

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: P955014

Luminaire Tested: **GALN-SB8A-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32529 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

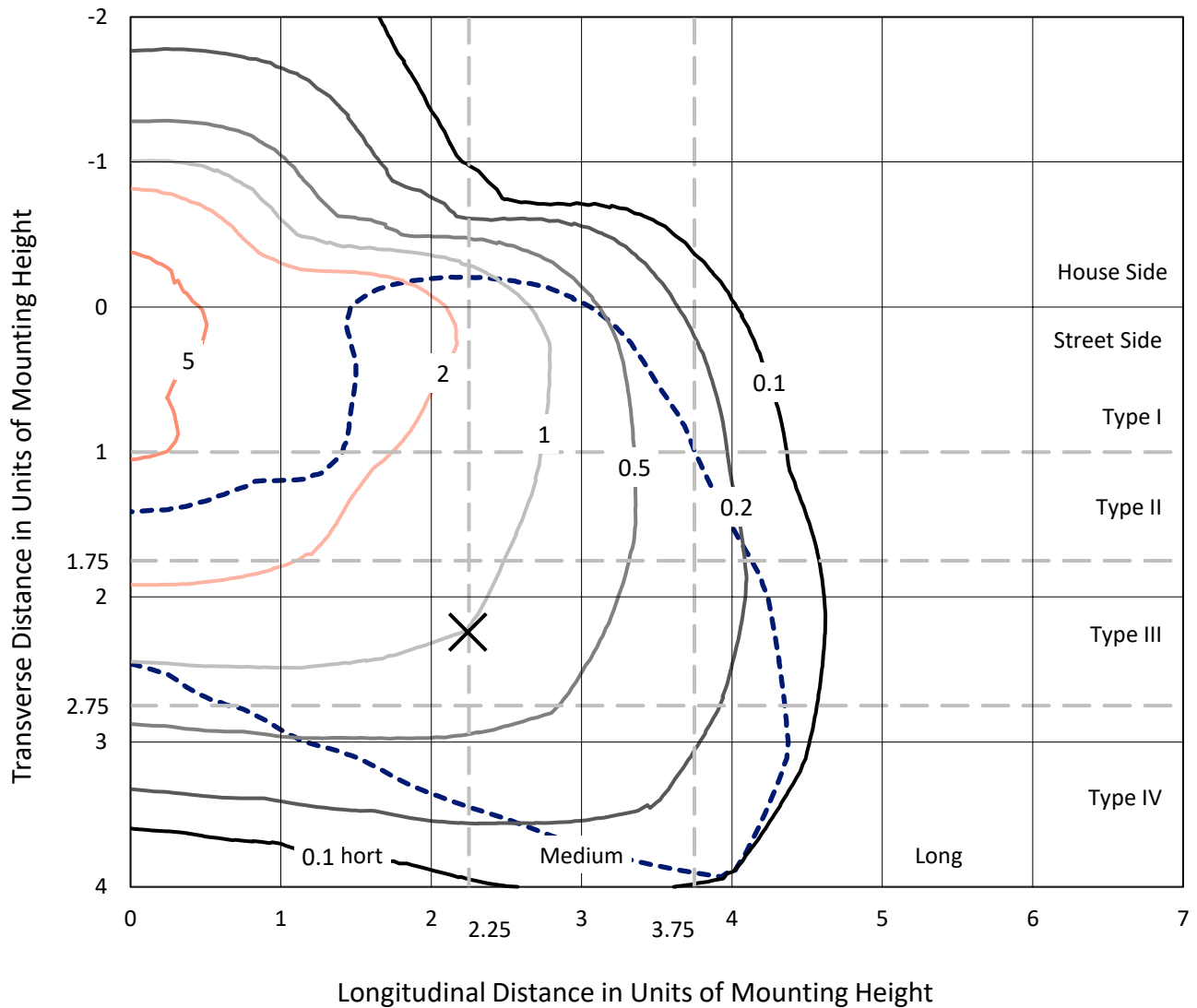
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

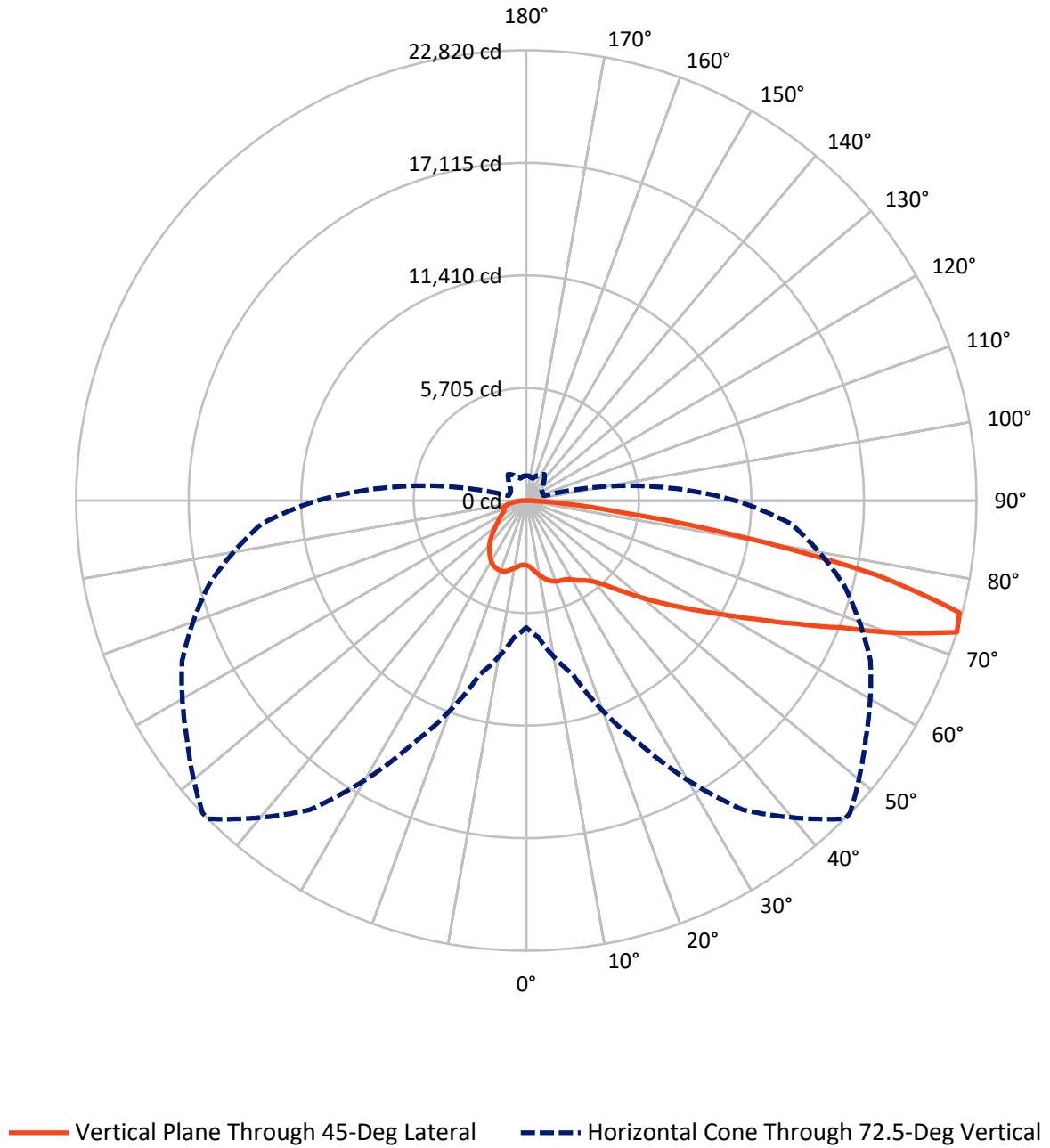
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7353.7	0.0	7353.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25175.3	0.0	25175.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	32529.0	0.0	32529.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.0	1.0
10°-20°	1113.6	3.4
20°-30°	1937.1	6.0
30°-40°	2777.0	8.5
40°-50°	3910.2	12.0
50°-60°	5989.3	18.4
60°-70°	8676.3	26.7
70°-80°	6928.6	21.3
80°-90°	862.9	2.7
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°	32529.0	100.0
0°-180°	32529.0	100.0

Coefficient of Utilization



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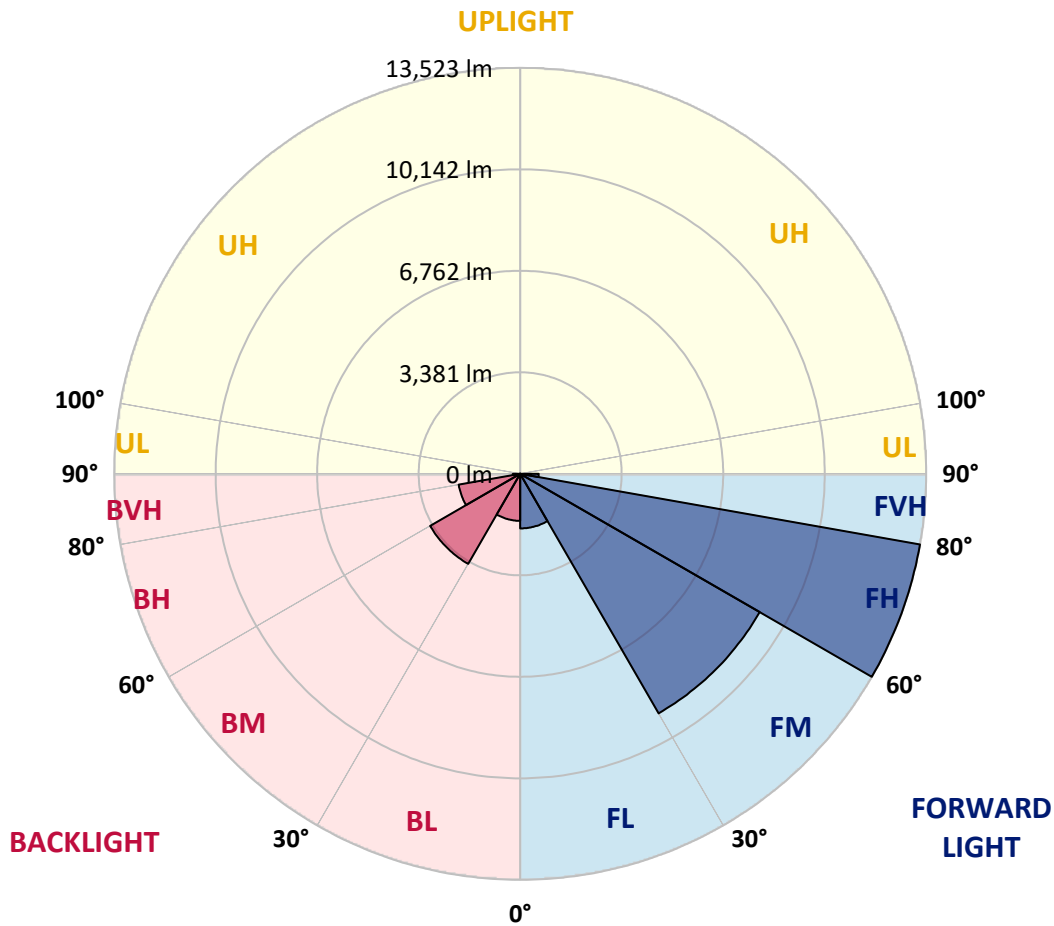
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1819.1	5.6			
FM (30°-60°)	9213.9	28.3			
FH (60°-80°)	13523.3	41.6			G5
FVH (80°-90°)	619.1	1.9			G4/750
BL (0°-30°)	1565.7	4.8	B3/2500		
BM (30°-60°)	3462.5	10.6	B3/5000		
BH (60°-80°)	2081.6	6.4	B3/2500		G3/2500
BVH (80°-90°)	243.9	0.7			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5
2.5°	3410.1	3432.3	3411.8	3392.9	3384.4	3362.1	3360.4	3346.7	3338.1	3314.1
5°	3648.3	3677.4	3643.1	3605.4	3571.1	3516.3	3509.5	3470.0	3425.5	3374.1
7.5°	3917.3	3943.0	3903.6	3847.0	3787.1	3696.2	3694.5	3622.5	3552.3	3464.9
10°	4152.1	4186.3	4133.2	4056.1	3980.7	3877.9	3865.9	3783.6	3694.5	3581.4
12.5°	4359.4	4383.4	4332.0	4237.7	4150.3	4047.5	4032.1	3941.3	3841.9	3713.4
15°	4523.9	4554.7	4486.2	4385.1	4292.6	4191.5	4177.8	4095.5	3996.1	3860.7
17.5°	4631.9	4657.6	4587.3	4474.2	4385.1	4301.1	4290.9	4222.3	4134.9	3997.8
20°	4673.0	4700.4	4626.7	4511.9	4429.7	4364.5	4359.4	4309.7	4249.7	4124.6
22.5°	4714.1	4739.8	4643.9	4523.9	4451.9	4410.8	4409.1	4376.5	4352.5	4249.7
25°	4880.3	4887.2	4758.7	4585.6	4482.8	4446.8	4445.1	4443.4	4453.6	4373.1
27.5°	5024.3	5022.6	4912.9	4750.1	4590.7	4515.3	4513.6	4530.8	4563.3	4496.5
30°	5235.0	5216.2	5086.0	4916.3	4770.7	4654.1	4643.9	4628.4	4654.1	4601.0
32.5°	5682.3	5622.3	5411.5	5110.0	4919.7	4830.6	4816.9	4721.0	4731.2	4698.7
35°	6323.2	6244.4	5963.3	5476.7	5104.8	4978.0	4971.2	4849.5	4828.9	4799.8
37.5°	7085.7	6988.1	6660.8	6007.9	5423.5	5149.4	5139.1	5029.4	4945.4	4914.6
40°	7851.7	7728.3	7457.6	6655.6	5893.1	5435.5	5403.0	5236.8	5140.8	5089.4
42.5°	8595.4	8492.6	8261.3	7382.2	6472.3	5853.7	5781.7	5497.2	5425.3	5377.3
45°	9253.4	9160.9	8991.3	8158.4	7150.9	6422.6	6352.3	5887.9	5865.7	5865.7
47.5°	9788.1	9767.5	9587.6	8950.1	7951.1	7070.3	6948.6	6431.1	6491.1	6583.6
50°	10381.0	10324.4	10132.5	9729.8	8891.9	7812.3	7712.9	7097.7	7322.2	7575.8
52.5°	10925.9	10956.8	10742.6	10542.1	9954.3	8640.0	8465.2	7884.3	8369.2	8789.1
55°	11486.3	11488.0	11428.0	11400.6	11068.1	9555.0	9363.1	8830.2	9601.3	10122.2
57.5°	12012.3	12015.8	12104.9	12346.5	12360.2	10610.6	10393.0	9992.0	10970.5	11501.7
60°	12481.9	12505.8	12749.2	13314.7	13496.3	11820.4	11614.8	11364.6	12385.9	12920.5
62.5°	12639.5	12726.9	13268.4	14072.1	14618.7	13304.4	13102.2	12953.1	13873.3	14370.2
65°	12372.2	12572.7	13619.7	14697.5	15773.7	15067.7	14867.2	14704.4	15419.0	15886.8
67.5°	11715.9	11974.6	13599.1	15353.9	17175.4	17189.1	17002.3	16620.2	17076.0	17255.9
70°	9986.9	10374.1	12401.3	15598.9	18784.5	20090.2	19910.3	18926.7	18729.6	17859.1
72.5°	6434.6	6955.5	9131.8	13582.0	19142.6	22820.0	22809.7	21008.7	19252.3	16687.0
75°	2347.6	2666.4	4242.9	8525.2	16068.4	22681.2	22748.0	20652.3	17574.7	12889.7
77.5°	855.1	935.6	1384.6	3276.4	9882.3	18198.4	18337.2	16510.5	12509.3	6468.8
80°	449.0	493.5	709.4	1271.5	4234.3	10807.7	11025.3	9812.1	5879.4	1948.4
82.5°	248.5	269.0	397.6	690.6	1907.2	4621.6	4751.8	3876.2	2068.3	826.0
85°	133.7	142.2	186.8	377.0	932.2	1602.2	1638.2	1158.4	824.2	484.9
87.5°	39.4	48.0	61.7	120.0	365.0	359.9	368.4	229.6	325.6	245.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3281.5	0°	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5
3307.2	2.5°	3297.0	3291.8	3273.0	3264.4	3254.1	3252.4	3261.0	3262.7	3264.4	3266.1
3344.9	5°	3327.8	3310.7	3293.5	3283.3	3286.7	3288.4	3305.5	3317.5	3326.1	3333.0
3415.2	7.5°	3387.8	3374.1	3344.9	3343.2	3348.4	3363.8	3386.1	3413.5	3428.9	3440.9
3506.0	10°	3476.9	3451.2	3416.9	3422.1	3432.3	3454.6	3500.9	3523.2	3548.9	3571.1
3617.4	12.5°	3567.7	3545.4	3506.0	3509.5	3526.6	3566.0	3610.6	3638.0	3655.1	3672.2
3737.4	15°	3686.0	3646.5	3603.7	3603.7	3634.5	3677.4	3697.9	3720.2	3730.5	3749.4
3865.9	17.5°	3807.6	3756.2	3699.7	3696.2	3733.9	3754.5	3766.5	3769.9	3773.3	3793.9
3991.0	20°	3929.3	3872.7	3792.2	3785.3	3793.9	3790.5	3788.8	3785.3	3790.5	3816.2
4119.5	22.5°	4049.2	3984.1	3872.7	3841.9	3817.9	3785.3	3783.6	3781.9	3785.3	3811.0
4258.3	25°	4189.8	4110.9	3961.8	3869.3	3788.8	3744.2	3749.4	3751.1	3754.5	3775.1
4402.2	27.5°	4342.3	4254.9	4044.1	3860.7	3715.1	3684.2	3675.7	3680.8	3692.8	3725.4
4546.2	30°	4494.8	4392.0	4119.5	3826.5	3622.5	3579.7	3552.3	3564.3	3602.0	3634.5
4671.3	32.5°	4633.6	4530.8	4179.5	3751.1	3504.3	3437.5	3401.5	3416.9	3454.6	3466.6
4810.1	35°	4796.4	4679.8	4205.2	3631.1	3375.8	3273.0	3225.0	3202.7	3221.6	3209.6
4972.9	37.5°	4978.0	4856.3	4201.7	3473.5	3225.0	3106.8	3039.9	2956.0	2916.5	2875.4
5212.8	40°	5247.0	5072.3	4160.6	3283.3	3038.2	2930.3	2810.3	2668.1	2579.0	2498.4
5600.0	42.5°	5613.8	5372.1	4085.2	3074.2	2827.4	2726.3	2563.5	2397.3	2256.8	2123.1
6187.8	45°	6160.4	5764.5	3991.0	2851.4	2599.5	2500.1	2323.6	2136.9	1977.5	1806.1
7022.3	47.5°	6948.6	6292.3	3901.9	2597.8	2359.6	2268.8	2109.4	1936.4	1747.9	1581.7
8228.7	50°	8031.6	7049.7	3819.6	2351.1	2123.1	2054.6	1927.8	1751.3	1561.1	1427.4
9642.4	52.5°	9409.4	8079.6	3785.3	2112.9	1902.1	1876.4	1775.3	1610.8	1430.9	1317.8
11290.9	55°	10991.0	9311.7	3785.3	1885.0	1708.5	1717.0	1646.8	1494.3	1338.3	1237.2
12990.8	57.5°	12605.2	10559.2	3716.8	1674.2	1544.0	1579.9	1535.4	1401.7	1261.2	1156.7
14778.1	60°	14092.6	11604.5	3439.2	1482.3	1398.3	1454.8	1425.7	1310.9	1139.5	1052.2
16272.3	62.5°	15235.6	12194.0	2904.6	1329.8	1278.3	1343.5	1328.0	1191.0	1117.3	1081.3
17499.3	65°	15808.0	12098.0	2220.8	1194.4	1177.2	1278.3	1245.8	1240.6	1182.4	1141.3
17898.5	67.5°	15456.7	11272.1	1610.8	1095.0	1119.0	1218.4	1343.5	1364.0	1256.1	1175.5
16774.4	70°	13916.1	9777.8	1199.5	1000.7	1045.3	1220.1	1532.0	1427.4	1232.1	1137.8
13453.5	72.5°	10586.6	7291.4	930.5	901.4	949.3	1228.7	1615.9	1398.3	1163.5	1257.8
8381.2	75°	6054.1	4003.0	747.1	779.7	829.4	1148.1	1573.1	1322.9	1110.4	1155.0
3321.0	77.5°	2308.2	1538.8	616.9	659.7	666.6	1002.5	1504.5	1317.8	1057.3	1031.6
995.6	80°	800.3	601.5	510.7	524.4	515.8	891.1	1442.9	1146.4	865.4	774.5
411.3	82.5°	327.3	299.9	404.4	387.3	366.7	692.3	1165.2	937.3	707.7	625.5
198.8	85°	142.2	190.2	267.3	234.8	212.5	479.8	933.9	793.4	598.0	515.8
65.1	87.5°	29.1	72.0	113.1	106.2	109.7	320.4	663.2	563.8	423.3	317.0
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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180°
3281.5
3273.0
3336.4
3444.3
3566.0
3679.1
3756.2
3800.8
3826.5
3828.2
3802.5
3757.9
3670.5
3509.5
3247.3
2901.1
2503.6
2111.2
1785.6
1562.8
1418.9
1309.2
1226.9
1139.5
1038.4
1069.3
1127.5
1161.8
1122.4
1247.5
1155.0
940.8
748.8
618.6
514.1
248.5
0.0

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