

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: P951934

Luminaire Tested: **GALN-SB5D-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37023 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

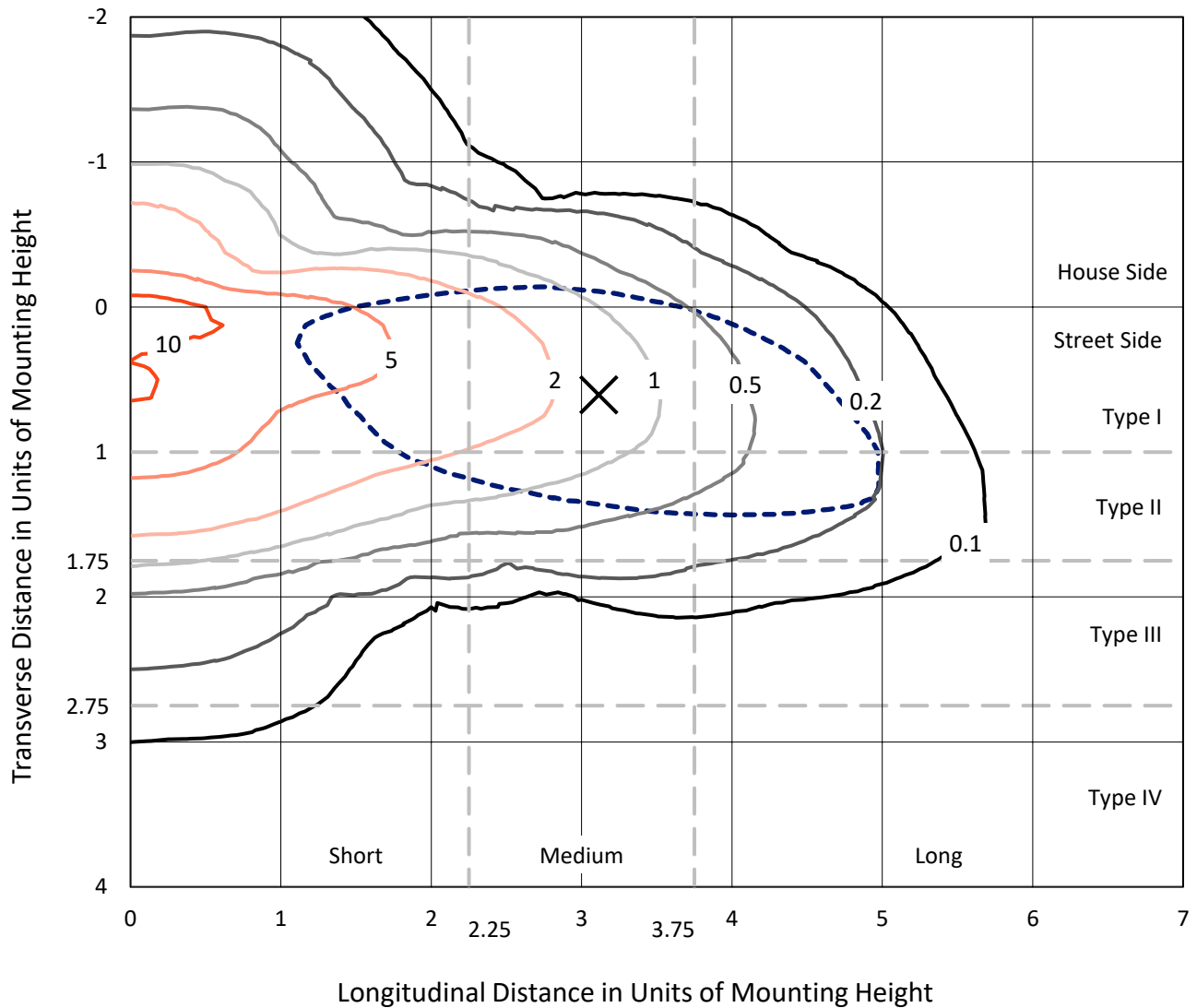
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

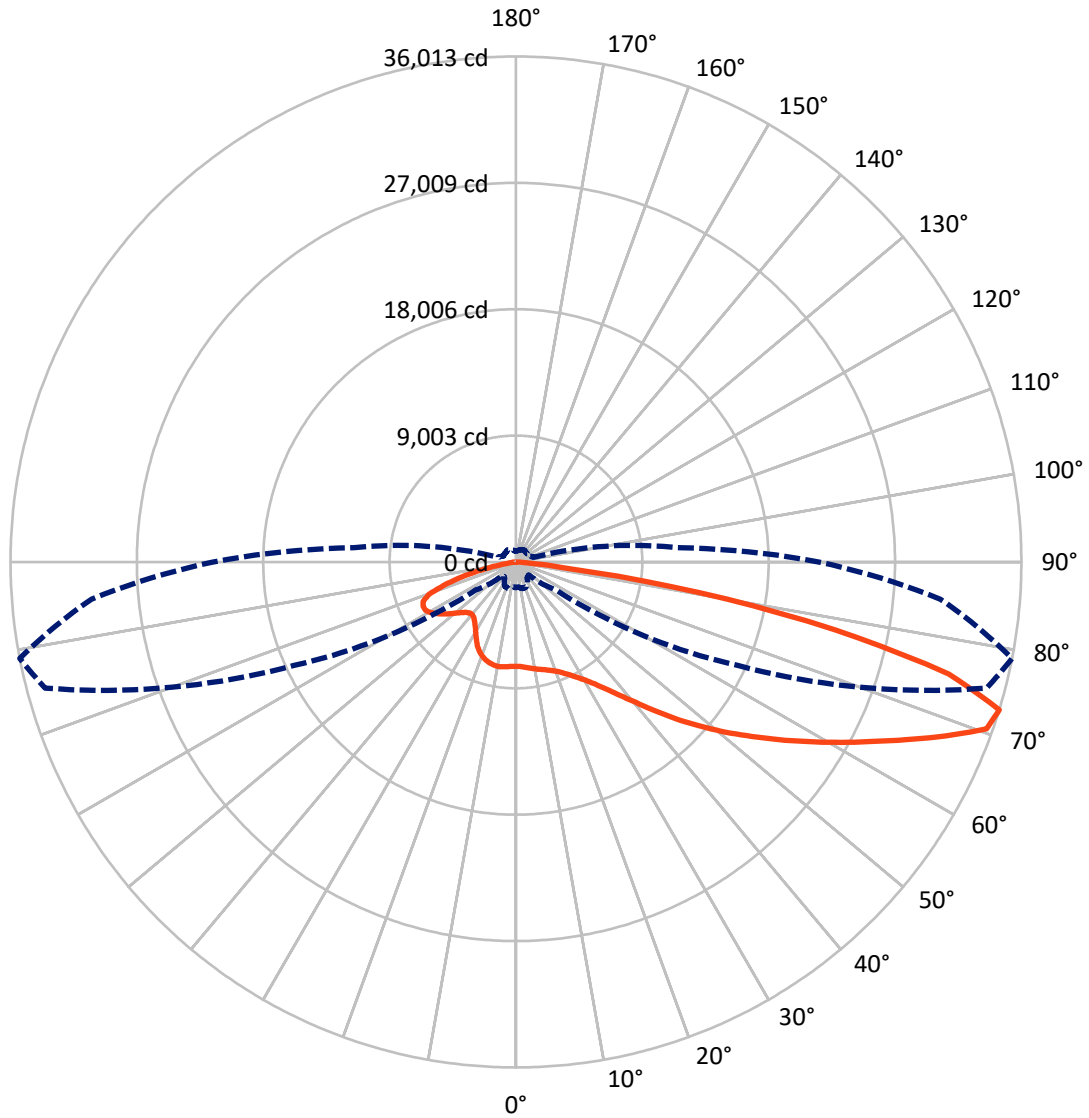
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8147.1	0.0	8147.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28875.9	0.0	28875.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	37023.0	0.0	37023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.6	1.8
10°-20°	1763.8	4.8
20°-30°	2846.0	7.7
30°-40°	4271.5	11.5
40°-50°	6059.3	16.4
50°-60°	7652.1	20.7
60°-70°	7771.7	21.0
70°-80°	5296.8	14.3
80°-90°	687.2	1.9
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°	37023.0	100.0
0°-180°	37023.0	100.0

Coefficient of Utilization



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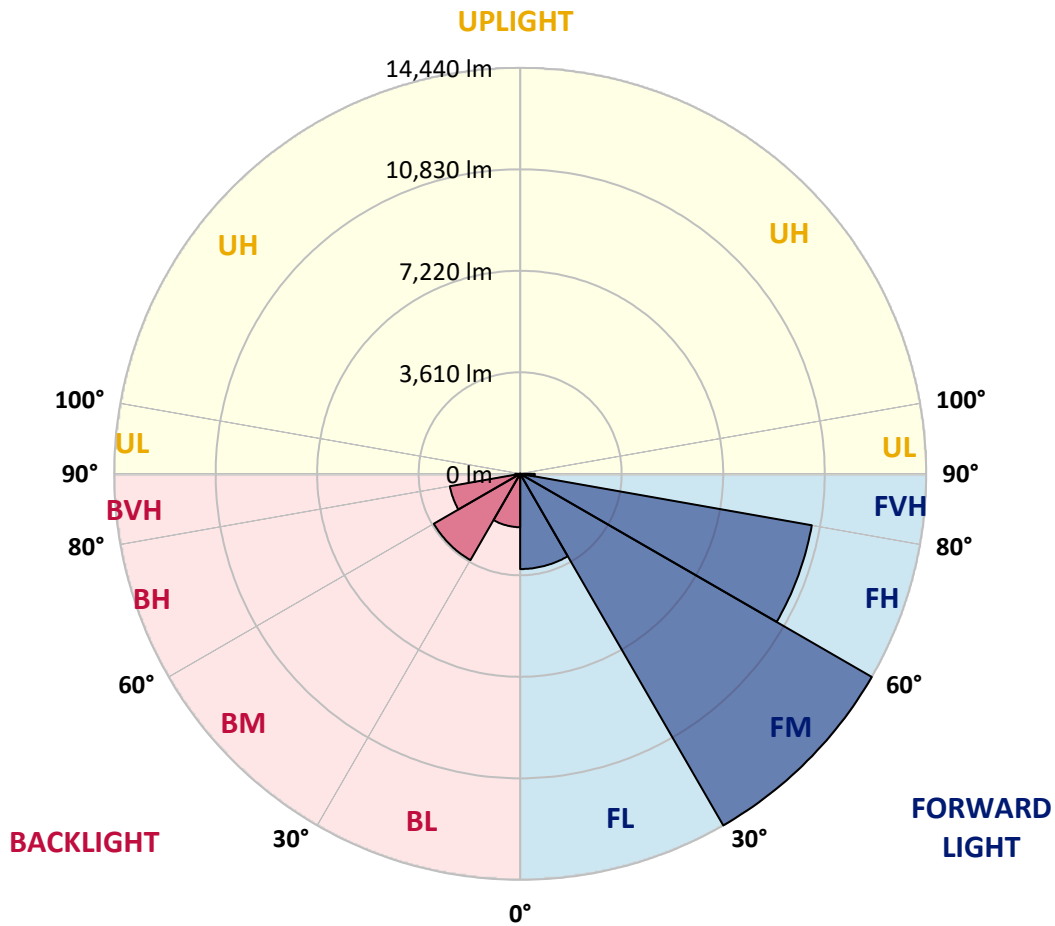
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3386.7	9.1			
FM (30°-60°)	14439.7	39.0			
FH (60°-80°)	10531.8	28.4			G4/12000
FVH (80°-90°)	517.7	1.4			G4/750
BL (0°-30°)	1897.7	5.1	B3/2500		
BM (30°-60°)	3543.1	9.6	B3/5000		
BH (60°-80°)	2536.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	169.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0
2.5°	7435.9	7400.7	7422.2	7414.4	7424.2	7435.9	7439.8	7445.7	7465.3	7463.3
5°	7420.3	7385.0	7414.4	7404.6	7430.1	7457.5	7481.0	7502.5	7533.9	7547.6
7.5°	7387.0	7363.5	7392.8	7422.2	7469.2	7510.4	7543.6	7592.6	7637.6	7645.5
10°	7193.1	7175.5	7244.0	7320.4	7449.6	7561.3	7633.7	7690.5	7739.5	7747.3
12.5°	6991.4	6969.8	7046.2	7150.0	7359.6	7561.3	7714.0	7788.4	7831.5	7857.0
15°	6958.1	6940.5	6983.5	7073.6	7247.9	7508.4	7768.9	7905.9	7943.1	7972.5
17.5°	7118.7	7085.4	7103.0	7134.3	7236.2	7459.4	7811.9	8039.1	8095.9	8127.2
20°	7490.8	7443.8	7416.3	7353.7	7336.1	7467.3	7808.0	8199.7	8274.1	8313.3
22.5°	7986.2	7954.9	7896.1	7737.5	7565.2	7563.2	7882.4	8405.3	8544.4	8581.6
25°	8585.5	8538.5	8464.1	8248.7	7917.7	7753.2	8007.8	8667.7	8900.8	8910.6
27.5°	9274.8	9204.3	9102.5	8818.5	8372.0	8050.9	8199.7	8969.3	9310.1	9306.2
30°	10001.4	9930.9	9823.2	9478.5	8916.5	8452.3	8466.0	9294.4	9795.8	9774.2
32.5°	10532.1	10479.2	10457.7	10191.4	9543.1	8926.3	8771.5	9654.8	10395.0	10375.4
35°	10939.5	10870.9	10896.4	10761.2	10226.6	9457.0	9145.6	10083.6	11123.5	11121.6
37.5°	11342.9	11282.2	11303.7	11213.6	10859.2	10130.6	9601.9	10608.5	12026.4	12069.4
40°	11711.1	11646.4	11732.6	11648.4	11350.7	10847.4	10120.9	11201.9	13072.1	13154.4
42.5°	11932.4	11881.4	12024.4	12026.4	11777.6	11452.5	10690.7	11856.0	14282.4	14466.5
45°	12008.7	11991.1	12206.5	12251.6	12155.6	11803.1	11203.8	12568.8	15586.7	15915.7
47.5°	11926.5	11893.2	12190.9	12357.3	12433.7	11967.6	11628.8	13340.4	16918.4	17400.1
50°	11511.3	11446.7	11889.3	12239.8	12512.0	12075.3	12057.7	14231.5	18432.2	18959.0
52.5°	10765.2	10716.2	11219.5	11828.6	12339.7	12128.2	12539.4	15204.8	19869.6	20551.1
55°	9811.4	9746.8	10301.0	11096.1	11910.8	12110.6	13021.2	16293.6	21565.6	22256.9
57.5°	8299.6	8170.3	8871.4	9811.4	11211.7	12089.0	13522.5	17376.6	23288.9	24117.3
60°	6094.4	5902.5	6762.3	7876.6	9844.7	11879.5	14143.4	18590.8	25357.0	26103.1
62.5°	3548.6	3436.9	3999.0	5038.9	7420.3	10645.7	14491.9	20002.8	27389.8	28173.1
65°	2755.4	2724.1	2773.1	2853.3	4130.2	7970.6	13416.8	21379.5	29974.8	30523.2
67.5°	2520.4	2496.9	2518.5	2367.7	2095.5	4439.6	10614.4	21728.1	32744.0	33076.9
70°	2240.4	2213.0	2283.5	2154.2	1648.9	2019.1	6858.2	20463.0	34947.1	35571.8
72.5°	1825.2	1793.9	1958.4	1899.6	1388.5	1296.4	3444.8	17456.9	34716.0	36012.5
75°	1402.2	1384.6	1580.4	1629.4	1131.9	1020.3	1652.9	12976.2	30550.6	31856.8
77.5°	1088.9	1075.1	1175.0	1353.2	912.6	791.2	1016.4	8231.0	23022.6	23251.7
80°	816.6	777.5	869.5	1047.7	710.9	577.7	689.3	4800.0	14552.6	13191.6
82.5°	511.1	491.6	567.9	699.1	501.3	397.5	448.5	2651.6	5832.0	3435.0
85°	291.8	284.0	309.4	399.5	272.2	229.1	256.5	1171.1	1065.4	732.4
87.5°	117.5	113.6	141.0	178.2	99.9	84.2	90.1	282.0	235.0	217.4
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°
7432.0	0°	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0	7432.0
7461.4	2.5°	7453.6	7453.6	7426.1	7383.1	7334.1	7302.8	7251.8	7238.1	7185.3	7169.6
7528.0	5°	7543.6	7528.0	7443.8	7322.3	7155.9	7003.1	6834.7	6729.0	6580.1	6527.2
7659.2	7.5°	7657.2	7614.1	7469.2	7202.9	6854.3	6511.6	6155.2	5884.9	5626.4	5534.4
7766.9	10°	7761.0	7700.3	7453.6	6987.5	6384.3	5790.9	5223.0	4825.4	4523.8	4400.5
7886.4	12.5°	7864.8	7753.2	7349.8	6629.1	5716.5	4911.6	4306.5	3997.0	3811.0	3662.2
7984.3	15°	7962.7	7806.1	7189.2	6149.3	4984.1	4167.4	3720.9	3474.1	3325.3	3227.4
8127.2	17.5°	8076.3	7851.1	6948.3	5540.2	4286.9	3652.4	3288.1	3139.3	3109.9	3098.1
8323.1	20°	8234.9	7892.2	6631.0	4858.7	3773.8	3241.1	3053.1	3039.4	3037.4	3031.6
8558.1	22.5°	8405.3	7941.2	6212.0	4239.9	3337.1	2984.6	2951.3	2923.8	2906.2	2904.3
8842.0	25°	8607.0	7956.9	5687.1	3732.7	2965.0	2863.1	2824.0	2782.8	2771.1	2771.1
9165.2	27.5°	8802.9	7904.0	5076.1	3292.0	2755.4	2751.5	2700.6	2686.9	2684.9	2690.8
9533.3	30°	8998.7	7804.1	4469.0	2884.7	2634.0	2634.0	2616.4	2626.2	2634.0	2653.6
10038.6	32.5°	9263.1	7698.4	3961.8	2583.1	2528.3	2508.7	2526.3	2545.9	2553.7	2579.2
10702.5	35°	9650.8	7623.9	3558.4	2418.6	2418.6	2393.1	2402.9	2399.0	2381.4	2369.6
11505.4	37.5°	10163.9	7620.0	3225.4	2342.2	2326.5	2322.6	2324.6	2299.1	2230.6	2148.3
12476.8	40°	10780.8	7725.8	2968.9	2289.3	2277.6	2301.1	2289.3	2220.8	2032.8	1889.8
13671.4	42.5°	11609.2	8027.4	2804.4	2224.7	2260.0	2289.3	2242.3	2005.4	1878.1	1782.1
15032.5	45°	12584.5	8517.0	2720.2	2156.2	2226.7	2261.9	2034.7	1931.0	1829.1	1713.6
16516.9	47.5°	13689.0	9133.8	2700.6	2091.5	2152.2	2173.8	1946.6	1899.6	1784.1	1658.7
18009.2	50°	14891.4	9864.3	2753.5	2015.2	2044.5	1970.1	1917.2	1874.2	1754.7	1631.3
19538.7	52.5°	16135.0	10669.2	2859.2	1911.4	1936.8	1854.6	1905.5	1868.3	1737.1	1570.6
21119.1	55°	17357.0	11480.0	2961.1	1790.0	1827.2	1750.8	1872.2	1844.8	1656.8	1468.8
22805.2	57.5°	18598.6	12286.8	3060.9	1682.2	1721.4	1650.9	1819.3	1782.1	1566.7	1374.8
24646.1	60°	19889.2	13070.2	3107.9	1578.4	1605.9	1558.9	1739.0	1674.4	1464.9	1278.8
26455.6	62.5°	21097.5	13722.3	3031.6	1474.7	1492.3	1472.7	1633.3	1547.1	1363.0	1171.1
28341.5	65°	22309.8	14110.1	2796.6	1372.8	1376.7	1366.9	1484.4	1410.0	1243.6	1077.1
29992.4	67.5°	23408.4	14327.4	2422.5	1263.1	1253.4	1249.4	1345.4	1261.2	1128.0	983.1
31247.8	70°	23641.4	13775.2	1850.7	1133.9	1133.9	1124.1	1192.6	1106.5	1000.7	883.2
30348.9	72.5°	21593.0	11587.7	1314.1	987.0	1002.7	983.1	1039.9	967.4	871.5	793.1
26156.0	75°	17411.9	8497.4	955.7	836.2	863.6	830.3	883.2	832.3	750.1	748.1
18024.8	77.5°	11963.7	5254.3	693.3	689.3	708.9	665.8	726.6	699.1	624.7	591.4
7845.2	80°	5105.5	2095.5	505.3	532.7	532.7	493.5	564.0	571.8	507.2	491.6
1513.8	82.5°	1016.4	595.3	354.5	366.2	344.7	332.9	399.5	442.6	611.0	679.6
456.3	85°	305.5	219.3	213.5	199.8	176.3	178.2	235.0	444.6	548.3	313.3
150.8	87.5°	84.2	54.8	56.8	45.0	37.2	49.0	80.3	336.8	184.1	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>
7432.0
7195.1
6566.4
5546.1
4427.9
3711.1
3245.0
3106.0
3051.1
2925.8
2782.8
2706.5
2667.3
2600.7
2397.0
2150.3
1885.9
1778.2
1705.7
1648.9
1617.6
1558.9
1459.0
1370.9
1272.9
1169.1
1065.4
971.4
879.3
769.6
673.7
554.2
491.6
681.5
270.3
66.6
0.0

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