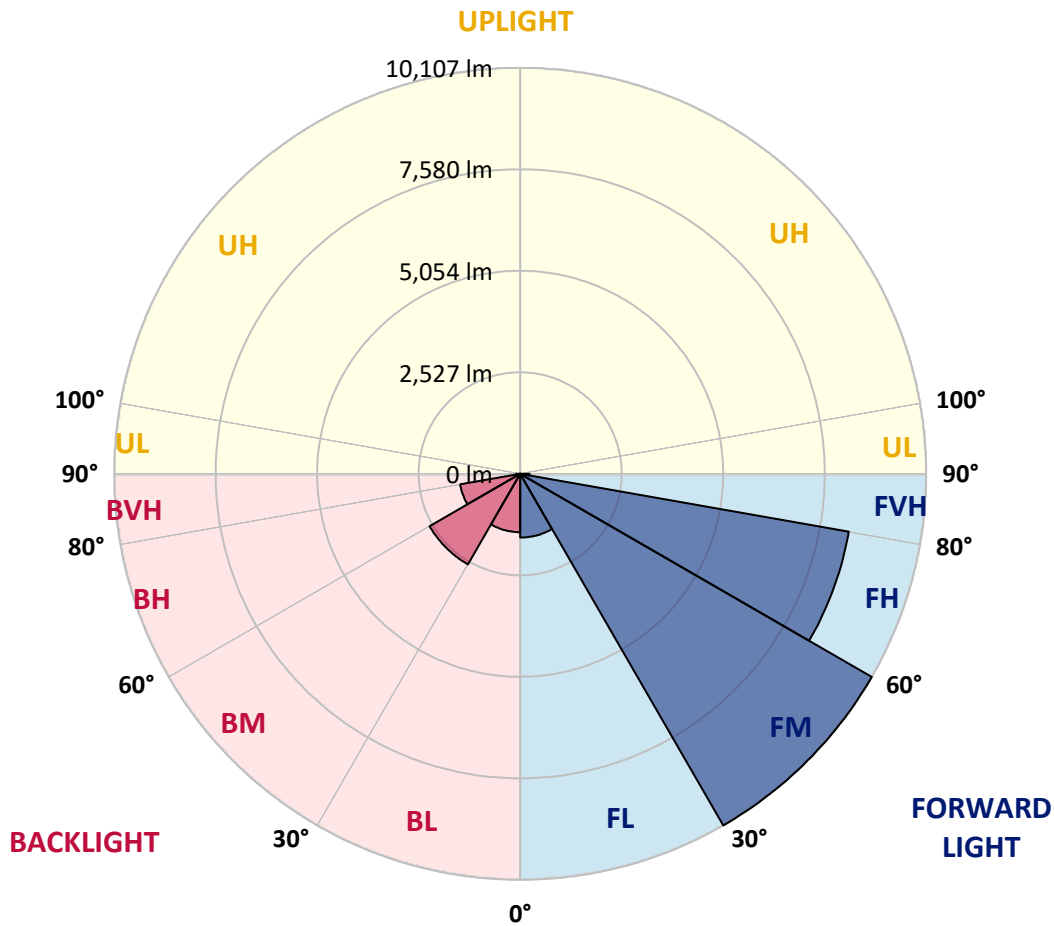
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.0	6.1			
FM (30°-60°)	10107.2	39.0			
FH (60°-80°)	8307.8	32.1			G4/12000
FVH (80°-90°)	229.4	0.9			G3/500
BL (0°-30°)	1453.5	5.6	B3/2500		
BM (30°-60°)	2604.4	10.1	B3/5000		
BH (60°-80°)	1516.0	5.9	B3/2500		G3/2500
BVH (80°-90°)	98.7	0.4			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8
2.5°	3331.3	3329.9	3347.2	3352.5	3384.3	3406.9	3449.3	3494.4	3552.8	3559.5
5°	3138.9	3138.9	3158.8	3180.0	3221.2	3266.3	3331.3	3409.5	3510.4	3526.3
7.5°	2975.7	2986.3	3003.6	3044.7	3092.5	3157.5	3257.0	3368.4	3501.1	3526.3
10°	2844.4	2856.3	2877.5	2910.7	2982.4	3072.6	3202.6	3345.9	3523.6	3563.4
12.5°	2803.3	2815.2	2827.1	2852.3	2918.7	3024.8	3180.0	3356.5	3578.0	3617.8
15°	2898.8	2913.4	2904.1	2897.4	2931.9	3028.8	3190.6	3394.9	3645.7	3702.7
17.5°	3119.0	3124.3	3103.1	3040.7	3035.4	3087.2	3241.1	3448.0	3730.6	3792.9
20°	3474.5	3465.3	3421.5	3298.1	3227.8	3217.2	3327.3	3527.6	3818.2	3884.5
22.5°	3957.5	3946.8	3859.3	3664.3	3507.7	3404.2	3452.0	3631.1	3916.3	3990.6
25°	4559.8	4545.2	4416.5	4151.1	3908.4	3652.3	3621.8	3767.7	4037.1	4106.0
27.5°	5262.9	5251.0	5111.7	4761.4	4411.2	3991.9	3832.7	3928.3	4163.1	4241.4
30°	6019.1	6053.6	5806.8	5430.1	4986.9	4435.1	4116.7	4125.9	4326.3	4396.6
32.5°	6908.0	6967.7	6670.5	6192.9	5587.9	4916.6	4474.9	4401.9	4563.7	4622.1
35°	7788.9	7856.5	7609.8	7081.8	6385.3	5484.4	4849.0	4719.0	4879.5	4943.2
37.5°	8550.4	8640.6	8513.2	8054.2	7238.3	6169.0	5337.2	5091.8	5268.2	5347.8
40°	9151.4	9289.3	9280.0	8993.5	8243.9	6999.5	5956.7	5552.1	5751.1	5837.3
42.5°	9639.6	9759.0	9862.5	9847.9	9293.3	7942.8	6685.1	6150.4	6301.7	6401.2
45°	9976.5	10103.9	10326.8	10566.9	10302.9	8952.4	7519.6	6860.2	6998.2	7148.1
47.5°	10277.7	10422.3	10711.5	11092.3	11159.9	9965.9	8433.6	7686.7	7812.7	7968.0
50°	10304.2	10428.9	10877.4	11417.3	11768.9	10939.7	9415.4	8614.1	8732.1	8898.0
52.5°	9663.5	9859.8	10642.5	11408.0	12048.8	11754.3	10390.5	9578.5	9711.2	9910.2
55°	7501.0	7788.9	9954.0	11052.5	11949.3	12281.0	11317.8	10604.1	10773.9	10982.2
57.5°	6460.9	6586.9	7901.6	10405.1	11495.6	12417.6	12100.5	11640.2	11913.5	12141.7
60°	5806.8	5911.6	6689.1	9398.1	10898.6	12201.4	12705.5	12606.0	13078.3	13350.3
62.5°	5106.3	5205.8	5913.0	7847.2	10134.4	11841.8	13087.6	13497.5	14272.3	14569.5
65°	4411.2	4496.1	5174.0	6593.5	9163.3	11482.3	13285.3	14268.3	15377.4	15685.2
67.5°	3636.4	3706.7	4347.5	5562.7	7982.6	10990.1	13383.4	14874.6	16339.2	16603.3
70°	2624.1	2678.5	3340.6	4399.2	6500.7	10143.7	13343.6	15304.4	16838.1	17049.0
72.5°	1240.4	1289.5	2066.9	2856.3	4591.6	8496.0	12538.3	14963.5	16331.3	16226.5
75°	662.0	704.5	1187.4	1566.8	2425.1	5824.1	10260.5	12889.9	13713.8	13204.3
77.5°	448.4	481.6	735.0	940.6	1107.8	2764.8	6594.9	8924.5	8586.2	7745.1
80°	355.5	390.0	602.3	636.8	536.0	999.0	2725.0	4131.2	2967.8	2373.4
82.5°	273.3	311.8	506.8	461.7	291.9	409.9	793.3	1306.8	760.2	578.4
85°	167.2	208.3	398.0	294.5	164.5	187.1	269.3	363.5	232.2	193.7
87.5°	84.9	119.4	201.7	107.5	74.3	43.8	71.6	71.6	61.0	53.1
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°
3613.8	0°	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8	3613.8
3595.3	2.5°	3627.1	3653.6	3698.8	3741.2	3774.4	3806.2	3838.1	3855.3	3860.6	3881.8
3615.2	5°	3669.6	3718.7	3806.2	3888.5	3940.2	3972.0	3994.6	4007.9	4010.5	4017.2
3669.6	7.5°	3747.8	3826.1	3948.2	4030.4	4068.9	4066.2	4057.0	4023.8	4010.5	3998.6
3749.2	10°	3858.0	3961.4	4111.3	4168.4	4144.5	4080.8	3998.6	3901.7	3856.6	3812.8
3858.0	12.5°	3994.6	4125.9	4273.2	4270.5	4152.5	3989.3	3798.3	3649.7	3555.5	3487.8
3991.9	15°	4160.4	4311.7	4424.4	4334.2	4075.5	3782.3	3502.4	3308.7	3223.8	3149.5
4127.3	17.5°	4331.6	4493.4	4545.2	4314.3	3881.8	3475.9	3158.8	3006.2	2922.7	2882.9
4273.2	20°	4498.7	4659.3	4616.8	4200.2	3587.3	3128.3	2845.7	2762.1	2744.9	2754.2
4415.2	22.5°	4675.2	4818.5	4631.4	3980.0	3211.9	2772.7	2617.5	2620.2	2658.6	2686.5
4563.7	25°	4855.6	4952.5	4592.9	3661.6	2808.6	2511.4	2472.9	2515.4	2591.0	2645.4
4730.9	27.5°	5029.4	5071.9	4509.3	3267.6	2462.3	2324.3	2331.0	2418.5	2532.6	2608.2
4933.9	30°	5225.7	5178.0	4348.8	2824.5	2222.2	2163.8	2219.5	2321.7	2435.8	2503.4
5189.9	32.5°	5447.3	5269.5	4094.1	2414.5	2052.4	2035.1	2126.6	2193.0	2243.4	2263.3
5529.6	35°	5723.2	5398.2	3767.7	2126.6	1899.8	1940.9	2028.5	1995.3	1975.4	1964.8
5985.9	37.5°	6081.4	5572.0	3385.7	1939.6	1776.4	1873.3	1909.1	1805.6	1727.3	1688.8
6539.1	40°	6512.6	5826.7	3018.2	1795.0	1698.1	1814.9	1752.5	1627.8	1528.3	1473.9
7161.4	42.5°	6991.5	6093.4	2709.1	1686.2	1654.4	1767.1	1637.1	1488.5	1328.0	1310.7
7903.0	45°	7494.3	6368.0	2498.1	1602.6	1633.1	1726.0	1570.8	1330.6	1216.6	1286.9
8647.2	47.5°	7997.2	6620.1	2370.8	1540.3	1622.5	1679.6	1512.4	1243.1	1162.2	1264.3
9444.6	50°	8557.0	6845.6	2313.7	1495.2	1610.6	1661.0	1424.8	1220.5	1105.1	1172.8
10269.7	52.5°	9112.9	7020.7	2271.3	1450.0	1593.3	1646.4	1382.4	1194.0	1036.1	1040.1
11100.2	55°	9667.4	7134.8	2224.8	1390.3	1554.9	1614.6	1378.4	1164.8	984.4	965.8
11978.5	57.5°	10259.1	7199.8	2167.8	1324.0	1488.5	1533.6	1374.4	1142.3	968.5	938.0
12876.6	60°	10861.4	7295.3	2093.5	1243.1	1399.6	1436.8	1365.1	1134.3	959.2	907.4
13723.1	62.5°	11401.4	7328.5	2004.6	1166.1	1285.5	1341.3	1345.2	1127.7	934.0	845.1
14426.2	65°	11755.6	7185.2	1849.4	1078.6	1162.2	1243.1	1306.8	1105.1	888.9	800.0
14773.8	67.5°	11741.0	6776.6	1606.6	965.8	1042.8	1134.3	1251.0	1066.6	834.5	744.3
14511.1	70°	11194.4	5970.0	1298.8	834.5	911.4	1017.6	1179.4	1009.6	769.5	683.2
12903.2	72.5°	9601.1	4672.5	943.3	680.6	758.9	896.8	1086.5	940.6	703.1	628.8
9536.1	75°	6858.9	2957.1	639.5	522.7	590.4	760.2	971.1	859.7	642.1	631.5
4776.0	77.5°	3503.7	1412.9	423.2	382.1	411.3	599.7	815.9	768.1	651.4	521.4
1358.5	80°	1139.6	521.4	266.7	260.0	273.3	399.3	631.5	630.2	493.5	354.2
329.0	82.5°	363.5	224.2	173.8	167.2	160.5	250.7	440.5	498.8	333.0	224.2
118.1	85°	144.6	134.0	102.2	94.2	67.7	118.1	230.8	331.7	248.1	161.9
30.5	87.5°	53.1	53.1	27.9	19.9	14.6	39.8	62.4	99.5	142.0	83.6
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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<u>180°</u>
3613.8
3893.8
4027.8
4001.2
3799.6
3471.9
3141.6
2894.8
2750.2
2693.1
2660.0
2626.8
2519.3
2273.9
1975.4
1698.1
1477.9
1328.0
1324.0
1312.1
1223.2
1068.0
979.1
941.9
911.4
845.1
800.0
748.2
691.2
624.9
595.7
464.3
313.1
222.9
165.8
82.3
0.0

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