

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: P940125

Luminaire Tested: **GALN-SB3A-750-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-750-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14109 lumens
Efficiency: N/A
Efficacy: 166.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

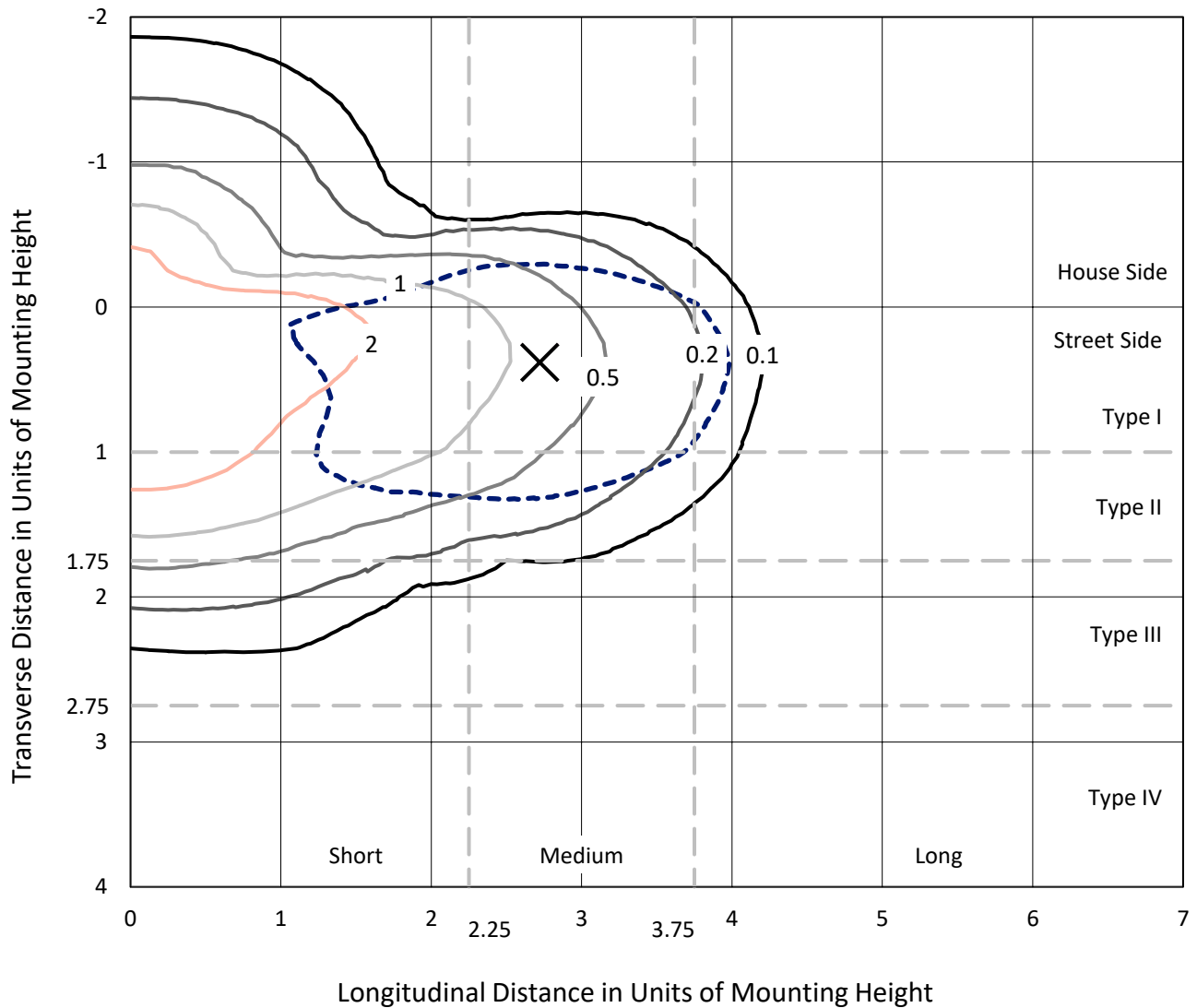
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

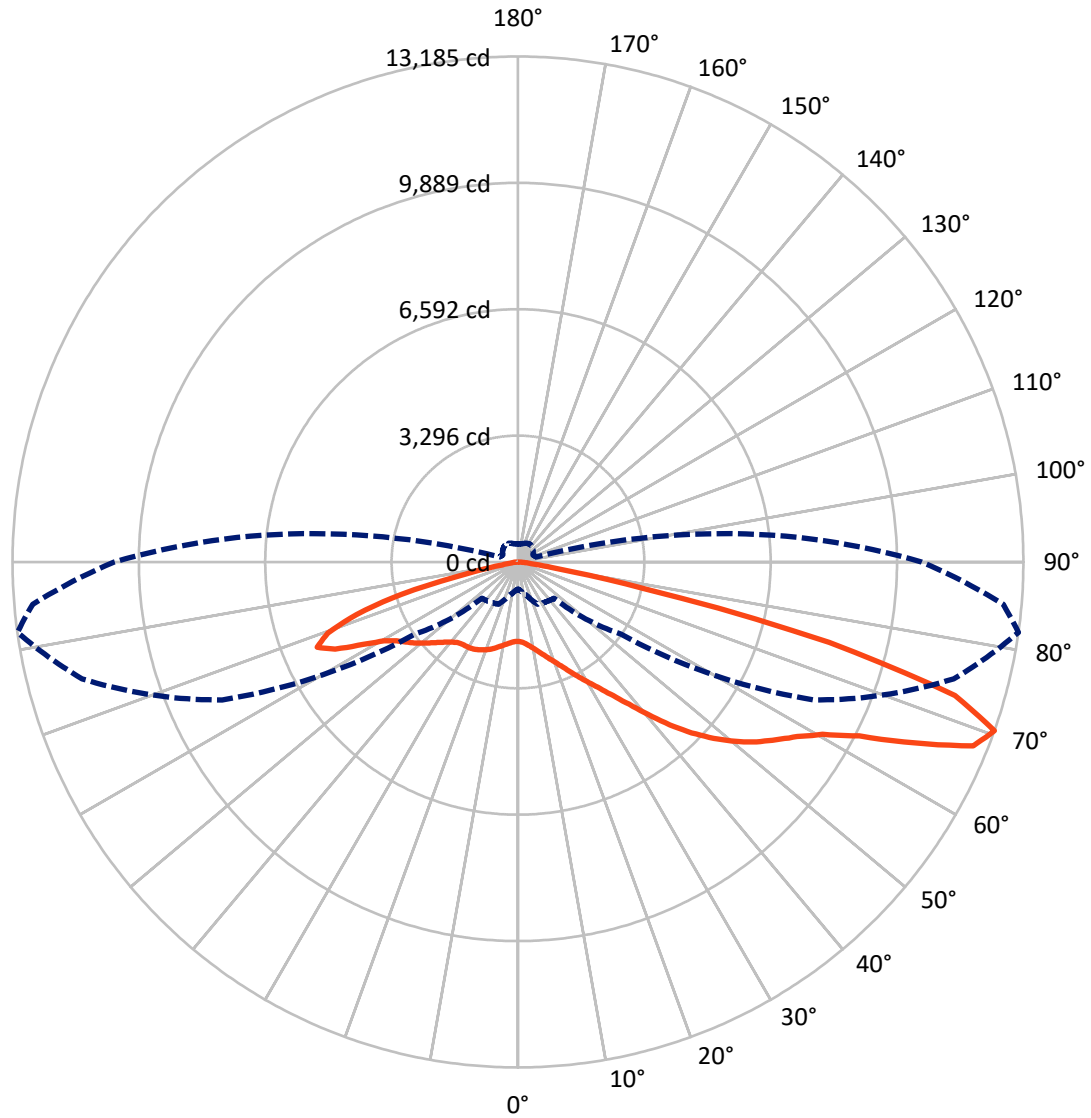
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3478.2	0.0	3478.2
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10630.8	0.0	10630.8
	% Fixture	75.3	0.0	75.3
Total	Lumens	14109.0	0.0	14109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.3	1.4
10°-20°	561.1	4.0
20°-30°	938.7	6.7
30°-40°	1466.5	10.4
40°-50°	2335.6	16.6
50°-60°	3250.3	23.0
60°-70°	3399.9	24.1
70°-80°	1777.0	12.6
80°-90°	184.5	1.3
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°	14109.0	100.0
0°-180°	14109.0	100.0

Coefficient of Utilization



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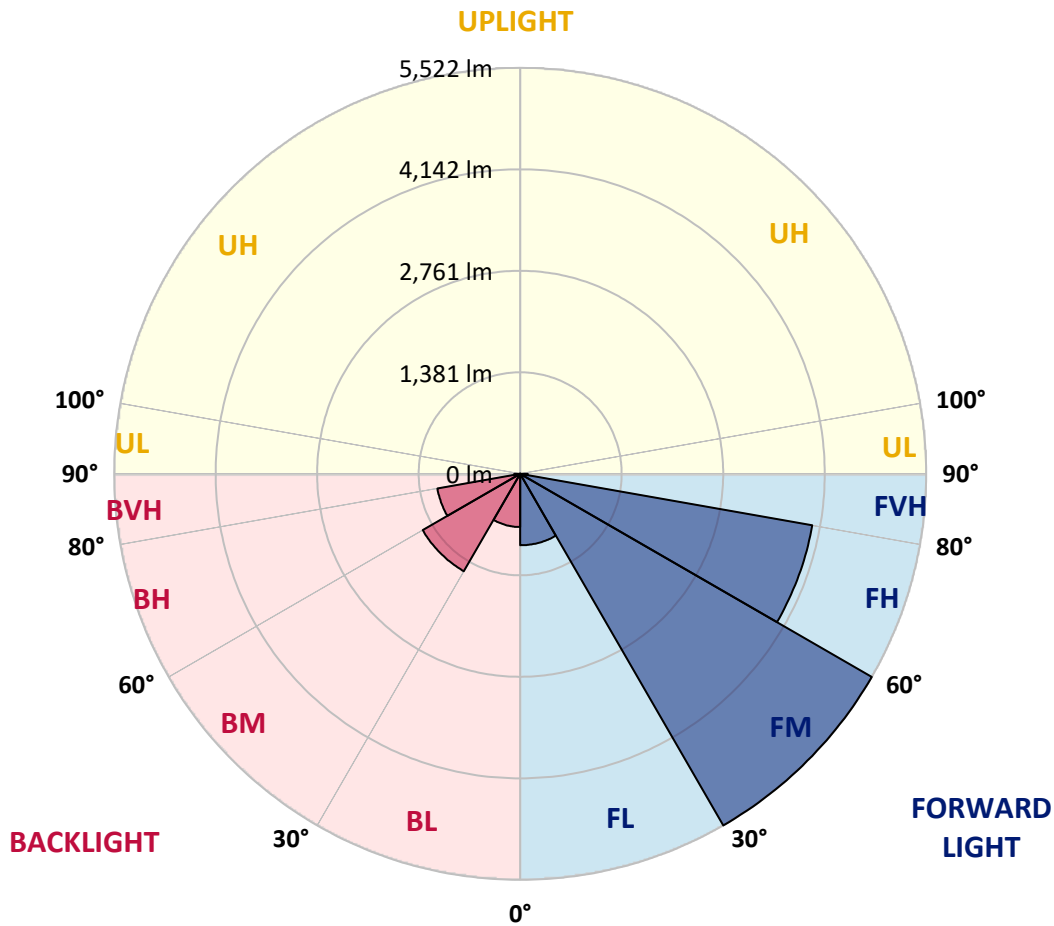
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.6	6.9			
FM (30°-60°)	5522.1	39.1			
FH (60°-80°)	4033.8	28.6			G2/5000
FVH (80°-90°)	103.3	0.7			G2/225
BL (0°-30°)	723.6	5.1	B2/1000		
BM (30°-60°)	1530.3	10.8	B2/2500		
BH (60°-80°)	1143.1	8.1	B3/2500		G3/2500
BVH (80°-90°)	81.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6
2.5°	2118.0	2129.9	2126.2	2122.5	2122.5	2117.2	2116.5	2109.0	2103.0	2093.3
5°	2144.9	2157.6	2156.1	2159.1	2168.9	2171.1	2173.4	2168.9	2156.9	2144.9
7.5°	2121.0	2135.2	2139.7	2157.6	2187.6	2214.5	2234.8	2243.0	2231.8	2214.5
10°	2040.1	2055.8	2071.6	2114.2	2167.4	2231.0	2284.9	2317.1	2314.9	2298.4
12.5°	1876.1	1892.6	1926.3	2009.4	2106.7	2219.0	2319.4	2386.7	2409.9	2398.0
15°	1745.1	1759.4	1784.8	1870.2	1996.7	2167.4	2332.1	2463.1	2522.2	2515.5
17.5°	1741.4	1747.4	1763.1	1803.5	1900.9	2086.5	2318.6	2538.0	2651.0	2650.3
20°	1807.3	1809.5	1818.5	1826.7	1882.1	2025.1	2284.2	2600.1	2795.5	2795.5
22.5°	1898.6	1897.1	1906.1	1898.6	1925.6	2019.9	2262.5	2654.8	2956.5	2968.4
25°	2035.6	2028.1	2025.9	2008.7	2013.9	2068.6	2286.4	2716.9	3147.4	3172.1
27.5°	2218.3	2206.3	2198.1	2158.4	2144.9	2168.9	2359.8	2791.8	3360.0	3402.7
30°	2456.4	2434.7	2422.7	2353.8	2305.1	2308.9	2470.6	2891.3	3582.4	3651.2
32.5°	2781.3	2747.6	2715.4	2602.4	2513.3	2484.1	2613.6	3029.1	3823.4	3933.5
35°	3145.1	3118.2	3083.7	2909.3	2772.3	2704.9	2806.7	3221.5	4105.7	4280.1
37.5°	3495.5	3472.3	3488.8	3253.7	3077.0	2978.9	3059.8	3479.8	4453.8	4711.3
40°	3857.9	3839.9	3842.1	3617.5	3411.7	3301.6	3366.7	3804.0	4852.8	5224.2
42.5°	4251.7	4238.2	4193.3	3994.1	3762.8	3660.2	3720.1	4178.3	5281.1	5808.1
45°	4692.6	4684.4	4642.5	4414.1	4149.1	4033.8	4114.7	4591.6	5711.5	6357.6
47.5°	5073.7	5080.4	5075.2	4882.8	4608.0	4438.8	4535.4	5022.8	6112.1	6874.2
50°	5257.1	5292.3	5344.0	5284.1	5113.4	4941.2	4959.9	5439.0	6493.9	7358.6
52.5°	5161.3	5227.9	5368.7	5464.5	5530.4	5494.4	5444.3	5852.3	6853.3	7795.8
55°	4804.2	4897.8	5131.3	5362.7	5698.8	5960.1	6026.0	6310.5	7203.6	8180.6
57.5°	4153.6	4305.6	4515.2	4983.1	5549.1	6185.5	6704.3	6946.1	7575.0	8591.7
60°	3038.1	3241.7	3502.2	4198.5	5025.0	6064.9	7281.5	7922.4	8102.8	9124.0
62.5°	1944.3	2070.1	2309.6	2965.5	3915.5	5447.3	7458.2	9142.7	8997.4	9996.9
65°	1331.1	1412.0	1631.3	1999.7	2531.2	4054.8	6985.0	10057.5	10418.4	11380.4
67.5°	967.3	1028.7	1215.8	1538.5	1649.3	2399.5	5420.3	10015.6	11799.7	12805.9
70°	705.2	748.7	905.9	1215.8	1269.0	1334.9	3283.6	8513.8	11769.7	13184.7
72.5°	522.6	552.5	658.1	943.3	1027.2	901.4	1625.3	6187.7	10113.7	11925.5
75°	378.1	400.5	478.4	721.7	822.0	686.5	810.8	3616.0	7054.7	8388.8
77.5°	289.0	306.2	357.1	528.6	658.1	515.1	503.1	1663.5	3345.0	3361.5
80°	232.1	243.3	271.0	372.1	504.6	385.6	327.9	671.6	1057.1	894.7
82.5°	170.7	189.4	229.1	261.3	360.9	265.8	199.9	339.1	402.0	345.9
85°	97.3	110.1	138.5	187.2	230.6	162.5	114.5	150.5	187.2	153.5
87.5°	34.4	44.9	48.7	73.4	100.3	67.4	44.2	43.4	61.4	45.7
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°
2068.6	0°	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6	2068.6
2091.0	2.5°	2083.5	2079.8	2064.8	2044.6	2023.6	2003.4	1996.7	1982.5	1972.7	1967.5
2139.7	5°	2125.5	2113.5	2078.3	2033.4	1986.2	1935.3	1899.4	1866.4	1842.5	1820.0
2206.3	7.5°	2185.3	2164.4	2103.7	2025.1	1941.3	1856.7	1793.8	1745.9	1713.7	1692.7
2284.2	10°	2255.0	2222.8	2129.9	2012.4	1882.9	1761.6	1687.5	1646.3	1626.1	1614.9
2373.3	12.5°	2335.1	2289.4	2156.9	1983.2	1793.8	1655.3	1604.4	1592.4	1593.2	1593.9
2485.6	15°	2433.9	2370.3	2178.6	1919.6	1677.8	1573.7	1564.7	1584.2	1604.4	1614.1
2612.8	17.5°	2545.5	2455.6	2182.4	1814.8	1564.0	1521.3	1549.7	1591.7	1622.4	1635.8
2755.1	20°	2665.2	2542.5	2155.4	1666.5	1470.4	1478.6	1529.5	1583.4	1617.1	1634.3
2917.5	22.5°	2802.2	2635.3	2091.0	1510.8	1394.0	1432.2	1492.1	1544.5	1579.7	1596.9
3108.4	25°	2958.7	2739.4	1989.9	1379.8	1328.1	1379.8	1439.7	1483.1	1511.6	1527.3
3321.8	27.5°	3132.4	2847.9	1855.2	1275.7	1270.5	1325.9	1375.3	1409.0	1424.0	1435.9
3548.7	30°	3306.8	2946.7	1692.0	1197.1	1220.3	1272.7	1307.9	1322.9	1327.4	1329.6
3801.7	32.5°	3495.5	3032.1	1520.5	1132.0	1172.4	1221.1	1242.0	1248.8	1227.8	1213.6
4108.7	35°	3723.8	3123.4	1352.8	1080.3	1125.2	1167.2	1173.9	1167.9	1143.2	1114.0
4493.5	37.5°	4006.1	3237.2	1218.8	1043.6	1081.1	1108.8	1100.5	1099.0	1101.3	1066.8
4956.1	40°	4352.0	3385.5	1120.7	1015.2	1045.1	1051.1	1027.9	1040.6	1051.9	999.5
5463.7	42.5°	4736.0	3564.4	1058.6	995.7	1015.2	1001.0	965.0	979.3	977.8	908.9
5973.6	45°	5127.6	3759.0	1036.9	981.5	987.5	959.0	919.4	923.1	891.7	829.5
6462.5	47.5°	5516.9	3967.9	1050.4	969.5	953.0	920.9	890.2	873.7	827.3	780.9
6931.1	50°	5898.7	4187.3	1099.8	945.6	905.9	887.2	864.7	835.5	786.1	746.4
7374.3	52.5°	6252.8	4408.1	1155.2	905.9	846.7	858.0	843.7	810.1	761.4	721.0
7793.6	55°	6588.2	4629.0	1176.9	851.2	791.3	832.5	824.3	762.1	703.7	670.8
8232.3	57.5°	6953.6	4894.8	1152.9	781.6	746.4	803.3	771.9	703.0	669.3	644.6
8803.5	60°	7459.7	5311.8	1101.3	695.5	703.7	759.9	706.0	677.5	640.9	613.2
9660.0	62.5°	8300.4	6089.6	1018.2	610.2	653.6	695.5	674.5	646.1	608.7	581.7
11124.4	65°	9543.2	7170.7	861.7	543.5	597.4	632.6	640.9	612.4	573.5	545.0
12407.6	67.5°	10591.3	7849.0	652.1	488.1	539.8	581.7	604.9	577.2	536.0	508.3
12707.8	70°	10533.7	7356.4	497.9	433.5	488.9	531.6	561.5	539.8	495.6	469.4
11542.9	72.5°	9356.0	6154.0	402.8	378.1	437.2	479.1	515.1	498.6	453.7	428.2
8456.1	75°	6873.5	4368.4	321.9	321.9	372.8	424.5	464.2	453.7	412.5	394.5
3550.2	77.5°	2897.3	1832.7	252.3	267.3	309.9	364.6	414.0	417.8	381.8	404.3
938.8	80°	770.4	505.3	192.4	210.4	243.3	301.0	360.1	358.6	319.7	298.7
348.9	82.5°	293.5	199.1	137.0	148.2	175.9	230.6	285.2	294.2	255.3	220.9
137.0	85°	113.0	85.3	84.6	89.1	102.6	152.7	215.6	223.1	192.4	163.2
38.2	87.5°	29.2	25.5	31.4	29.9	47.2	81.6	123.5	128.0	117.5	68.1
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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<u>180°</u>
2068.6
1973.5
1829.0
1697.2
1617.9
1595.4
1613.4
1638.8
1638.8
1601.4
1531.8
1440.4
1334.9
1218.1
1115.5
1069.1
1001.0
908.1
831.8
780.9
743.4
721.7
667.8
642.4
611.7
581.7
546.5
509.1
471.7
428.2
389.3
366.8
277.8
220.9
168.4
97.3
0.0

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