

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: P948996

Luminaire Tested: **GALN-SB3D-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28542 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

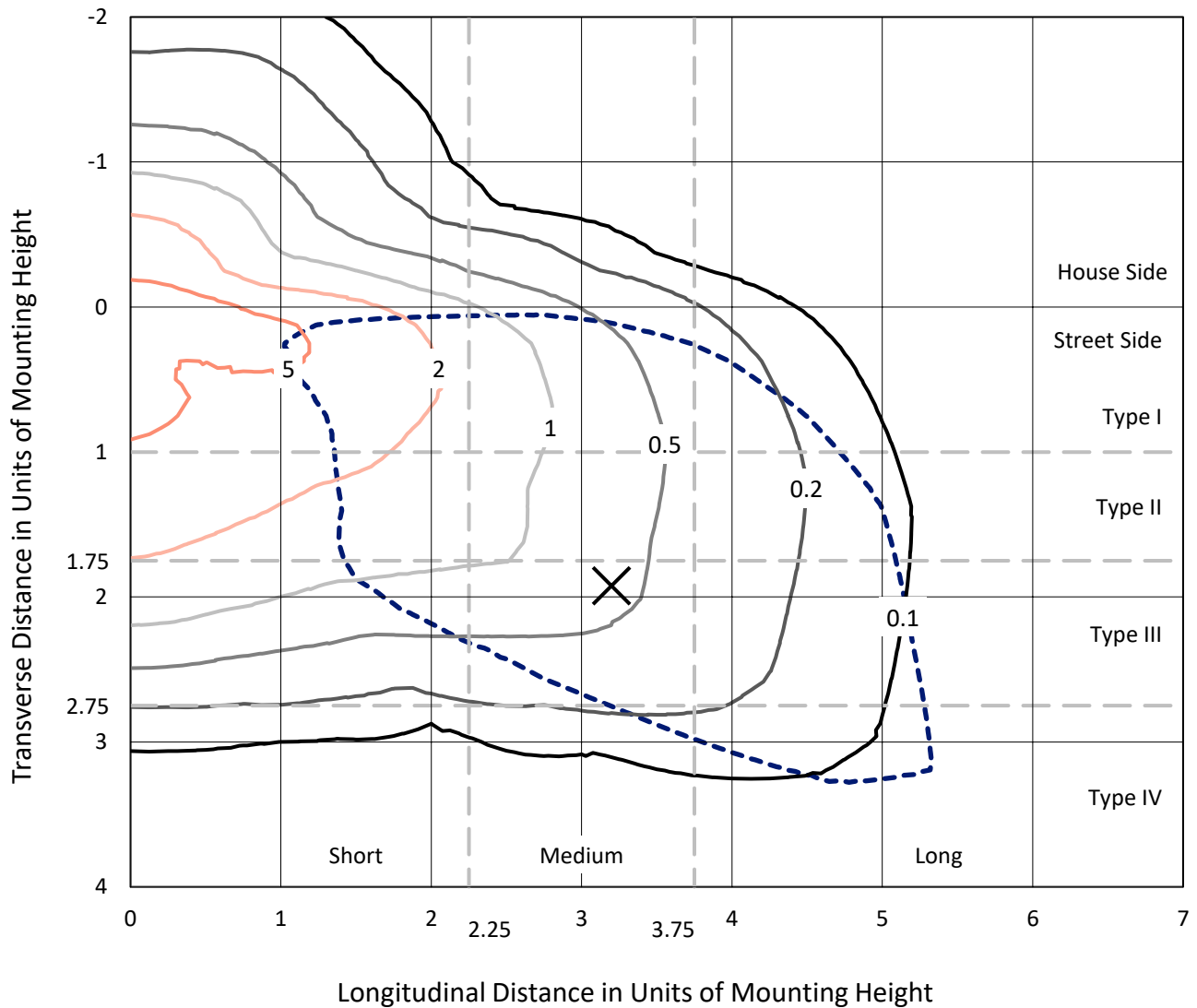
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

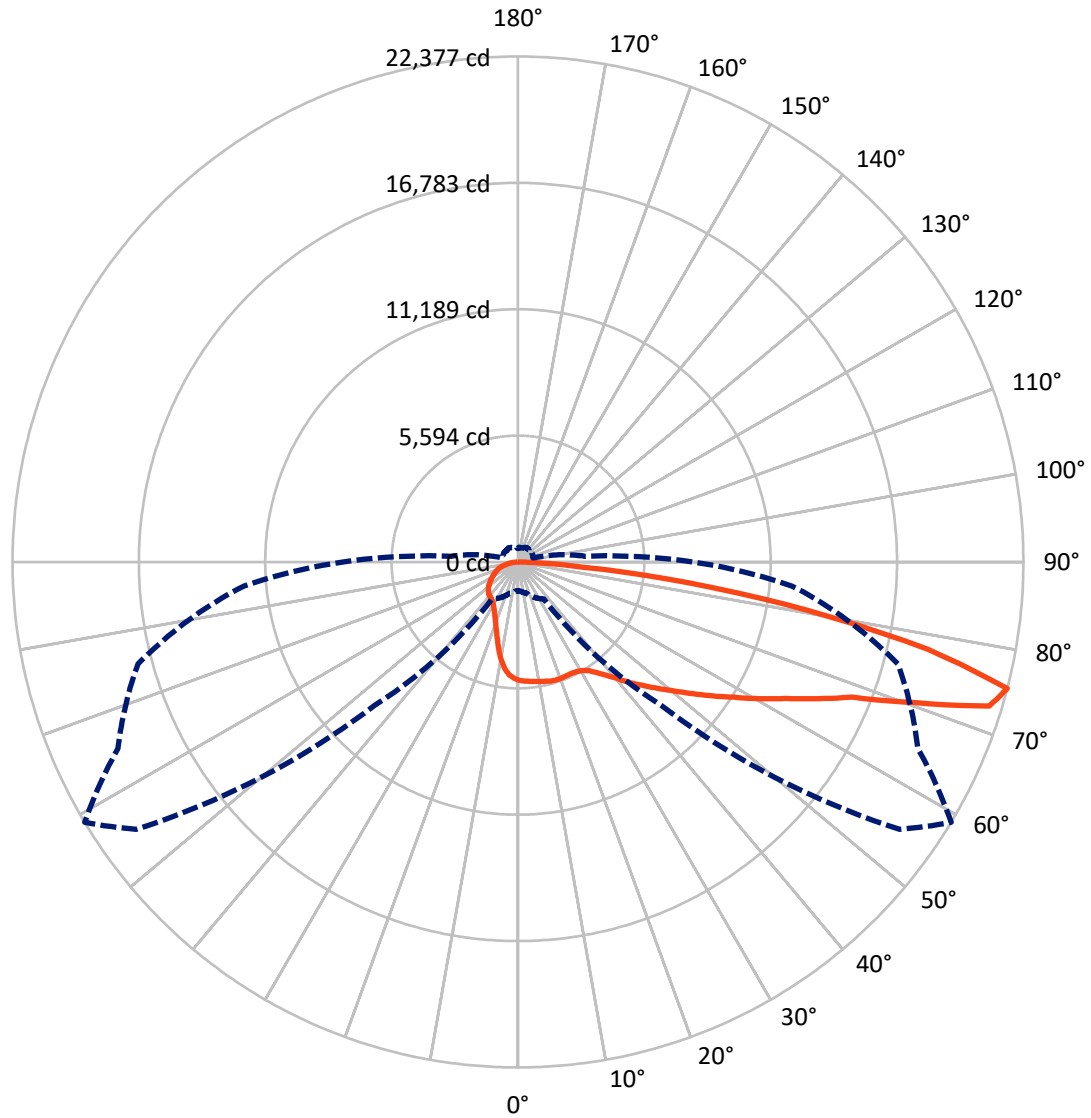
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5353.2	0.0	5353.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23188.8	0.0	23188.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	28542.0	0.0	28542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.7	1.6
10°-20°	1200.7	4.2
20°-30°	1823.8	6.4
30°-40°	2711.0	9.5
40°-50°	4031.7	14.1
50°-60°	5472.5	19.2
60°-70°	6681.1	23.4
70°-80°	5243.2	18.4
80°-90°	908.3	3.2
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°	28542.0	100.0
0°-180°	28542.0	100.0

Coefficient of Utilization



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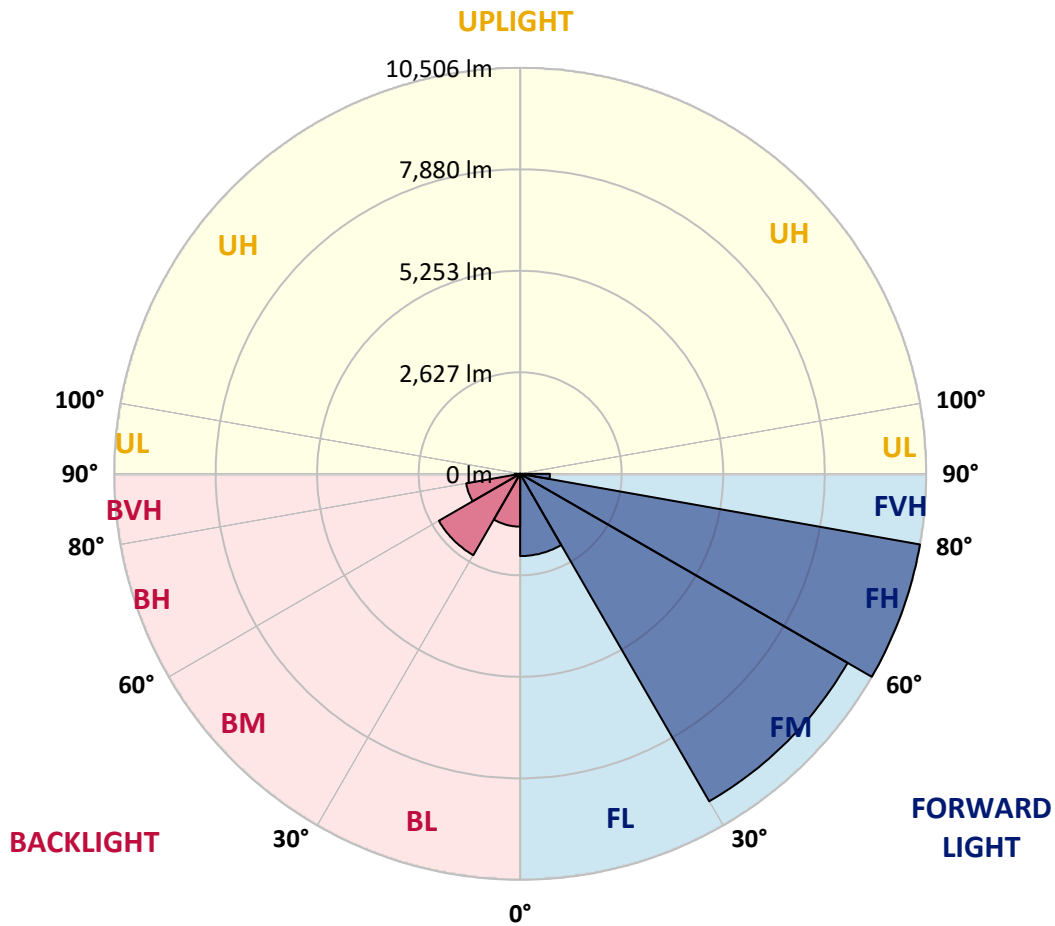
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2128.1	7.5			
FM (30°-60°)	9785.4	34.3			
FH (60°-80°)	10506.0	36.8			G4/12000
FVH (80°-90°)	769.2	2.7			G5
BL (0°-30°)	1366.1	4.8	B3/2500		
BM (30°-60°)	2429.8	8.5	B2/2500		
BH (60°-80°)	1418.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	139.0	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-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8
2.5°	5283.3	5264.9	5283.3	5275.7	5272.6	5266.5	5268.0	5278.7	5272.6	5280.3
5°	5248.0	5237.3	5255.7	5251.1	5271.1	5274.1	5294.1	5306.4	5314.1	5315.6
7.5°	5189.7	5178.9	5205.0	5226.5	5269.5	5281.8	5323.3	5343.2	5354.0	5372.4
10°	4976.3	4971.7	5036.1	5117.5	5218.9	5281.8	5344.8	5378.5	5395.4	5444.6
12.5°	4598.6	4604.7	4689.1	4845.8	5048.4	5251.1	5369.3	5418.5	5444.6	5506.0
15°	4237.7	4236.2	4328.3	4495.7	4779.7	5116.0	5381.6	5466.1	5510.6	5601.2
17.5°	4028.9	4022.8	4087.3	4214.7	4478.8	4908.7	5350.9	5492.2	5587.4	5701.0
20°	3990.5	3978.2	4012.0	4075.0	4262.3	4681.5	5271.1	5492.2	5648.8	5796.2
22.5°	4130.3	4110.3	4096.5	4088.8	4171.7	4494.1	5180.5	5473.7	5739.4	5932.8
25°	4411.2	4380.5	4309.9	4240.8	4216.2	4409.7	5100.6	5469.1	5874.5	6117.1
27.5°	4865.7	4827.3	4684.5	4518.7	4369.8	4452.7	5065.3	5496.8	6023.4	6312.1
30°	5429.2	5387.8	5208.1	4953.2	4686.1	4612.4	5109.8	5578.1	6213.8	6571.6
32.5°	5934.4	5888.3	5734.8	5475.3	5114.5	4888.7	5251.1	5733.2	6513.2	6932.4
35°	6382.7	6329.0	6190.8	5951.3	5639.6	5277.2	5506.0	6008.1	6938.5	7518.9
37.5°	6821.8	6758.9	6608.4	6355.1	6137.0	5794.6	5857.6	6361.2	7503.6	8231.3
40°	7313.2	7222.6	7039.9	6789.6	6577.7	6401.1	6319.7	6794.2	8077.8	9026.7
42.5°	7789.1	7703.2	7485.1	7271.7	7006.1	6955.4	6855.6	7300.9	8705.8	9900.3
45°	8302.0	8199.1	7935.0	7664.8	7497.4	7323.9	7374.6	7807.6	9321.5	10790.9
47.5°	8782.5	8667.4	8355.7	8054.8	7962.6	7634.1	7850.6	8364.9	9961.7	11693.7
50°	9042.0	8928.4	8668.9	8397.2	8325.0	8016.4	8366.5	8977.5	10632.7	12593.4
52.5°	9258.5	9135.7	8796.4	8645.9	8624.4	8432.5	9002.1	9677.7	11303.7	13388.8
55°	9488.8	9352.2	8919.2	8784.1	8882.3	8899.2	9756.0	10471.5	12013.1	14164.2
57.5°	9754.5	9581.0	9037.4	8900.8	9134.2	9445.8	10622.0	11294.5	12710.1	14882.7
60°	10004.7	9829.7	9264.7	9086.6	9405.9	10080.0	11615.4	12291.0	13499.3	15523.0
62.5°	10053.9	9909.5	9445.8	9444.3	9774.4	10820.0	12791.5	13296.7	14188.7	16155.6
65°	9203.3	9112.7	8837.8	9430.5	10302.6	11885.6	14101.2	14583.3	15065.4	16708.3
67.5°	7004.5	7016.8	6996.9	8140.7	9875.8	13416.4	15997.4	15960.6	16147.9	17328.6
70°	3202.9	3275.0	3744.9	5619.6	7912.0	13593.0	19132.7	18655.2	17506.8	18131.7
72.5°	1730.4	1785.7	1977.6	2722.3	4756.7	12085.2	21475.8	21815.1	19313.9	18672.1
75°	1269.8	1300.5	1434.1	1730.4	1997.6	8982.2	20635.9	22377.1	19539.6	17411.6
77.5°	950.4	964.2	1073.3	1371.1	1022.6	4735.2	16488.8	18532.4	16726.8	14305.4
80°	689.4	704.8	786.1	1028.7	717.0	1731.9	11322.1	13008.0	11455.7	9118.8
82.5°	476.0	482.1	517.4	700.1	500.5	672.5	6424.2	7627.9	6395.0	3199.8
85°	287.1	294.8	310.2	408.4	284.1	319.4	2773.0	2868.1	1911.6	764.6
87.5°	118.2	125.9	138.2	172.0	112.1	89.1	457.6	574.2	357.8	224.2
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°
5238.8	0°	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8	5238.8
5254.2	2.5°	5246.5	5235.7	5206.6	5166.7	5129.8	5083.7	5063.8	5046.9	5031.5	5002.4
5295.6	5°	5278.7	5249.6	5171.3	5069.9	4954.8	4828.9	4706.0	4621.6	4549.4	4495.7
5343.2	7.5°	5327.9	5272.6	5129.8	4922.5	4658.4	4388.2	4144.1	3970.6	3840.1	3792.5
5410.8	10°	5378.5	5312.5	5063.8	4698.4	4242.3	3826.2	3502.3	3324.2	3219.8	3186.0
5490.6	12.5°	5438.4	5341.7	4960.9	4386.7	3777.1	3321.1	3038.6	2934.2	2880.4	2862.0
5588.9	15°	5525.9	5366.3	4805.8	3996.7	3333.4	2952.6	2769.9	2697.7	2670.1	2668.5
5690.2	17.5°	5592.0	5370.9	4564.8	3579.0	2992.5	2730.0	2579.5	2551.9	2570.3	2597.9
5790.0	20°	5665.7	5329.4	4248.5	3198.3	2753.0	2535.0	2472.0	2490.4	2535.0	2574.9
5922.1	22.5°	5717.9	5254.2	3866.2	2901.9	2545.7	2422.9	2419.8	2458.2	2482.8	2502.7
6077.2	25°	5763.9	5126.7	3460.8	2653.2	2375.3	2355.3	2389.1	2376.8	2359.9	2376.8
6232.2	27.5°	5797.7	4925.6	3098.5	2435.2	2255.5	2309.3	2289.3	2261.7	2260.1	2269.3
6414.9	30°	5787.0	4656.9	2800.6	2227.9	2171.1	2223.3	2175.7	2171.1	2166.5	2171.1
6689.8	32.5°	5787.0	4351.4	2571.8	2085.1	2117.3	2097.4	2092.8	2082.0	2063.6	2062.1
7062.9	35°	5819.2	4045.8	2375.3	2008.3	2072.8	2025.2	2028.3	2002.2	1963.8	1945.4
7557.3	37.5°	5885.2	3800.1	2180.3	1971.5	1994.5	1993.0	1980.7	1936.2	1868.6	1810.2
8174.5	40°	6044.9	3728.0	2046.7	1954.6	1957.6	1976.1	1943.8	1857.8	1704.3	1609.1
8801.0	42.5°	6295.2	3849.3	2017.5	1913.1	1933.1	1951.5	1888.6	1689.0	1579.9	1523.1
9458.1	45°	6613.0	4061.2	2080.5	1853.2	1874.7	1907.0	1719.7	1624.5	1575.3	1576.9
10109.1	47.5°	7015.3	4283.8	2197.2	1801.0	1790.3	1808.7	1607.6	1549.2	1481.7	1498.6
10734.1	50°	7480.5	4509.5	2307.7	1730.4	1696.6	1636.7	1535.4	1480.1	1394.2	1354.2
11337.5	52.5°	7984.1	4727.5	2352.2	1644.4	1595.3	1526.2	1486.3	1418.7	1314.3	1248.3
11907.1	55°	8461.6	4925.6	2303.1	1541.6	1494.0	1440.2	1434.1	1392.6	1280.5	1188.4
12413.8	57.5°	8913.1	5091.4	2180.3	1437.1	1391.1	1358.8	1400.3	1380.3	1239.1	1120.8
12892.8	60°	9295.4	5205.0	2002.2	1331.2	1299.0	1282.1	1345.0	1338.9	1180.7	1048.7
13322.8	62.5°	9599.4	5249.6	1805.6	1229.9	1222.2	1191.5	1268.2	1268.2	1107.0	978.1
13700.5	65°	9837.4	5206.6	1606.0	1130.1	1145.4	1099.4	1174.6	1165.4	1028.7	915.1
14135.0	67.5°	10047.7	5065.3	1384.9	1031.8	1067.1	1008.8	1076.3	1054.8	942.7	852.2
14511.2	70°	10141.4	4736.7	1133.1	933.5	976.5	919.7	978.1	938.1	846.0	784.6
14098.1	72.5°	9389.0	3936.8	892.1	830.7	867.5	821.4	872.1	826.1	741.6	714.0
12174.3	75°	7767.6	2954.1	686.3	718.6	746.2	710.9	744.7	710.9	634.1	654.1
8992.9	77.5°	5641.1	1994.5	525.1	600.3	612.6	594.2	623.4	585.0	515.9	511.3
4481.9	80°	2805.2	1168.4	411.5	474.4	469.8	457.6	491.3	472.9	414.6	439.1
1209.9	82.5°	812.2	500.5	299.4	333.2	324.0	327.0	351.6	360.8	540.5	535.9
376.2	85°	254.9	196.5	179.6	185.8	176.6	181.2	207.3	411.5	380.8	222.6
116.7	87.5°	66.0	67.6	44.5	47.6	49.1	58.3	66.0	250.3	119.8	78.3
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>
5238.8
4988.5
4451.2
3709.6
3133.8
2866.6
2674.7
2608.7
2588.7
2513.5
2387.6
2284.7
2188.0
2082.0
1963.8
1830.2
1621.4
1523.1
1584.5
1541.6
1365.0
1246.8
1188.4
1114.7
1044.1
973.5
909.0
846.0
772.3
690.9
597.3
488.3
434.5
548.1
241.1
82.9
0.0

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