

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: P953488

Luminaire Tested: **GALN-SB7A-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953488
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-SB7A-740-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33546 lumens
Efficiency: N/A
Efficacy: 168.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

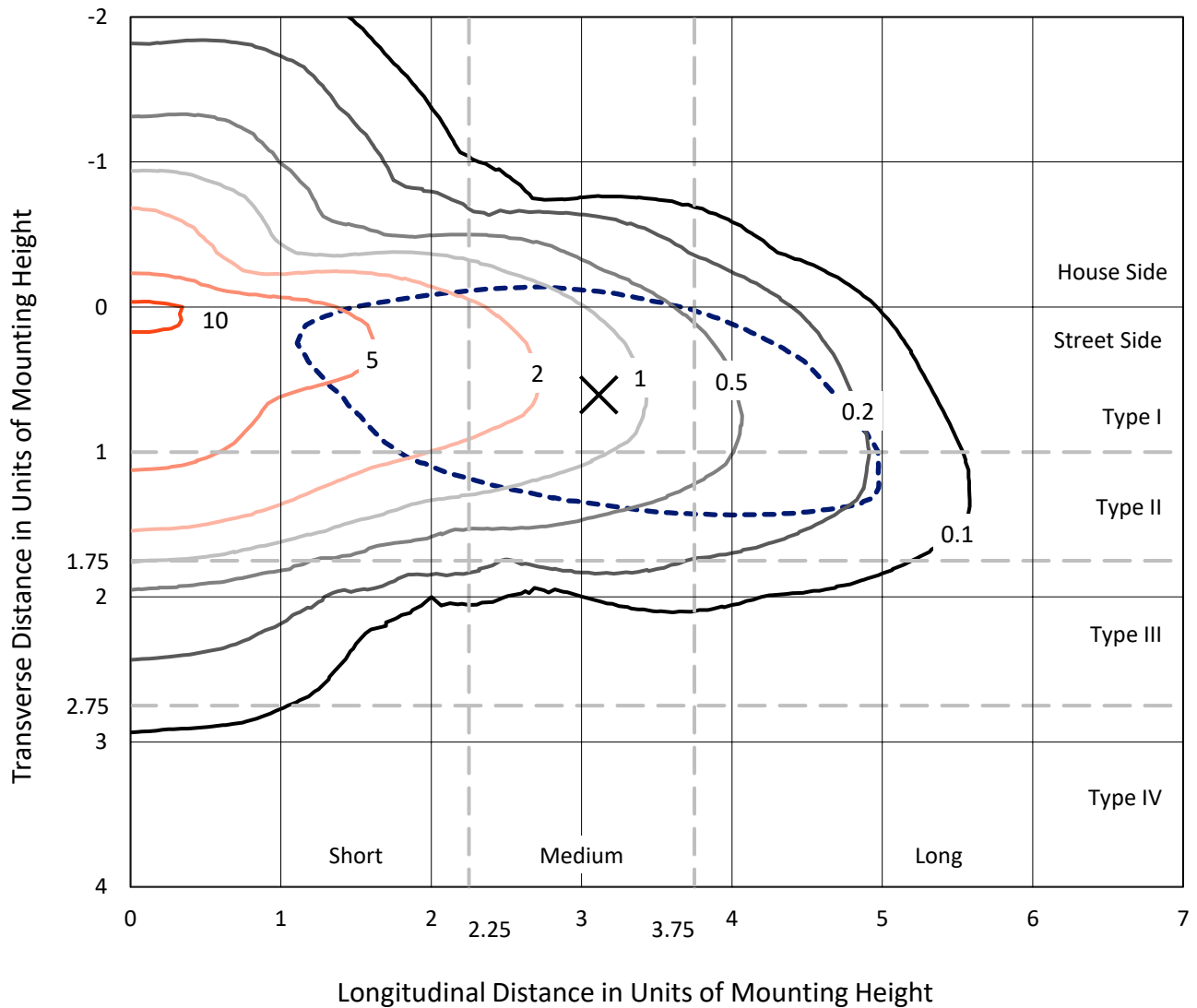
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953488
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Iso-Footcandle Lines of Horizontal Illumination

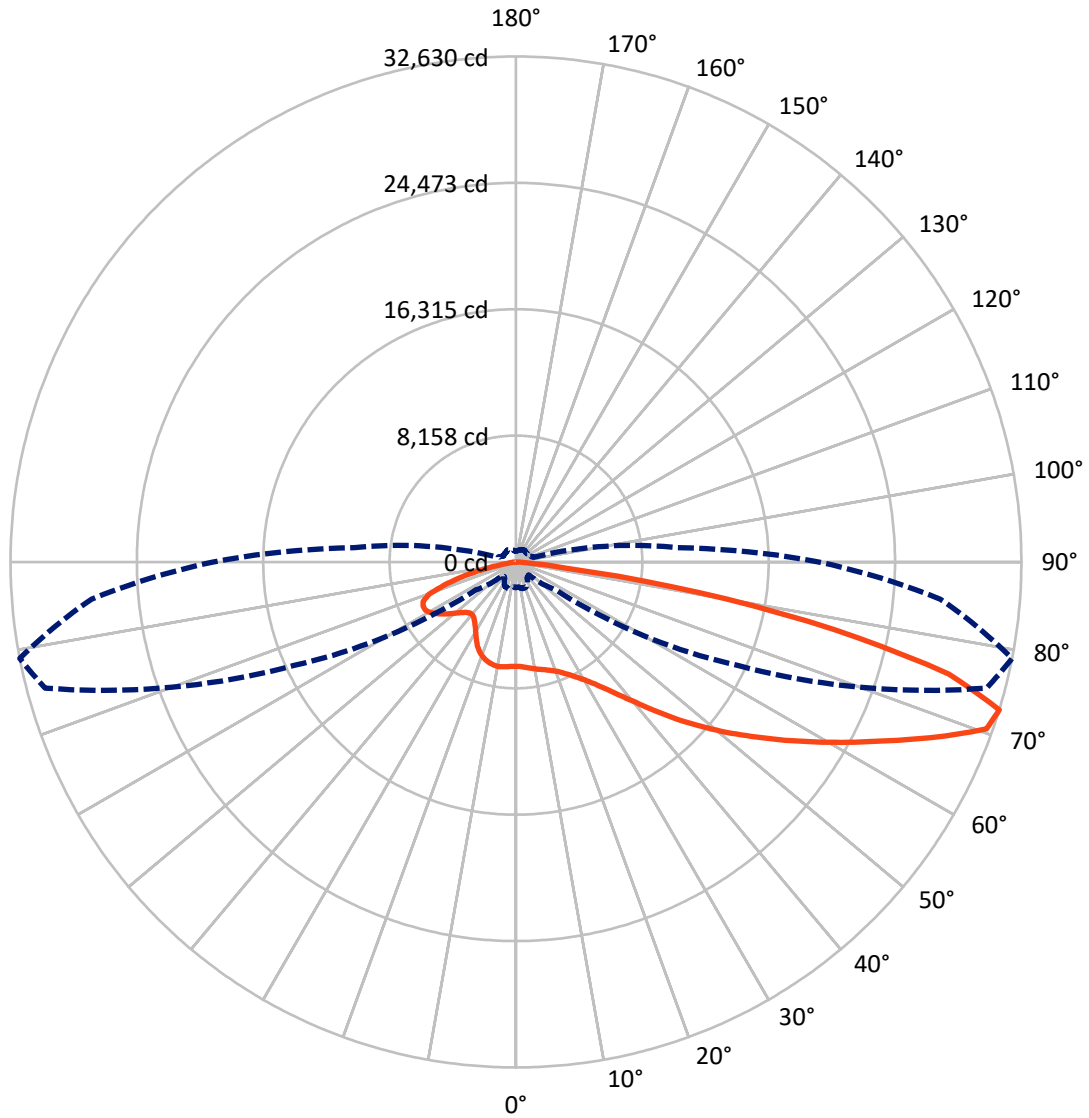
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P953488
CATALOG NUMBER: GALN-SB7A-740-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P953488

CATALOG NUMBER: GALN-SB7A-740-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7382.0	0.0	7382.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26164.0	0.0	26164.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	33546.0	0.0	33546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.3	1.8
10°-20°	1598.1	4.8
20°-30°	2578.7	7.7
30°-40°	3870.3	11.5
40°-50°	5490.2	16.4
50°-60°	6933.5	20.7
60°-70°	7041.9	21.0
70°-80°	4799.3	14.3
80°-90°	622.7	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°	33546.0	100.0
0°-180°	33546.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953488

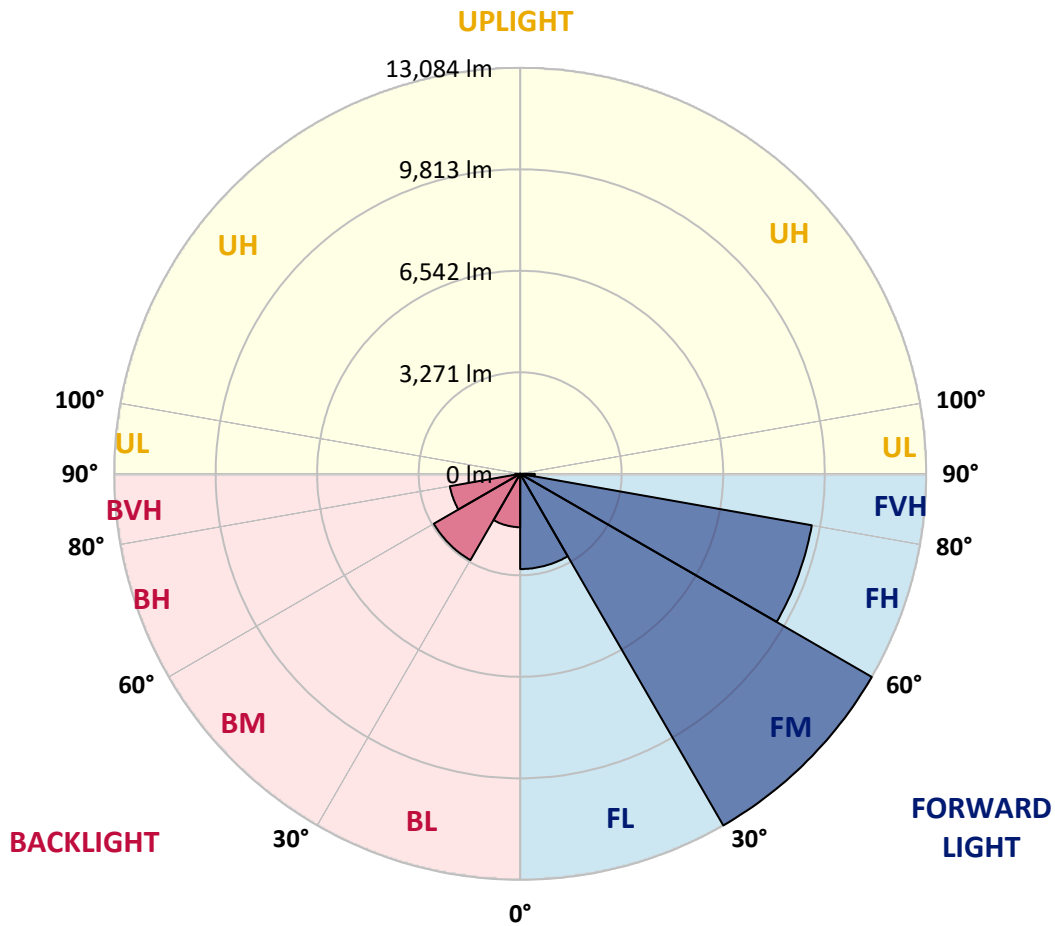
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3068.6	9.1			
FM (30°-60°)	13083.6	39.0			
FH (60°-80°)	9542.7	28.4			G4/12000
FVH (80°-90°)	469.1	1.4			G3/500
BL (0°-30°)	1719.5	5.1	B3/2500		
BM (30°-60°)	3210.4	9.6	B3/5000		
BH (60°-80°)	2298.5	6.9	B3/2500		G3/2500
BVH (80°-90°)	153.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



REPORT NUMBER: P953488
 CATALOG NUMBER: GALN-SB7A-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0
2.5°	6737.6	6705.6	6725.2	6718.1	6726.9	6737.6	6741.1	6746.5	6764.2	6762.4
5°	6723.4	6691.5	6718.1	6709.2	6732.3	6757.1	6778.4	6797.9	6826.3	6838.7
7.5°	6693.2	6671.9	6698.6	6725.2	6767.8	6805.0	6835.2	6879.5	6920.4	6927.5
10°	6517.6	6501.6	6563.7	6632.9	6750.0	6851.2	6916.8	6968.3	7012.6	7019.7
12.5°	6334.8	6315.3	6384.5	6478.5	6668.4	6851.2	6989.6	7057.0	7096.0	7119.1
15°	6304.6	6288.7	6327.7	6409.3	6567.2	6803.2	7039.2	7163.5	7197.2	7223.8
17.5°	6450.1	6420.0	6435.9	6464.3	6556.6	6758.9	7078.3	7284.1	7335.6	7364.0
20°	6787.3	6744.7	6719.8	6663.1	6647.1	6766.0	7074.7	7429.6	7497.1	7532.5
22.5°	7236.2	7207.8	7154.6	7010.9	6854.7	6852.9	7142.2	7615.9	7741.9	7775.6
25°	7779.2	7736.6	7669.2	7474.0	7174.1	7025.1	7255.7	7853.7	8064.9	8073.8
27.5°	8403.8	8339.9	8247.6	7990.4	7585.8	7294.8	7429.6	8127.0	8435.7	8432.2
30°	9062.1	8998.2	8900.6	8588.3	8079.1	7658.5	7671.0	8421.5	8875.8	8856.3
32.5°	9543.0	9495.1	9475.6	9234.2	8646.9	8087.9	7947.8	8748.0	9418.8	9401.0
35°	9912.1	9850.0	9873.0	9750.6	9266.2	8568.8	8286.7	9136.6	10078.9	10077.1
37.5°	10277.6	10222.6	10242.1	10160.5	9839.3	9179.2	8700.1	9612.2	10896.9	10935.9
40°	10611.2	10552.7	10630.7	10554.4	10284.7	9828.7	9170.4	10149.9	11844.5	11919.0
42.5°	10811.7	10765.6	10895.1	10896.9	10671.5	10377.0	9686.7	10742.5	12941.1	13107.9
45°	10880.9	10865.0	11060.2	11101.0	11014.0	10694.6	10151.6	11388.4	14122.9	14421.0
47.5°	10806.4	10776.2	11046.0	11196.8	11266.0	10843.7	10536.7	12087.6	15329.5	15766.0
50°	10430.2	10371.7	10772.7	11090.3	11337.0	10941.3	10925.3	12894.9	16701.1	17178.5
52.5°	9754.2	9709.8	10165.8	10717.7	11180.8	10989.2	11361.8	13776.8	18003.6	18621.1
55°	8890.0	8831.4	9333.6	10054.0	10792.2	10973.2	11798.3	14763.4	19540.3	20166.6
57.5°	7520.1	7403.0	8038.3	8890.0	10158.7	10953.7	12252.6	15744.7	21101.8	21852.4
60°	5522.1	5348.2	6127.2	7136.8	8920.2	10763.8	12815.1	16844.9	22975.6	23651.7
62.5°	3215.3	3114.2	3623.4	4565.7	6723.4	9645.9	13130.9	18124.2	24817.5	25527.2
65°	2496.7	2468.3	2512.6	2585.4	3742.3	7222.0	12156.8	19371.7	27159.7	27656.6
67.5°	2283.7	2262.4	2281.9	2145.3	1898.7	4022.7	9617.5	19687.5	29668.8	29970.5
70°	2030.0	2005.1	2069.0	1951.9	1494.1	1829.5	6214.1	18541.2	31665.1	32231.1
72.5°	1653.8	1625.4	1774.5	1721.2	1258.1	1174.7	3121.3	15817.5	31455.7	32630.4
75°	1270.5	1254.5	1432.0	1476.3	1025.6	924.5	1497.6	11757.5	27681.4	28865.0
77.5°	986.6	974.2	1064.7	1226.1	826.9	716.9	920.9	7458.0	20860.4	21068.1
80°	739.9	704.5	787.9	949.3	644.1	523.5	624.6	4349.2	13185.9	11952.7
82.5°	463.1	445.4	514.6	633.5	454.3	360.2	406.3	2402.6	5284.3	3112.4
85°	264.4	257.3	280.4	362.0	246.6	207.6	232.5	1061.1	965.3	663.6
87.5°	106.5	102.9	127.8	161.5	90.5	76.3	81.6	255.5	212.9	197.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953488
 CATALOG NUMBER: GALN-SB7A-740-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6734.0	0°	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0	6734.0
6760.7	2.5°	6753.6	6753.6	6728.7	6689.7	6645.3	6616.9	6570.8	6558.4	6510.5	6496.3
6821.0	5°	6835.2	6821.0	6744.7	6634.7	6483.8	6345.4	6192.8	6097.0	5962.2	5914.2
6939.9	7.5°	6938.1	6899.1	6767.8	6526.4	6210.6	5900.0	5577.1	5332.2	5098.0	5014.6
7037.5	10°	7032.1	6977.1	6753.6	6331.2	5784.7	5247.1	4732.5	4372.2	4099.0	3987.2
7145.7	12.5°	7126.2	7025.1	6659.5	6006.5	5179.6	4450.3	3902.0	3621.7	3453.1	3318.2
7234.4	15°	7214.9	7073.0	6514.0	5571.8	4516.0	3776.0	3371.5	3147.9	3013.0	2924.3
7364.0	17.5°	7317.8	7113.8	6295.8	5019.9	3884.3	3309.4	2979.3	2844.4	2817.8	2807.2
7541.4	20°	7461.6	7151.0	6008.3	4402.4	3419.4	2936.7	2766.4	2753.9	2752.2	2746.8
7754.3	22.5°	7615.9	7195.4	5628.6	3841.7	3023.7	2704.3	2674.1	2649.3	2633.3	2631.5
8011.6	25°	7798.7	7209.6	5153.0	3382.1	2686.5	2594.2	2558.8	2521.5	2510.8	2510.8
8304.4	27.5°	7976.2	7161.7	4599.4	2982.9	2496.7	2493.1	2447.0	2434.5	2432.8	2438.1
8638.0	30°	8153.6	7071.2	4049.3	2613.8	2386.6	2386.6	2370.7	2379.5	2386.6	2404.4
9095.8	32.5°	8393.2	6975.4	3589.7	2340.5	2290.8	2273.1	2289.0	2306.8	2313.9	2337.0
9697.4	35°	8744.5	6907.9	3224.2	2191.4	2191.4	2168.4	2177.3	2173.7	2157.7	2147.1
10424.9	37.5°	9209.4	6904.4	2922.5	2122.2	2108.0	2104.5	2106.3	2083.2	2021.1	1946.6
11305.0	40°	9768.4	7000.2	2690.1	2074.3	2063.7	2085.0	2074.3	2012.2	1841.9	1712.3
12387.4	42.5°	10518.9	7273.5	2541.0	2015.8	2047.7	2074.3	2031.7	1817.0	1701.7	1614.8
13620.7	45°	11402.6	7717.1	2464.7	1953.7	2017.6	2049.5	1843.7	1749.6	1657.3	1552.6
14965.7	47.5°	12403.4	8276.0	2447.0	1895.1	1950.1	1969.6	1763.8	1721.2	1616.5	1503.0
16317.8	50°	13492.9	8937.9	2494.9	1825.9	1852.5	1785.1	1737.2	1698.1	1589.9	1478.1
17703.7	52.5°	14619.7	9667.2	2590.7	1731.9	1754.9	1680.4	1726.5	1692.8	1573.9	1423.1
19135.7	55°	15727.0	10401.8	2683.0	1621.8	1655.6	1586.4	1696.4	1671.5	1501.2	1330.8
20663.5	57.5°	16852.0	11132.9	2773.5	1524.3	1559.7	1495.9	1648.5	1614.8	1419.6	1245.7
22331.5	60°	18021.3	11842.7	2816.1	1430.2	1455.0	1412.5	1575.7	1517.2	1327.3	1158.7
23971.1	62.5°	19116.2	12433.6	2746.8	1336.2	1352.1	1334.4	1479.9	1401.8	1235.0	1061.1
25679.9	65°	20214.5	12784.9	2533.9	1243.9	1247.4	1238.6	1345.0	1277.6	1126.8	975.9
27175.7	67.5°	21210.0	12981.9	2195.0	1144.5	1135.6	1132.1	1219.0	1142.7	1022.1	890.8
28313.1	70°	21421.2	12481.5	1676.9	1027.4	1027.4	1018.5	1080.6	1002.6	906.7	800.3
27498.7	72.5°	19565.1	10499.4	1190.7	894.3	908.5	890.8	942.2	876.6	789.6	718.7
23699.6	75°	15776.6	7699.3	865.9	757.7	782.5	752.4	800.3	754.1	679.6	677.8
16332.0	77.5°	10840.1	4760.9	628.2	624.6	642.4	603.3	658.3	633.5	566.0	535.9
7108.4	80°	4626.0	1898.7	457.8	482.7	482.7	447.2	511.0	518.1	459.6	445.4
1371.7	82.5°	920.9	539.4	321.2	331.8	312.3	301.7	362.0	401.0	553.6	615.7
413.4	85°	276.8	198.7	193.4	181.0	159.7	161.5	212.9	402.8	496.8	283.9
136.6	87.5°	76.3	49.7	51.5	40.8	33.7	44.4	72.8	305.2	166.8	71.0
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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<u>180°</u>
6734.0
6519.3
5949.7
5025.2
4012.0
3362.6
2940.3
2814.3
2764.6
2651.0
2521.5
2452.3
2416.8
2356.5
2171.9
1948.3
1708.8
1611.2
1545.5
1494.1
1465.7
1412.5
1322.0
1242.1
1153.4
1059.3
965.3
880.1
796.7
697.4
610.4
502.2
445.4
617.5
244.9
60.3
0.0

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