

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: P948156

Luminaire Tested: **GALN-SB3B-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948156
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-SB3B-750-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17469 lumens
Efficiency: N/A
Efficacy: 160.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

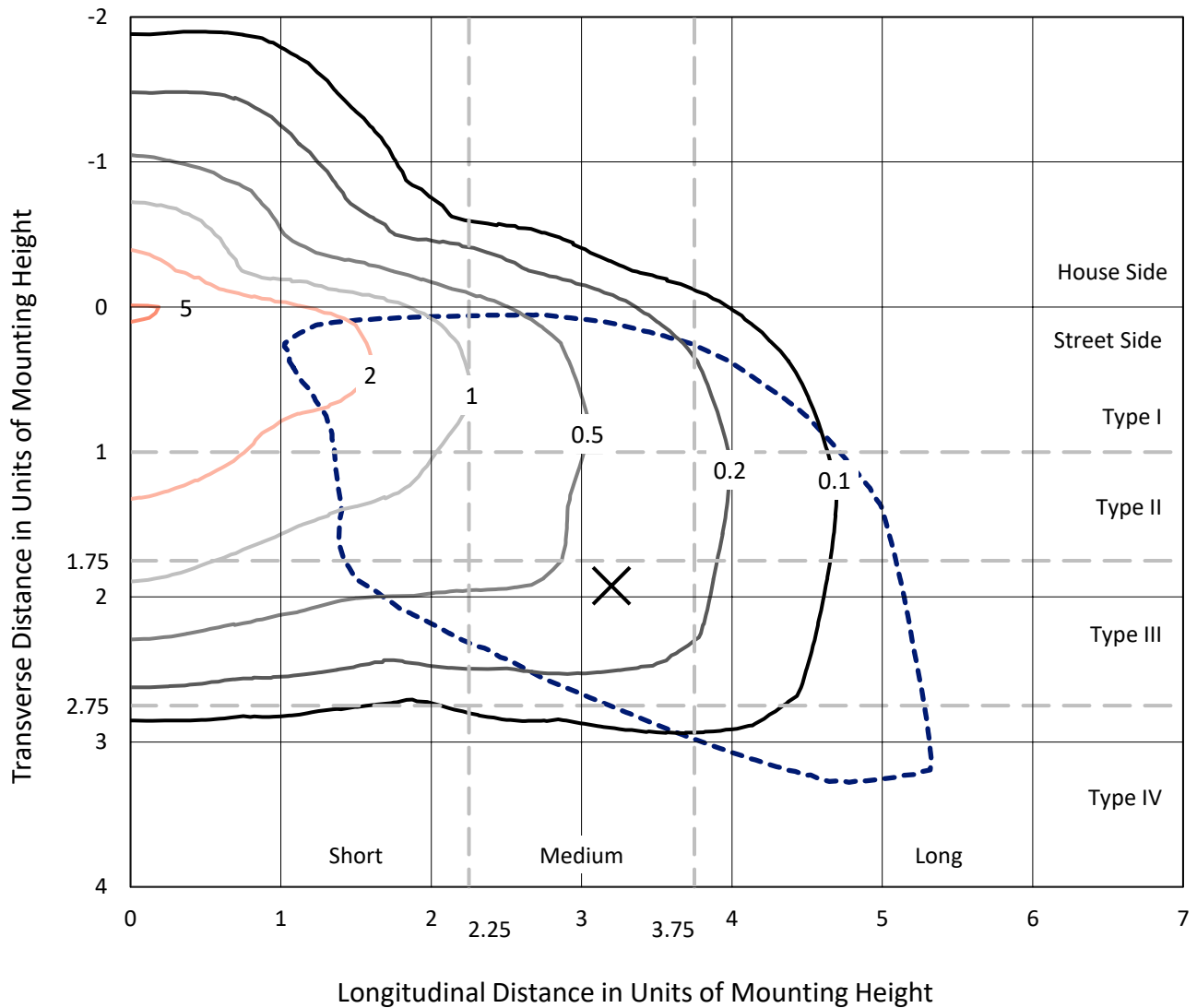
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

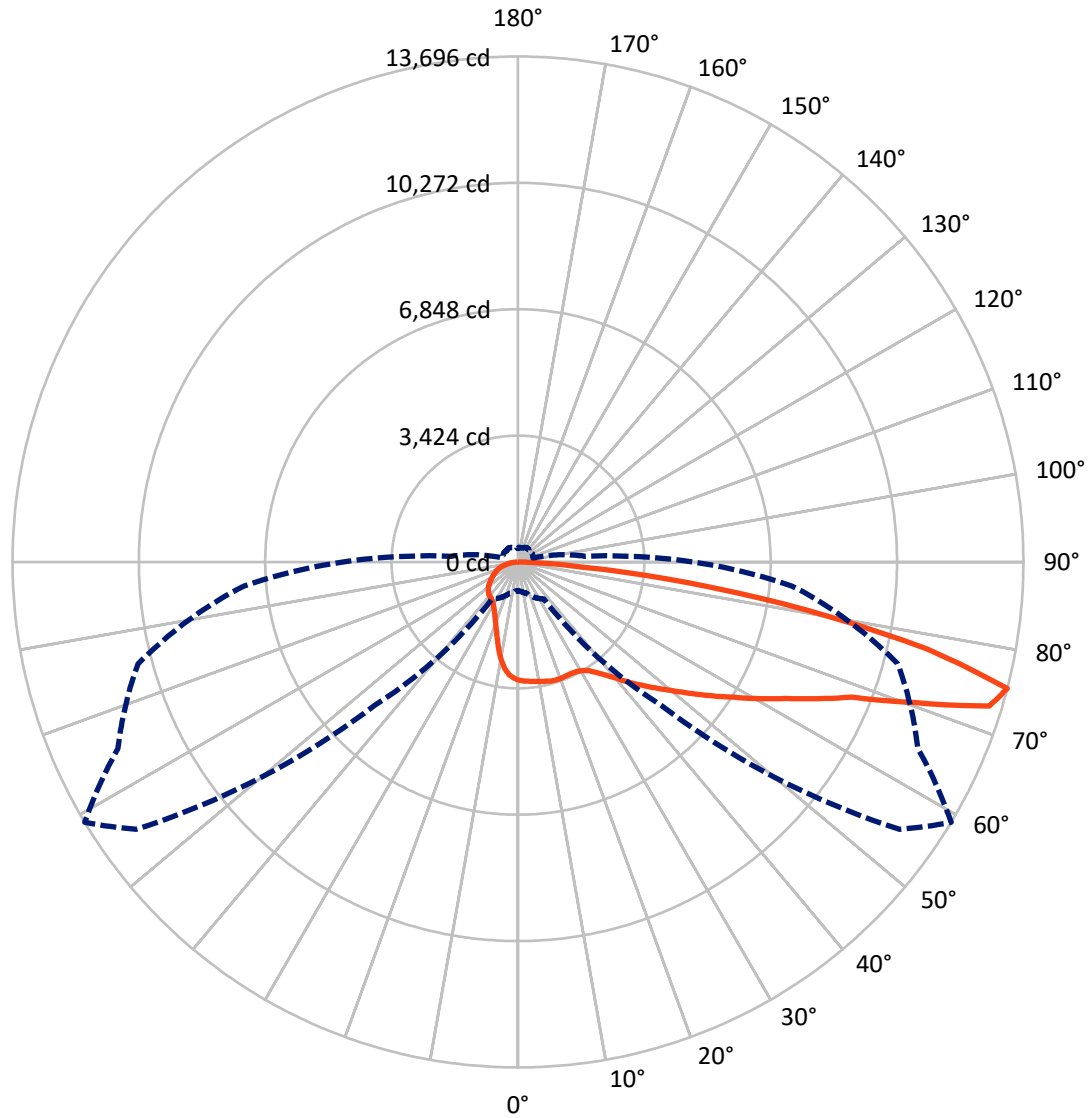
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	3276.4	0.0	3276.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	14192.6	0.0	14192.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	17469.0	0.0	17469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.5	1.6
10°-20°	734.9	4.2
20°-30°	1116.2	6.4
30°-40°	1659.2	9.5
40°-50°	2467.6	14.1
50°-60°	3349.5	19.2
60°-70°	4089.1	23.4
70°-80°	3209.1	18.4
80°-90°	555.9	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°	17469.0	100.0
0°-180°	17469.0	100.0

Coefficient of Utilization



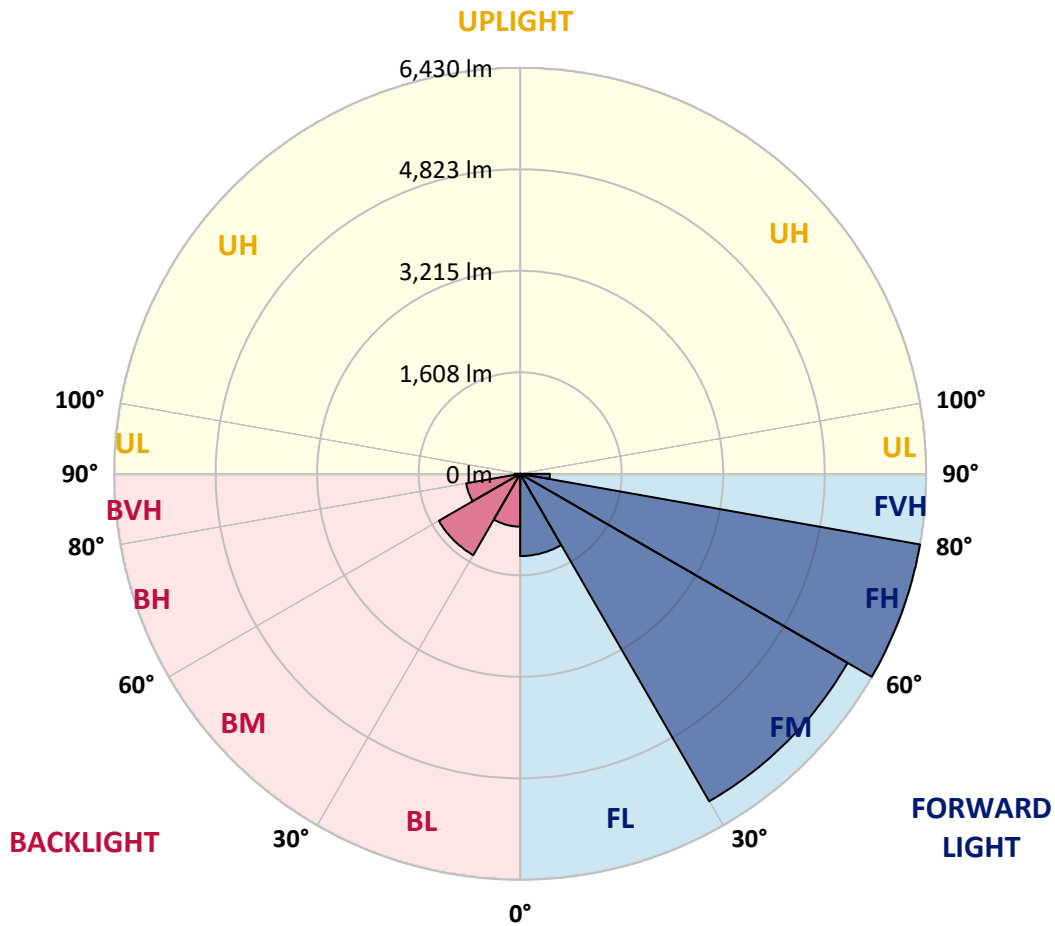
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.5	7.5			
FM	(30°-60°)	5989.1	34.3			
FH	(60°-80°)	6430.2	36.8			G3/7500
FVH	(80°-90°)	470.8	2.7			G3/500
BL	(0°-30°)	836.1	4.8	B2/1000		
BM	(30°-60°)	1487.2	8.5	B2/2500		
BH	(60°-80°)	868.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	85.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4
2.5°	3233.6	3222.4	3233.6	3228.9	3227.1	3223.3	3224.3	3230.8	3227.1	3231.8
5°	3212.0	3205.5	3216.7	3213.9	3226.1	3228.0	3240.2	3247.7	3252.4	3253.4
7.5°	3176.3	3169.7	3185.7	3198.9	3225.2	3232.7	3258.1	3270.3	3276.9	3288.2
10°	3045.7	3042.9	3082.4	3132.2	3194.2	3232.7	3271.2	3291.9	3302.2	3332.3
12.5°	2814.5	2818.3	2870.0	2965.8	3089.9	3213.9	3286.3	3316.3	3332.3	3369.9
15°	2593.7	2592.7	2649.1	2751.6	2925.4	3131.2	3293.8	3345.5	3372.7	3428.2
17.5°	2465.9	2462.1	2501.6	2579.6	2741.2	3004.4	3275.0	3361.5	3419.7	3489.3
20°	2442.4	2434.9	2455.5	2494.1	2608.7	2865.3	3226.1	3361.5	3457.3	3547.5
22.5°	2527.9	2515.7	2507.2	2502.5	2553.3	2750.6	3170.7	3350.2	3512.8	3631.2
25°	2699.9	2681.1	2637.9	2595.6	2580.5	2698.9	3121.8	3347.4	3595.4	3743.9
27.5°	2978.0	2954.5	2867.1	2765.7	2674.5	2725.2	3100.2	3364.3	3686.6	3863.3
30°	3322.9	3297.6	3187.6	3031.6	2868.1	2823.0	3127.5	3414.1	3803.1	4022.1
32.5°	3632.1	3603.9	3509.9	3351.1	3130.3	2992.1	3213.9	3509.0	3986.4	4242.9
35°	3906.5	3873.6	3789.0	3642.4	3451.7	3229.9	3369.9	3677.2	4246.7	4601.9
37.5°	4175.3	4136.7	4044.6	3889.6	3756.1	3546.6	3585.1	3893.3	4592.5	5038.0
40°	4476.0	4420.5	4308.7	4155.5	4025.9	3917.8	3868.0	4158.4	4944.0	5524.7
42.5°	4767.3	4714.7	4581.2	4450.6	4288.0	4257.0	4195.9	4468.5	5328.3	6059.4
45°	5081.2	5018.2	4856.6	4691.2	4588.8	4482.6	4513.6	4778.6	5705.2	6604.5
47.5°	5375.3	5304.8	5114.1	4929.9	4873.5	4672.4	4804.9	5119.7	6097.0	7157.1
50°	5534.1	5464.6	5305.8	5139.4	5095.3	4906.4	5120.6	5494.7	6507.7	7707.8
52.5°	5666.6	5591.5	5383.8	5291.7	5278.5	5161.1	5509.7	5923.2	6918.4	8194.5
55°	5807.6	5724.0	5459.0	5376.3	5436.4	5446.7	5971.1	6409.0	7352.5	8669.1
57.5°	5970.2	5864.0	5531.3	5447.7	5590.5	5781.3	6501.1	6912.7	7779.2	9108.9
60°	6123.4	6016.2	5670.4	5561.4	5756.9	6169.4	7109.1	7522.6	8262.2	9500.8
62.5°	6153.4	6065.1	5781.3	5780.3	5982.4	6622.4	7829.0	8138.2	8684.1	9888.0
65°	5632.8	5577.4	5409.1	5771.9	6305.7	7274.5	8630.6	8925.7	9220.7	10226.3
67.5°	4287.1	4294.6	4282.4	4982.5	6044.4	8211.5	9791.2	9768.6	9883.3	10605.9
70°	1960.3	2004.5	2292.0	3439.5	4842.5	8319.5	11710.1	11417.9	10714.9	11097.4
72.5°	1059.1	1092.9	1210.4	1666.2	2911.3	7396.7	13144.2	13351.8	11821.0	11428.2
75°	777.2	796.0	877.7	1059.1	1222.6	5497.5	12630.1	13695.8	11959.1	10656.7
77.5°	581.7	590.2	656.9	839.2	625.9	2898.2	10091.9	11342.7	10237.5	8755.6
80°	421.9	431.3	481.1	629.6	438.9	1060.0	6929.6	7961.5	7011.4	5581.1
82.5°	291.3	295.1	316.7	428.5	306.4	411.6	3931.9	4668.6	3914.0	1958.4
85°	175.7	180.4	189.8	250.0	173.9	195.5	1697.2	1755.4	1170.0	468.0
87.5°	72.4	77.1	84.6	105.3	68.6	54.5	280.0	351.5	219.0	137.2
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°
3206.4	0°	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4	3206.4
3215.8	2.5°	3211.1	3204.5	3186.7	3162.2	3139.7	3111.5	3099.3	3088.9	3079.5	3061.7
3241.2	5°	3230.8	3213.0	3165.0	3103.0	3032.5	2955.5	2880.3	2828.6	2784.5	2751.6
3270.3	7.5°	3260.9	3227.1	3139.7	3012.8	2851.2	2685.8	2536.4	2430.2	2350.3	2321.2
3311.6	10°	3291.9	3251.5	3099.3	2875.6	2596.5	2341.8	2143.5	2034.5	1970.6	1950.0
3360.5	12.5°	3328.6	3269.4	3036.3	2684.8	2311.8	2032.7	1859.7	1795.8	1763.0	1751.7
3420.7	15°	3382.1	3284.4	2941.4	2446.1	2040.2	1807.1	1695.3	1651.1	1634.2	1633.3
3482.7	17.5°	3422.5	3287.2	2793.8	2190.5	1831.6	1670.9	1578.8	1561.8	1573.1	1590.0
3543.8	20°	3467.6	3261.8	2600.3	1957.5	1685.0	1551.5	1513.0	1524.3	1551.5	1575.9
3624.6	22.5°	3499.6	3215.8	2366.3	1776.1	1558.1	1482.9	1481.0	1504.5	1519.6	1531.8
3719.5	25°	3527.8	3137.8	2118.2	1623.9	1453.8	1441.6	1462.2	1454.7	1444.4	1454.7
3814.4	27.5°	3548.5	3014.7	1896.4	1490.4	1380.5	1413.4	1401.2	1384.2	1383.3	1388.9
3926.2	30°	3541.9	2850.2	1714.1	1363.6	1328.8	1360.7	1331.6	1328.8	1326.0	1328.8
4094.5	32.5°	3541.9	2663.2	1574.1	1276.2	1295.9	1283.7	1280.9	1274.3	1263.0	1262.1
4322.8	35°	3561.6	2476.2	1453.8	1229.2	1268.7	1239.5	1241.4	1225.4	1201.9	1190.7
4625.4	37.5°	3602.0	2325.9	1334.4	1206.6	1220.7	1219.8	1212.3	1185.0	1143.7	1108.0
5003.2	40°	3699.8	2281.7	1252.7	1196.3	1198.2	1209.4	1189.7	1137.1	1043.1	984.8
5386.6	42.5°	3852.9	2355.9	1234.8	1170.9	1183.1	1194.4	1155.9	1033.7	967.0	932.2
5788.8	45°	4047.5	2485.6	1273.3	1134.3	1147.4	1167.2	1052.5	994.2	964.2	965.1
6187.3	47.5°	4293.7	2621.9	1344.8	1102.3	1095.7	1107.0	983.9	948.2	906.8	917.2
6569.7	50°	4578.4	2760.0	1412.4	1059.1	1038.4	1001.8	939.7	905.9	853.3	828.9
6939.0	52.5°	4886.7	2893.5	1439.7	1006.5	976.4	934.1	909.7	868.3	804.4	764.0
7287.7	55°	5178.9	3014.7	1409.6	943.5	914.4	881.5	877.7	852.3	783.7	727.4
7597.8	57.5°	5455.2	3116.2	1334.4	879.6	851.4	831.7	857.0	844.8	758.4	686.0
7891.0	60°	5689.2	3185.7	1225.4	814.8	795.0	784.7	823.2	819.5	722.7	641.8
8154.1	62.5°	5875.3	3213.0	1105.1	752.7	748.0	729.2	776.2	776.2	677.6	598.6
8385.3	65°	6020.9	3186.7	983.0	691.6	701.0	672.9	718.9	713.3	629.6	560.1
8651.3	67.5°	6149.7	3100.2	847.6	631.5	653.1	617.4	658.8	645.6	577.0	521.6
8881.5	70°	6207.0	2899.1	693.5	571.4	597.7	562.9	598.6	574.2	517.8	480.2
8628.7	72.5°	5746.5	2409.5	546.0	508.4	531.0	502.8	533.8	505.6	453.9	437.0
7451.2	75°	4754.1	1808.1	420.1	439.8	456.7	435.1	455.8	435.1	388.1	400.3
5504.1	77.5°	3452.6	1220.7	321.4	367.4	375.0	363.7	381.5	358.0	315.8	312.9
2743.1	80°	1716.9	715.1	251.9	290.4	287.6	280.0	300.7	289.4	253.7	268.8
740.5	82.5°	497.1	306.4	183.2	203.9	198.3	200.2	215.2	220.8	330.8	328.0
230.2	85°	156.0	120.3	109.9	113.7	108.1	110.9	126.9	251.9	233.1	136.3
71.4	87.5°	40.4	41.3	27.3	29.1	30.1	35.7	40.4	153.2	73.3	47.9
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>
3206.4
3053.2
2724.3
2270.4
1918.0
1754.5
1637.0
1596.6
1584.4
1538.4
1461.3
1398.3
1339.1
1274.3
1201.9
1120.2
992.4
932.2
969.8
943.5
835.4
763.1
727.4
682.3
639.0
595.8
556.3
517.8
472.7
422.9
365.6
298.8
265.9
335.5
147.5
50.7
0.0

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