

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: P955474

Luminaire Tested: **GALN-SB8B-930-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955474
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-SB8B-930-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32518 lumens
Efficiency: N/A
Efficacy: 111.1 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

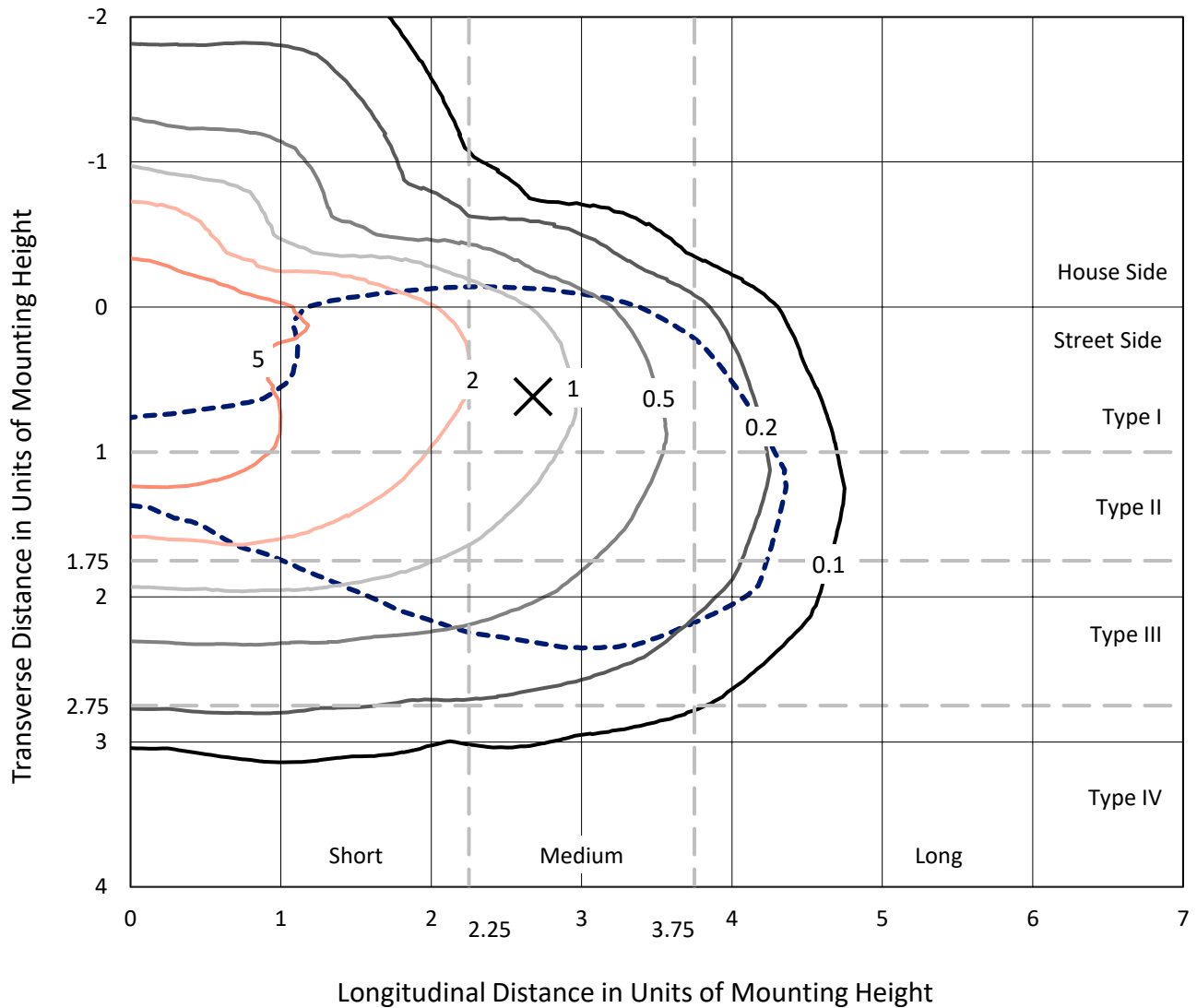
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

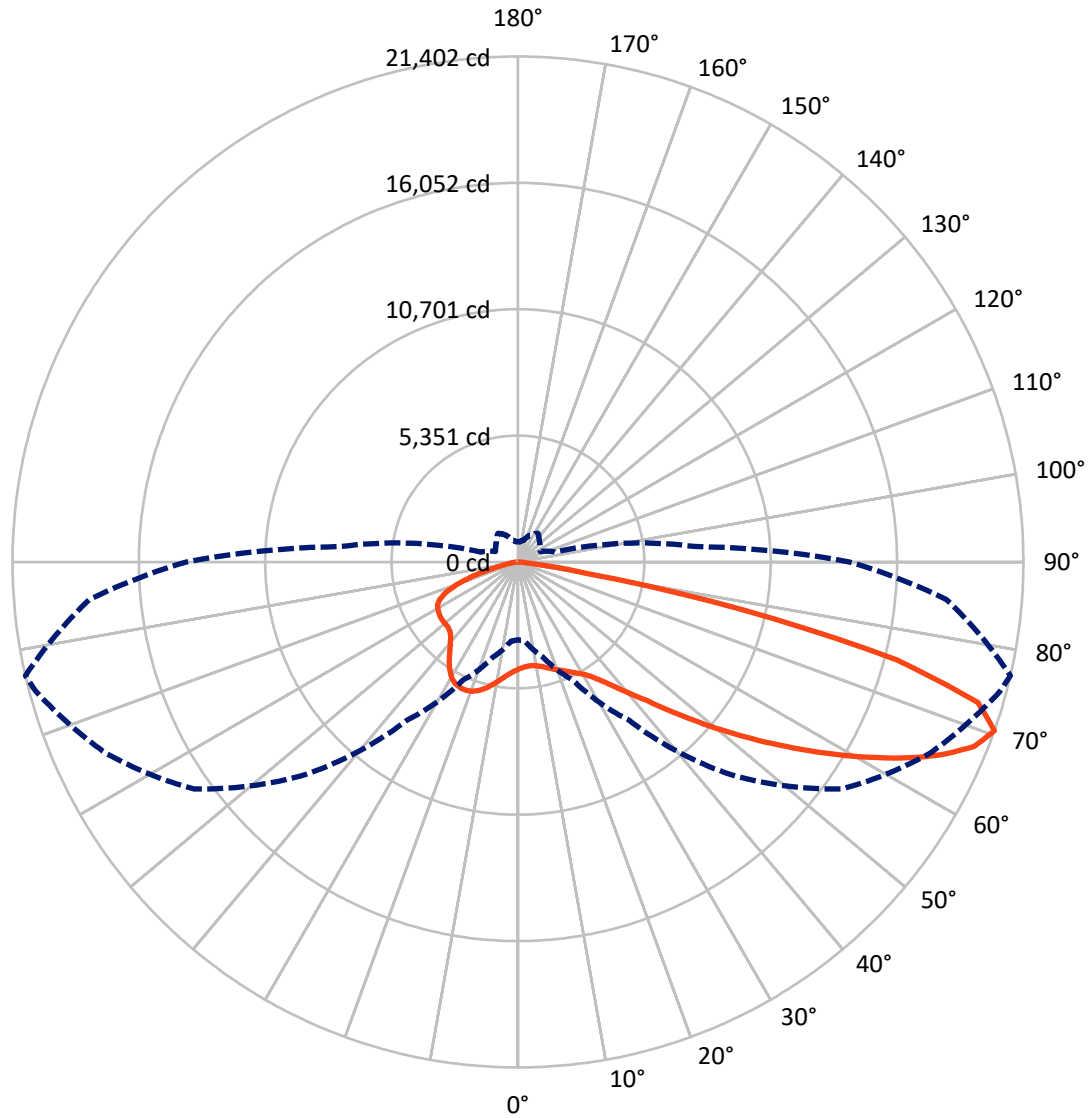
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - 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	7120.9	0.0	7120.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	25397.1	0.0	25397.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	32518.0	0.0	32518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.7	1.3
10°-20°	1248.7	3.8
20°-30°	2135.5	6.6
30°-40°	3434.1	10.6
40°-50°	5361.5	16.5
50°-60°	7161.7	22.0
60°-70°	7633.2	23.5
70°-80°	4699.0	14.5
80°-90°	411.8	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°	32518.0	100.0
0°-180°	32518.0	100.0

Coefficient of Utilization



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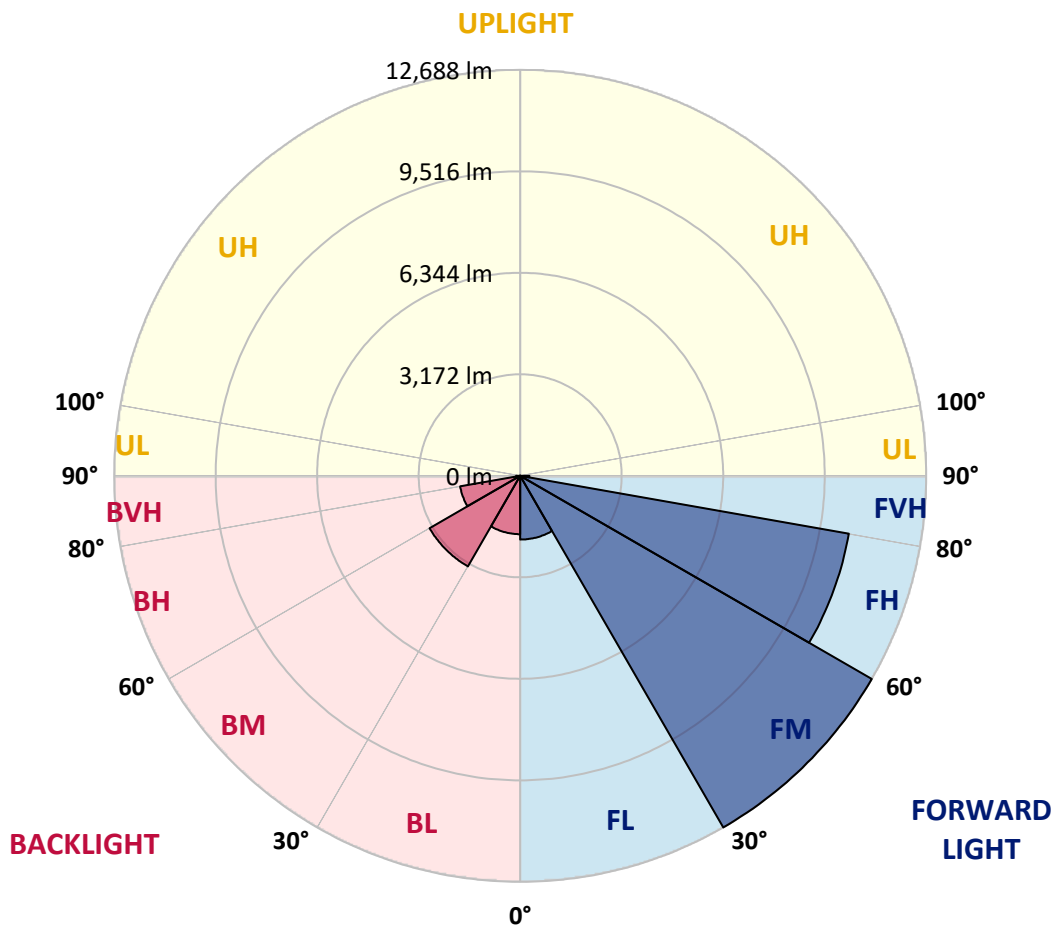
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1992.3	6.1			
FM (30°-60°)	12687.8	39.0			
FH (60°-80°)	10429.1	32.1			G4/12000
FVH (80°-90°)	287.9	0.9			G3/500
BL (0°-30°)	1824.6	5.6	B3/2500		
BM (30°-60°)	3269.4	10.1	B3/5000		
BH (60°-80°)	1903.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	123.8	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6
2.5°	4181.8	4180.2	4201.8	4208.5	4248.4	4276.8	4330.0	4386.7	4459.9	4468.3
5°	3940.3	3940.3	3965.3	3992.0	4043.6	4100.2	4181.8	4280.1	4406.7	4426.6
7.5°	3735.5	3748.8	3770.5	3822.1	3882.1	3963.7	4088.6	4228.5	4395.0	4426.6
10°	3570.6	3585.6	3612.3	3653.9	3743.8	3857.1	4020.3	4200.1	4423.3	4473.3
12.5°	3519.0	3534.0	3549.0	3580.6	3663.9	3797.1	3992.0	4213.5	4491.6	4541.6
15°	3638.9	3657.2	3645.6	3637.2	3680.5	3802.1	4005.3	4261.8	4576.5	4648.1
17.5°	3915.4	3922.0	3895.4	3817.1	3810.4	3875.4	4068.6	4328.4	4683.1	4761.4
20°	4361.7	4350.0	4295.1	4140.2	4051.9	4038.6	4176.8	4428.3	4793.0	4876.3
22.5°	4967.9	4954.6	4844.7	4599.8	4403.3	4273.4	4333.4	4558.2	4916.3	5009.5
25°	5724.0	5705.7	5544.1	5211.0	4906.3	4584.9	4546.6	4729.7	5067.8	5154.4
27.5°	6606.7	6591.7	6416.8	5977.1	5537.5	5011.2	4811.3	4931.3	5226.0	5324.3
30°	7555.9	7599.2	7289.5	6816.5	6260.2	5567.4	5167.7	5179.4	5430.9	5519.1
32.5°	8671.8	8746.7	8373.6	7774.1	7014.7	6172.0	5617.4	5525.8	5729.0	5802.3
35°	9777.6	9862.5	9552.8	8889.9	8015.6	6884.8	6087.0	5923.8	6125.4	6205.3
37.5°	10733.5	10846.8	10686.9	10110.7	9086.4	7744.1	6699.9	6391.8	6613.3	6713.2
40°	11487.9	11661.2	11649.5	11289.8	10348.8	8786.7	7477.7	6969.7	7219.5	7327.8
42.5°	12100.8	12250.7	12380.6	12362.3	11666.1	9970.8	8392.0	7720.8	7910.7	8035.6
45°	12523.8	12683.7	12963.5	13264.9	12933.5	11238.1	9439.5	8611.8	8785.0	8973.2
47.5°	12901.9	13083.4	13446.5	13924.4	14009.4	12510.5	10587.0	9649.3	9807.6	10002.4
50°	12935.2	13091.7	13654.6	14332.5	14773.8	13732.9	11819.4	10813.5	10961.7	11169.9
52.5°	12130.8	12377.3	13359.9	14320.8	15125.2	14755.5	13043.4	12024.2	12190.7	12440.6
55°	9416.2	9777.6	12495.5	13874.5	15000.3	15416.6	14207.6	13311.6	13524.7	13786.2
57.5°	8110.5	8268.7	9919.1	13061.8	14430.7	15588.2	15190.1	14612.2	14955.3	15241.8
60°	7289.5	7421.0	8397.0	11797.7	13681.3	15316.7	15949.6	15824.7	16417.5	16758.9
62.5°	6410.1	6535.0	7422.7	9850.9	12722.0	14865.4	16429.2	16943.8	17916.4	18289.5
65°	5537.5	5644.1	6495.1	8277.1	11502.9	14414.1	16677.3	17911.4	19303.7	19690.1
67.5°	4564.9	4653.1	5457.5	6983.0	10020.7	13796.2	16800.6	18672.5	20511.1	20842.5
70°	3294.2	3362.4	4193.5	5522.5	8160.5	12733.7	16750.6	19212.1	21137.3	21402.1
72.5°	1557.2	1618.8	2594.7	3585.6	5764.0	10665.2	15739.7	18784.1	20501.1	20369.5
75°	831.0	884.3	1490.5	1966.8	3044.4	7311.1	12880.2	16181.1	17215.3	16575.8
77.5°	562.9	604.5	922.6	1180.8	1390.6	3470.7	8278.7	11203.2	10778.5	9722.6
80°	446.3	489.6	756.1	799.4	672.8	1254.0	3420.7	5186.1	3725.5	2979.4
82.5°	343.1	391.4	636.2	579.6	366.4	514.6	995.9	1640.4	954.3	726.1
85°	209.8	261.5	499.6	369.7	206.5	234.8	338.1	456.3	291.4	243.1
87.5°	106.6	149.9	253.1	134.9	93.3	55.0	89.9	89.9	76.6	66.6
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°
4536.6	0°	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6	4536.6
4513.2	2.5°	4553.2	4586.5	4643.1	4696.4	4738.1	4778.0	4818.0	4839.7	4846.3	4873.0
4538.2	5°	4606.5	4668.1	4778.0	4881.3	4946.2	4986.2	5014.5	5031.2	5034.5	5042.8
4606.5	7.5°	4704.8	4803.0	4956.2	5059.5	5107.8	5104.5	5092.8	5051.2	5034.5	5019.5
4706.4	10°	4843.0	4972.9	5161.1	5232.7	5202.7	5122.8	5019.5	4898.0	4841.3	4786.4
4843.0	12.5°	5014.5	5179.4	5364.3	5360.9	5212.7	5007.9	4768.0	4581.5	4463.3	4378.3
5011.2	15°	5222.7	5412.6	5554.1	5440.9	5116.1	4748.1	4396.7	4153.5	4046.9	3953.7
5181.1	17.5°	5437.5	5640.7	5705.7	5415.9	4873.0	4363.4	3965.3	3773.8	3668.9	3618.9
5364.3	20°	5647.4	5848.9	5795.6	5272.7	4503.2	3927.0	3572.3	3467.4	3445.7	3457.4
5542.5	22.5°	5868.9	6048.7	5813.9	4996.2	4031.9	3480.7	3285.8	3289.2	3337.5	3372.4
5729.0	25°	6095.4	6216.9	5765.6	4596.5	3525.7	3152.6	3104.3	3157.6	3252.5	3320.8
5938.8	27.5°	6313.5	6366.8	5660.7	4101.9	3091.0	2917.8	2926.1	3036.0	3179.3	3274.2
6193.6	30°	6560.0	6500.1	5459.2	3545.6	2789.5	2716.3	2786.2	2914.5	3057.7	3142.6
6515.1	32.5°	6838.1	6615.0	5139.4	3031.0	2576.4	2554.7	2669.6	2752.9	2816.2	2841.2
6941.4	35°	7184.5	6776.5	4729.7	2669.6	2384.9	2436.5	2546.4	2504.8	2479.8	2466.5
7514.3	37.5°	7634.2	6994.7	4250.1	2434.8	2230.0	2351.5	2396.5	2266.6	2168.4	2120.1
8208.8	40°	8175.5	7314.4	3788.8	2253.3	2131.7	2278.3	2200.0	2043.4	1918.5	1850.3
8989.8	42.5°	8776.7	7649.2	3400.8	2116.7	2076.8	2218.3	2055.1	1868.6	1667.1	1645.4
9920.8	45°	9407.9	7993.9	3136.0	2011.8	2050.1	2166.7	1971.8	1670.4	1527.2	1615.4
10855.1	47.5°	10039.0	8310.4	2976.1	1933.5	2036.8	2108.4	1898.6	1560.5	1458.9	1587.1
11856.0	50°	10741.8	8593.5	2904.5	1876.9	2021.8	2085.1	1788.6	1532.2	1387.3	1472.2
12891.9	52.5°	11439.7	8813.3	2851.2	1820.3	2000.1	2066.8	1735.3	1498.9	1300.7	1305.7
13934.4	55°	12135.8	8956.5	2792.9	1745.3	1951.9	2026.8	1730.4	1462.2	1235.7	1212.4
15036.9	57.5°	12878.6	9038.1	2721.3	1662.1	1868.6	1925.2	1725.4	1433.9	1215.7	1177.4
16164.4	60°	13634.7	9158.1	2628.0	1560.5	1757.0	1803.6	1713.7	1423.9	1204.1	1139.1
17226.9	62.5°	14312.5	9199.7	2516.4	1463.9	1613.8	1683.7	1688.7	1415.6	1172.4	1060.9
18109.6	65°	14757.1	9019.8	2321.6	1354.0	1458.9	1560.5	1640.4	1387.3	1115.8	1004.2
18545.9	67.5°	14738.8	8506.9	2016.8	1212.4	1309.0	1423.9	1570.5	1339.0	1047.5	934.3
18216.2	70°	14052.7	7494.3	1630.4	1047.5	1144.1	1277.4	1480.5	1267.4	965.9	857.7
16197.7	72.5°	12052.5	5865.5	1184.1	854.4	952.6	1125.8	1364.0	1180.8	882.7	789.4
11970.9	75°	8610.1	3712.2	802.7	656.2	741.1	954.3	1219.1	1079.2	806.1	792.7
5995.5	77.5°	4398.3	1773.7	531.3	479.6	516.3	752.8	1024.2	964.3	817.7	654.5
1705.4	80°	1430.6	654.5	334.7	326.4	343.1	501.3	792.7	791.1	619.5	444.7
413.0	82.5°	456.3	281.5	218.2	209.8	201.5	314.8	552.9	626.2	418.0	281.5
148.2	85°	181.5	168.2	128.2	118.2	84.9	148.2	289.8	416.4	311.4	203.2
38.3	87.5°	66.6	66.6	35.0	25.0	18.3	50.0	78.3	124.9	178.2	104.9
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>
4536.6
4888.0
5056.2
5022.9
4769.7
4358.4
3943.7
3633.9
3452.4
3380.8
3339.1
3297.5
3162.6
2854.5
2479.8
2131.7
1855.3
1667.1
1662.1
1647.1
1535.5
1340.6
1229.1
1182.4
1144.1
1060.9
1004.2
939.3
867.7
784.4
747.8
582.9
393.0
279.8
208.2
103.3
0.0

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