

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: P951715

Luminaire Tested: **GALN-SB5D-740-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951715
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-SB5D-740-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55830 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

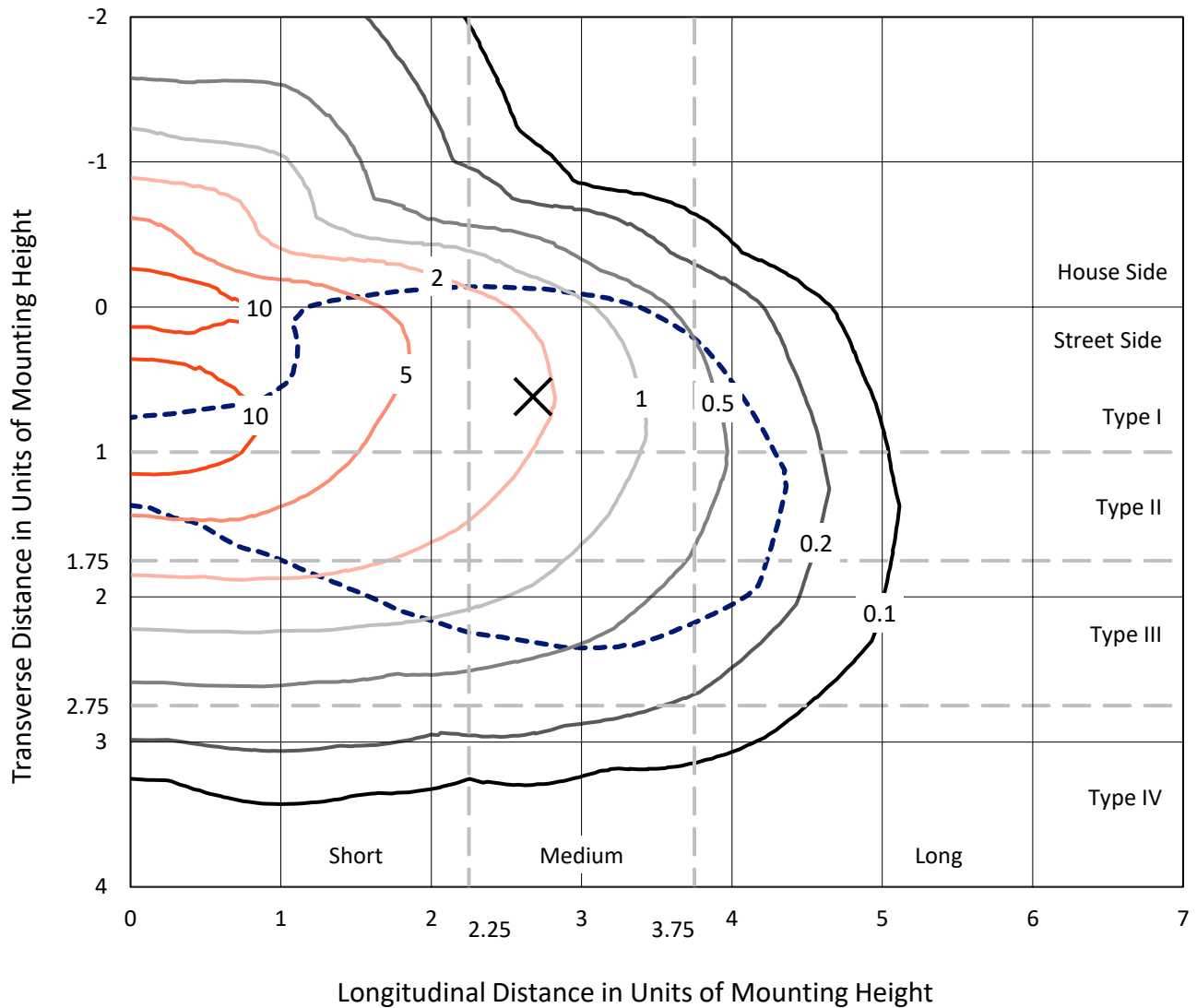
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

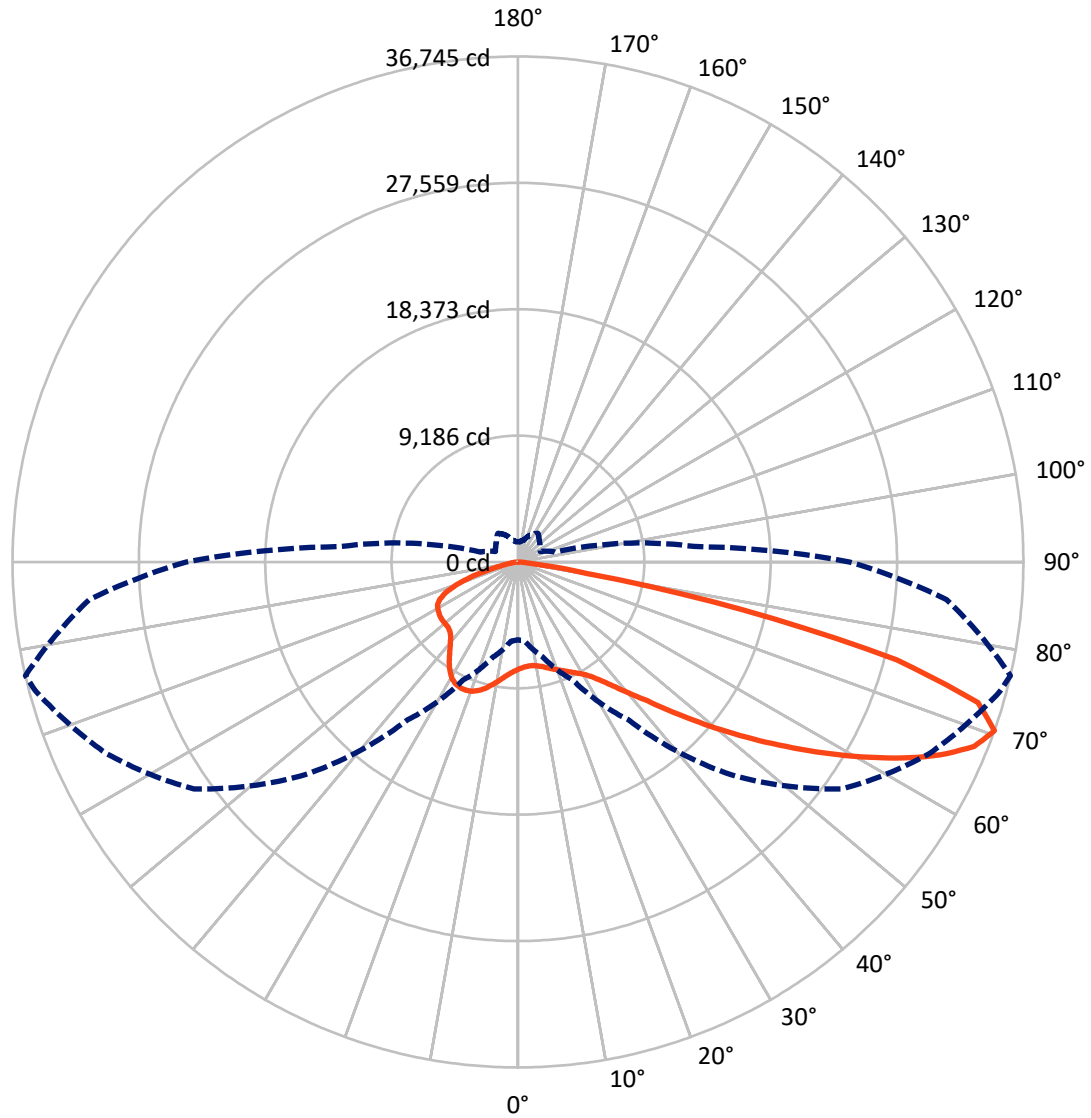
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	12225.9	0.0	12225.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	43604.1	0.0	43604.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	55830.0	0.0	55830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	742.8	1.3
10°-20°	2143.9	3.8
20°-30°	3666.4	6.6
30°-40°	5895.9	10.6
40°-50°	9205.1	16.5
50°-60°	12295.8	22.0
60°-70°	13105.4	23.5
70°-80°	8067.6	14.5
80°-90°	706.9	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°	55830.0	100.0
0°-180°	55830.0	100.0



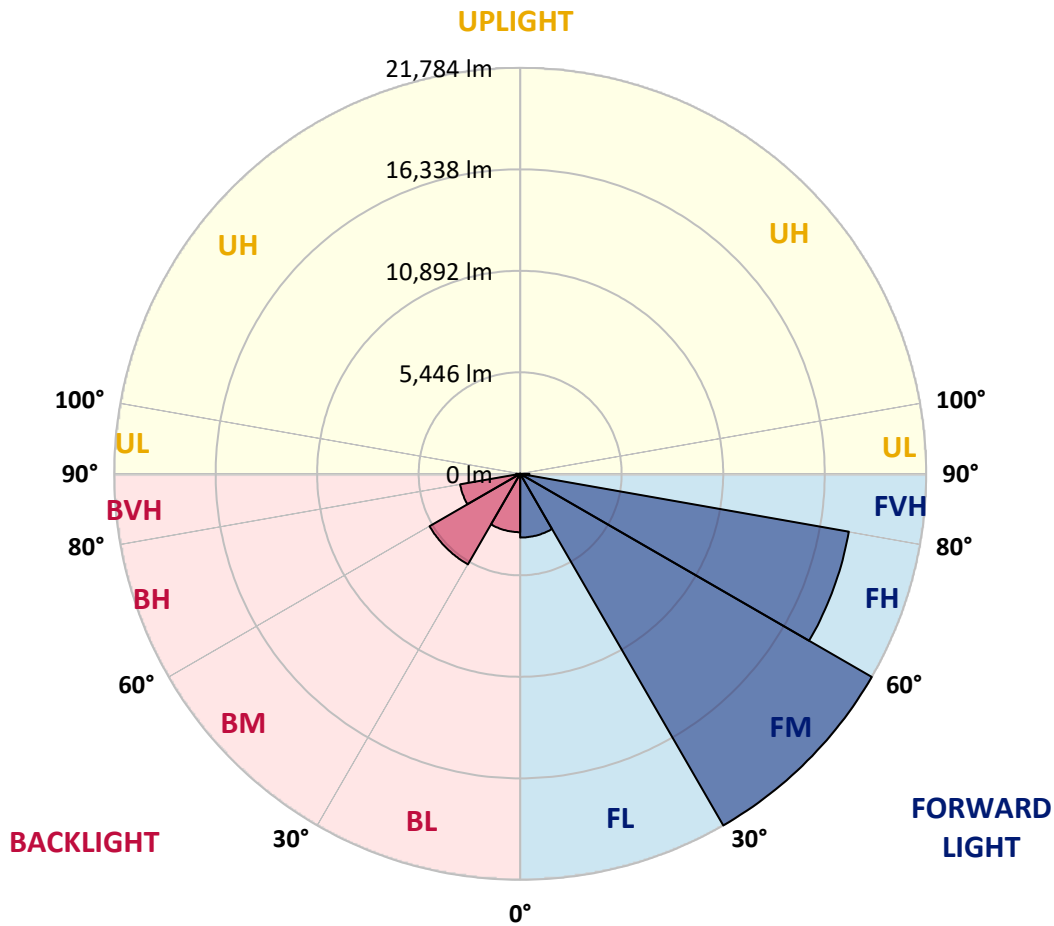
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3420.5	6.1			
FM (30°-60°)	21783.7	39.0			
FH (60°-80°)	17905.6	32.1			G5
FVH (80°-90°)	494.3	0.9			G3/500
BL (0°-30°)	3132.7	5.6	B4/5000		
BM (30°-60°)	5613.2	10.1	B4/8500		
BH (60°-80°)	3267.4	5.9	B4/5000		G4/5000
BVH (80°-90°)	212.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8
2.5°	7179.8	7176.9	7214.1	7225.5	7294.1	7342.7	7434.2	7531.5	7657.3	7671.6
5°	6765.2	6765.2	6808.0	6853.8	6942.4	7039.7	7179.8	7348.5	7565.8	7600.1
7.5°	6413.5	6436.3	6473.5	6562.1	6665.1	6805.2	7019.6	7259.8	7545.8	7600.1
10°	6130.4	6156.1	6201.9	6273.4	6427.8	6622.2	6902.4	7211.2	7594.4	7680.1
12.5°	6041.7	6067.5	6093.2	6147.5	6290.5	6519.3	6853.8	7234.1	7711.6	7797.4
15°	6247.6	6279.1	6259.1	6244.8	6319.1	6527.8	6876.7	7317.0	7857.4	7980.4
17.5°	6722.3	6733.7	6688.0	6553.6	6542.1	6653.6	6985.3	7431.4	8040.4	8174.8
20°	7488.6	7468.6	7374.2	7108.3	6956.7	6933.9	7171.2	7602.9	8229.1	8372.1
22.5°	8529.4	8506.5	8317.8	7897.4	7560.0	7337.0	7440.0	7826.0	8440.7	8600.8
25°	9827.5	9796.0	9518.7	8946.8	8423.6	7871.7	7806.0	8120.5	8700.9	8849.6
27.5°	11342.9	11317.2	11017.0	10262.1	9507.2	8603.7	8260.6	8466.5	8972.6	9141.3
30°	12972.7	13047.1	12515.3	11703.2	10748.2	9558.7	8872.5	8892.5	9324.3	9475.8
32.5°	14888.5	15017.2	14376.7	13347.3	12043.5	10596.6	9644.5	9487.2	9836.1	9961.9
35°	16787.1	16932.9	16401.1	15263.1	13761.9	11820.4	10450.8	10170.6	10516.6	10653.8
37.5°	18428.3	18622.8	18348.3	17358.9	15600.5	13295.8	11503.1	10974.1	11354.4	11525.9
40°	19723.6	20021.0	20001.0	19383.3	17767.8	15085.8	12838.4	11966.3	12395.2	12581.0
42.5°	20775.8	21033.2	21256.2	21224.8	20029.6	17118.8	14408.1	13255.8	13581.8	13796.2
45°	21502.1	21776.6	22257.0	22774.5	22205.5	19294.7	16206.6	14785.6	15082.9	15406.0
47.5°	22151.2	22462.8	23086.2	23906.8	24052.6	21479.2	18176.7	16566.9	16838.5	17173.1
50°	22208.4	22477.1	23443.6	24607.3	25365.0	23578.0	20292.6	18565.6	18820.1	19177.5
52.5°	20827.3	21250.5	22937.5	24587.3	25968.4	25333.6	22394.2	20644.3	20930.2	21359.1
55°	16166.6	16787.1	21453.5	23821.0	25753.9	26468.7	24392.9	22854.6	23220.6	23669.5
57.5°	13924.9	14196.5	17030.1	22425.7	24776.0	26763.3	26079.9	25087.7	25676.7	26168.5
60°	12515.3	12741.1	14416.7	20255.4	23489.3	26297.2	27383.7	27169.3	28187.2	28773.4
62.5°	11005.5	11220.0	12744.0	16912.9	21842.4	25522.3	28207.2	29090.7	30760.6	31401.1
65°	9507.2	9690.2	11151.4	14210.8	19749.3	24747.4	28633.3	30752.0	33142.4	33805.8
67.5°	7837.4	7988.9	9370.0	11989.1	17204.5	23686.6	28844.8	32058.7	35215.4	35784.4
70°	5655.7	5773.0	7199.8	9481.5	14010.7	21862.4	28759.1	32985.1	36290.5	36745.2
72.5°	2673.5	2779.3	4454.8	6156.1	9896.1	18311.1	27023.5	32250.3	35198.3	34972.4
75°	1426.8	1518.3	2559.1	3376.9	5226.8	12552.4	22114.0	27781.2	29556.8	28458.8
77.5°	966.5	1037.9	1584.1	2027.3	2387.5	5958.8	14213.7	19234.7	18505.5	16692.7
80°	766.3	840.6	1298.1	1372.5	1155.2	2153.1	5873.0	8903.9	6396.3	5115.3
82.5°	589.0	671.9	1092.3	995.0	629.1	883.5	1709.9	2816.4	1638.4	1246.7
85°	360.3	448.9	857.8	634.8	354.6	403.2	580.4	783.5	500.4	417.5
87.5°	183.0	257.3	434.6	231.6	160.1	94.4	154.4	154.4	131.5	114.4
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°
7788.8	0°	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8	7788.8
7748.8	2.5°	7817.4	7874.6	7971.8	8063.3	8134.8	8203.4	8272.0	8309.2	8320.6	8366.4
7791.7	5°	7908.9	8014.7	8203.4	8380.7	8492.2	8560.8	8609.4	8638.0	8643.7	8658.0
7908.9	7.5°	8077.6	8246.3	8509.3	8686.6	8769.5	8763.8	8743.8	8672.3	8643.7	8618.0
8080.4	10°	8314.9	8537.9	8861.0	8984.0	8932.5	8795.3	8618.0	8409.3	8312.1	8217.7
8314.9	12.5°	8609.4	8892.5	9209.9	9204.2	8949.7	8598.0	8186.2	7866.0	7663.0	7517.2
8603.7	15°	8966.8	9292.8	9535.8	9341.4	8783.8	8151.9	7548.6	7131.2	6948.2	6788.0
8895.4	17.5°	9335.7	9684.5	9796.0	9298.5	8366.4	7491.4	6808.0	6479.2	6299.1	6213.3
9209.9	20°	9696.0	10041.9	9950.4	9052.6	7731.6	6742.3	6133.2	5953.1	5915.9	5936.0
9515.8	22.5°	10076.3	10385.1	9981.9	8578.0	6922.4	5976.0	5641.4	5647.2	5730.1	5790.1
9836.1	25°	10465.1	10673.9	9899.0	7891.7	6053.2	5412.7	5329.8	5421.3	5584.3	5701.5
10196.3	27.5°	10839.7	10931.2	9718.8	7042.5	5306.9	5009.5	5023.8	5212.5	5458.4	5621.4
10633.8	30°	11262.9	11159.9	9372.9	6087.5	4789.4	4663.6	4783.6	5003.8	5249.7	5395.5
11185.7	32.5°	11740.4	11357.2	8823.9	5204.0	4423.4	4386.2	4583.5	4726.5	4835.1	4878.0
11917.7	35°	12335.1	11634.6	8120.5	4583.5	4094.5	4183.2	4371.9	4300.4	4257.5	4234.7
12901.3	37.5°	13107.1	12009.2	7297.0	4180.3	3828.6	4037.4	4114.6	3891.5	3722.8	3639.9
14093.6	40°	14036.4	12558.1	6505.0	3868.7	3659.9	3911.6	3777.2	3508.4	3293.9	3176.7
15434.6	42.5°	15068.6	13132.9	5838.7	3634.2	3565.6	3808.6	3528.4	3208.2	2862.2	2825.0
17033.0	45°	16152.3	13724.7	5384.1	3454.1	3519.8	3720.0	3385.4	2867.9	2622.0	2773.5
18637.1	47.5°	17236.0	14268.0	5109.6	3319.7	3497.0	3619.9	3259.6	2679.2	2504.8	2724.9
20355.5	50°	18442.6	14754.1	4986.7	3222.5	3471.2	3579.9	3070.9	2630.6	2381.8	2527.6
22134.0	52.5°	19640.7	15131.5	4895.2	3125.2	3434.0	3548.4	2979.4	2573.4	2233.1	2241.7
23924.0	55°	20835.9	15377.4	4795.1	2996.6	3351.1	3479.8	2970.8	2510.5	2121.6	2081.6
25816.8	57.5°	22111.1	15517.5	4672.1	2853.6	3208.2	3305.4	2962.3	2461.9	2087.3	2021.5
27752.6	60°	23409.3	15723.4	4512.0	2679.2	3016.6	3096.6	2942.2	2444.7	2067.3	1955.8
29576.8	62.5°	24573.0	15794.9	4320.4	2513.3	2770.7	2890.8	2899.4	2430.4	2013.0	1821.4
31092.3	65°	25336.5	15486.1	3985.9	2324.6	2504.8	2679.2	2816.4	2381.8	1915.7	1724.2
31841.4	67.5°	25305.0	14605.4	3462.6	2081.6	2247.4	2444.7	2696.3	2298.9	1798.5	1604.1
31275.3	70°	24127.0	12867.0	2799.3	1798.5	1964.4	2193.1	2541.9	2175.9	1658.4	1472.6
27809.8	72.5°	20692.9	10070.5	2033.0	1466.8	1635.5	1932.9	2341.8	2027.3	1515.4	1355.3
20552.8	75°	14782.7	6373.4	1378.2	1126.6	1272.4	1638.4	2093.0	1852.8	1383.9	1361.0
10293.6	77.5°	7551.5	3045.2	912.1	823.5	886.4	1292.4	1758.5	1655.5	1403.9	1123.7
2927.9	80°	2456.2	1123.7	574.7	560.4	589.0	860.7	1361.0	1358.2	1063.7	763.4
709.1	82.5°	783.5	483.2	374.6	360.3	346.0	540.4	949.3	1075.1	717.7	483.2
254.5	85°	311.7	288.8	220.2	203.0	145.8	254.5	497.5	714.8	534.7	348.8
65.8	87.5°	114.4	114.4	60.0	42.9	31.5	85.8	134.4	214.4	305.9	180.1
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>
7788.8
8392.1
8680.9
8623.7
8189.1
7482.8
6770.9
6239.0
5927.4
5804.4
5732.9
5661.5
5429.9
4900.9
4257.5
3659.9
3185.3
2862.2
2853.6
2827.9
2636.3
2301.8
2110.2
2030.1
1964.4
1821.4
1724.2
1612.7
1489.7
1346.7
1283.8
1000.8
674.8
480.4
357.4
177.3
0.0

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