

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: P951682

Luminaire Tested: **GALN-SB5D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951682
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-735-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 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: 51092 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

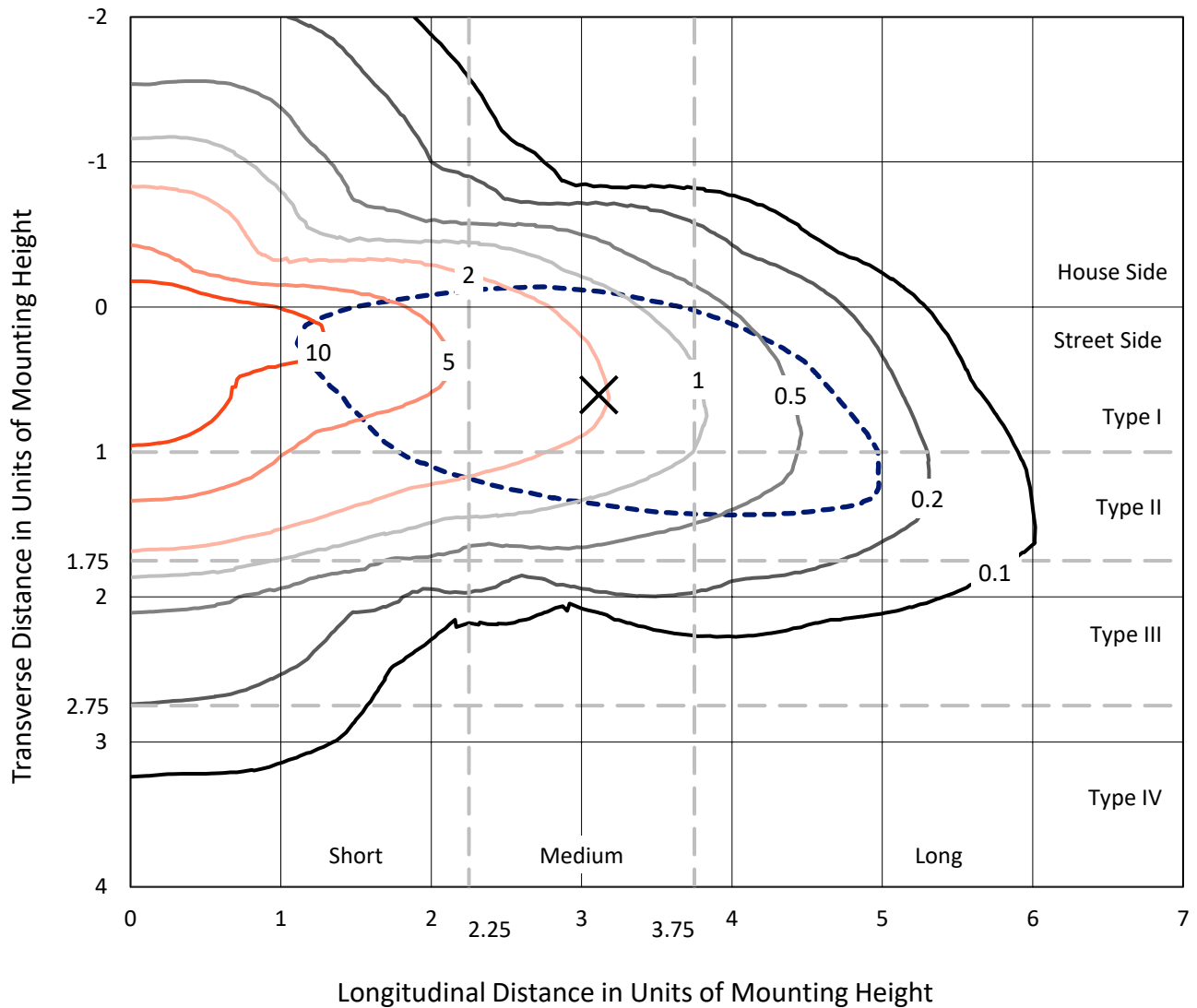
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

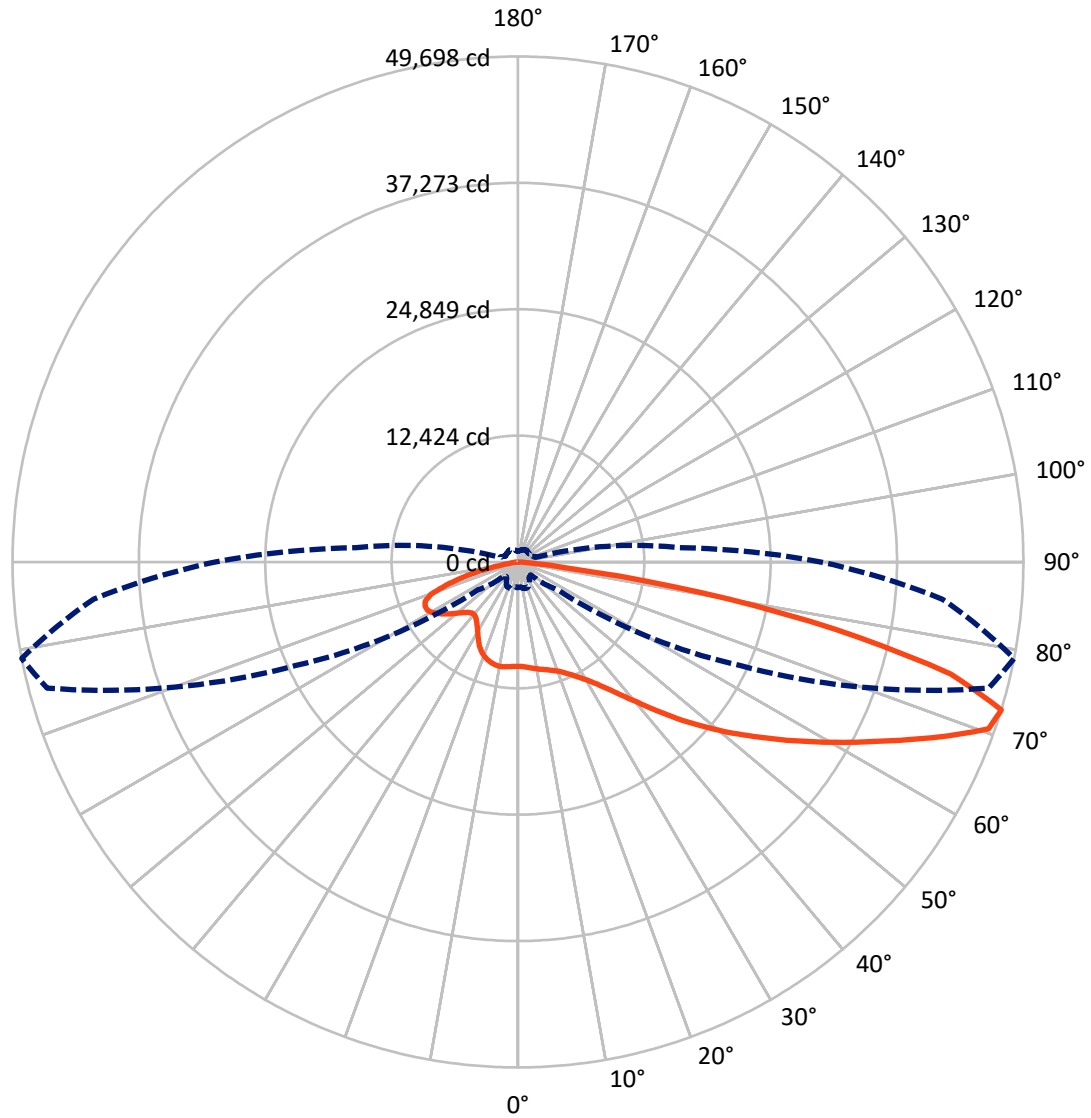
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	11243.0	0.0	11243.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	39849.0	0.0	39849.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	51092.0	0.0	51092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.0	1.8
10°-20°	2434.0	4.8
20°-30°	3927.5	7.7
30°-40°	5894.6	11.5
40°-50°	8361.9	16.4
50°-60°	10559.9	20.7
60°-70°	10725.1	21.0
70°-80°	7309.6	14.3
80°-90°	948.4	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°	51092.0	100.0
0°-180°	51092.0	100.0

Coefficient of Utilization



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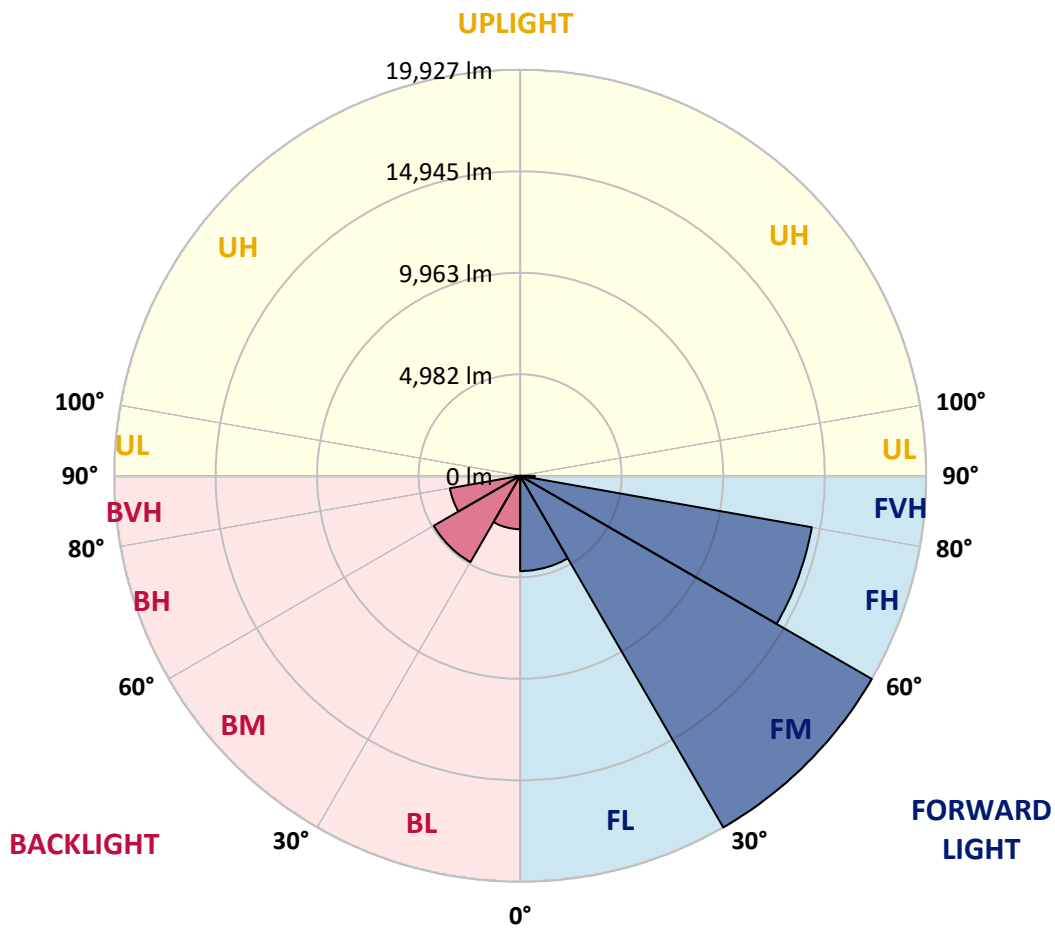
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4673.7	9.1			
FM (30°-60°)	19926.9	39.0			
FH (60°-80°)	14533.9	28.4			G5
FVH (80°-90°)	714.4	1.4			G4/750
BL (0°-30°)	2618.8	5.1	B4/5000		
BM (30°-60°)	4889.5	9.6	B3/5000		
BH (60°-80°)	3500.7	6.9	B4/5000		G4/5000
BVH (80°-90°)	234.0	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2
2.5°	10261.6	10213.0	10242.7	10231.9	10245.4	10261.6	10267.0	10275.2	10302.2	10299.5
5°	10240.0	10191.4	10231.9	10218.4	10253.5	10291.4	10323.8	10353.5	10396.8	10415.7
7.5°	10194.1	10161.6	10202.2	10242.7	10307.6	10364.3	10410.3	10477.8	10540.0	10550.8
10°	9926.5	9902.2	9996.8	10102.2	10280.6	10434.6	10534.6	10613.0	10680.5	10691.3
12.5°	9648.2	9618.4	9723.8	9867.1	10156.2	10434.6	10645.4	10748.1	10807.6	10842.7
15°	9602.2	9577.9	9637.3	9761.7	10002.2	10361.6	10721.1	10910.3	10961.6	11002.1
17.5°	9823.8	9777.9	9802.2	9845.4	9986.0	10294.1	10780.5	11094.0	11172.4	11215.6
20°	10337.3	10272.4	10234.6	10148.1	10123.8	10304.9	10775.1	11315.6	11418.3	11472.4
22.5°	11021.1	10977.8	10896.7	10677.8	10440.0	10437.3	10877.8	11599.4	11791.3	11842.6
25°	11848.0	11783.2	11680.5	11383.2	10926.5	10699.5	11050.8	11961.6	12283.2	12296.7
27.5°	12799.3	12702.1	12561.5	12169.6	11553.5	11110.2	11315.6	12377.7	12848.0	12842.6
30°	13802.0	13704.7	13556.1	13080.4	12304.8	11664.3	11683.2	12826.4	13518.2	13488.5
32.5°	14534.4	14461.4	14431.7	14064.1	13169.6	12318.3	12104.8	13323.6	14345.2	14318.2
35°	15096.5	15001.9	15037.1	14850.6	14112.8	13050.7	12621.0	13915.5	15350.6	15347.9
37.5°	15653.3	15569.5	15599.2	15474.9	14985.7	13980.4	13250.7	14639.8	16596.5	16655.9
40°	16161.3	16072.2	16191.1	16074.9	15664.1	14969.5	13966.9	15458.7	18039.6	18153.1
42.5°	16466.7	16396.5	16593.7	16596.5	16253.2	15804.6	14753.3	16361.3	19709.8	19963.8
45°	16572.1	16547.8	16845.1	16907.2	16774.8	16288.4	15461.4	17345.1	21509.7	21963.7
47.5°	16458.6	16412.7	16823.5	17053.2	17158.6	16515.4	16047.8	18409.9	23347.5	24012.3
50°	15885.7	15796.5	16407.3	16891.0	17266.7	16664.0	16639.7	19639.5	25436.5	26163.5
52.5°	14856.0	14788.4	15483.0	16323.5	17028.9	16737.0	17304.5	20982.7	27420.2	28360.7
55°	13539.8	13450.7	14215.5	15312.7	16437.0	16712.7	17969.4	22485.3	29760.6	30714.6
57.5°	11453.5	11275.1	12242.6	13539.8	15472.2	16682.9	18661.2	23979.9	32138.9	33282.1
60°	8410.4	8145.5	9332.0	10869.7	13585.8	16393.8	19517.9	25655.4	34992.8	36022.5
62.5°	4897.0	4743.0	5518.6	6953.7	10240.0	14691.1	19999.0	27604.0	37798.1	38879.1
65°	3802.5	3759.3	3826.8	3937.6	5699.7	10999.4	18515.3	29503.9	41365.5	42122.2
67.5°	3478.2	3445.8	3475.5	3267.4	2891.7	6126.7	14647.9	29985.0	45186.9	45646.3
70°	3091.7	3053.9	3151.2	2972.8	2275.6	2786.3	9464.4	28239.1	48227.3	49089.4
72.5°	2518.8	2475.5	2702.6	2621.5	1916.1	1789.1	4753.8	24090.7	47908.4	49697.5
75°	1935.0	1910.7	2181.0	2248.5	1562.1	1408.0	2281.0	17907.2	42160.0	43962.6
77.5°	1502.6	1483.7	1621.5	1867.5	1259.4	1091.8	1402.6	11358.9	31771.4	32087.6
80°	1127.0	1072.9	1199.9	1445.9	981.0	797.3	951.3	6624.0	20082.8	18204.5
82.5°	705.4	678.3	783.7	964.8	691.9	548.6	618.9	3659.3	8048.2	4740.3
85°	402.7	391.9	427.0	551.3	375.7	316.2	354.0	1616.1	1470.2	1010.8
87.5°	162.2	156.7	194.6	245.9	137.8	116.2	124.3	389.2	324.3	300.0
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°
10256.2	0°	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2	10256.2
10296.8	2.5°	10286.0	10286.0	10248.1	10188.7	10121.1	10077.9	10007.6	9988.7	9915.7	9894.1
10388.7	5°	10410.3	10388.7	10272.4	10104.9	9875.2	9664.4	9432.0	9286.0	9080.6	9007.6
10569.7	7.5°	10567.0	10507.6	10307.6	9940.0	9459.0	8986.0	8494.2	8121.2	7764.5	7637.4
10718.4	10°	10710.3	10626.5	10286.0	9642.8	8810.4	7991.5	7207.7	6659.1	6242.9	6072.7
10883.2	12.5°	10853.5	10699.5	10142.7	9148.2	7888.8	6778.0	5942.9	5515.9	5259.2	5053.8
11018.4	15°	10988.6	10772.4	9921.1	8486.1	6878.0	5751.1	5134.9	4794.3	4589.0	4453.8
11215.6	17.5°	11145.4	10834.6	9588.7	7645.6	5915.9	5040.3	4537.6	4332.2	4291.7	4275.5
11485.9	20°	11364.3	10891.3	9150.9	6705.1	5207.8	4472.7	4213.3	4194.4	4191.7	4183.6
11810.2	22.5°	11599.4	10958.9	8572.5	5851.1	4605.2	4118.7	4072.8	4034.9	4010.6	4007.9
12202.1	25°	11877.8	10980.5	7848.2	5151.1	4091.7	3951.1	3897.1	3840.3	3824.1	3824.1
12648.0	27.5°	12148.0	10907.6	7005.0	4543.0	3802.5	3797.1	3726.8	3707.9	3705.2	3713.3
13156.1	30°	12418.3	10769.7	6167.3	3980.9	3634.9	3634.9	3610.6	3624.1	3634.9	3662.0
13853.3	32.5°	12783.1	10623.8	5467.3	3564.7	3489.0	3462.0	3486.3	3513.3	3524.1	3559.3
14769.5	35°	13318.2	10521.1	4910.6	3337.7	3337.7	3302.5	3316.0	3310.6	3286.3	3270.1
15877.6	37.5°	14026.3	10515.7	4451.1	3232.3	3210.6	3205.2	3207.9	3172.8	3078.2	2964.7
17218.0	40°	14877.6	10661.6	4097.1	3159.3	3143.1	3175.5	3159.3	3064.7	2805.3	2608.0
18866.6	42.5°	16020.8	11077.8	3870.1	3070.1	3118.8	3159.3	3094.4	2767.4	2591.8	2459.3
20744.9	45°	17366.7	11753.5	3753.9	2975.5	3072.8	3121.5	2808.0	2664.7	2524.2	2364.7
22793.4	47.5°	18890.9	12604.8	3726.8	2886.3	2970.1	2999.8	2686.3	2621.5	2462.0	2289.1
24852.8	50°	20550.3	13612.8	3799.8	2780.9	2821.5	2718.8	2645.8	2586.4	2421.5	2251.2
26963.5	52.5°	22266.4	14723.6	3945.7	2637.7	2672.8	2559.3	2629.6	2578.2	2397.2	2167.5
29144.5	55°	23952.8	15842.4	4086.3	2470.1	2521.5	2416.1	2583.7	2545.8	2286.4	2026.9
31471.4	57.5°	25666.3	16955.9	4224.1	2321.5	2375.6	2278.3	2510.7	2459.3	2162.1	1897.2
34011.8	60°	27447.2	18036.9	4289.0	2178.3	2216.1	2151.2	2399.9	2310.7	2021.5	1764.8
36508.9	62.5°	29114.7	18936.9	4183.6	2035.0	2059.4	2032.3	2253.9	2135.0	1881.0	1616.1
39111.5	65°	30787.6	19472.0	3859.3	1894.5	1899.9	1886.4	2048.5	1945.8	1716.1	1486.4
41389.8	67.5°	32303.8	19772.0	3343.1	1743.2	1729.6	1724.2	1856.7	1740.5	1556.7	1356.7
43122.1	70°	32625.4	19009.8	2553.9	1564.8	1564.8	1551.3	1645.9	1526.9	1381.0	1218.9
41881.6	72.5°	29798.5	15991.1	1813.4	1362.1	1383.7	1356.7	1435.1	1335.1	1202.6	1094.5
36095.5	75°	24028.5	11726.4	1318.9	1154.0	1191.8	1145.9	1218.9	1148.6	1035.1	1032.4
24874.4	77.5°	16510.0	7251.0	956.7	951.3	978.3	918.9	1002.7	964.8	862.1	816.2
10826.5	80°	7045.6	2891.7	697.3	735.1	735.1	681.0	778.3	789.1	700.0	678.3
2089.1	82.5°	1402.6	821.6	489.2	505.4	475.7	459.4	551.3	610.8	843.2	937.8
629.7	85°	421.6	302.7	294.6	275.7	243.2	245.9	324.3	613.5	756.7	432.4
208.1	87.5°	116.2	75.7	78.4	62.2	51.3	67.6	110.8	464.8	254.0	108.1
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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180°
10256.2
9929.2
9061.7
7653.7
6110.5
5121.4
4478.1
4286.3
4210.6
4037.6
3840.3
3734.9
3680.9
3589.0
3307.9
2967.4
2602.6
2453.9
2353.9
2275.6
2232.3
2151.2
2013.4
1891.8
1756.7
1613.4
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