

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: P939775

Luminaire Tested: **GALN-SB2C-740-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939775  
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-SB2C-740-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15700 lumens  
Efficiency: N/A  
Efficacy: 155.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

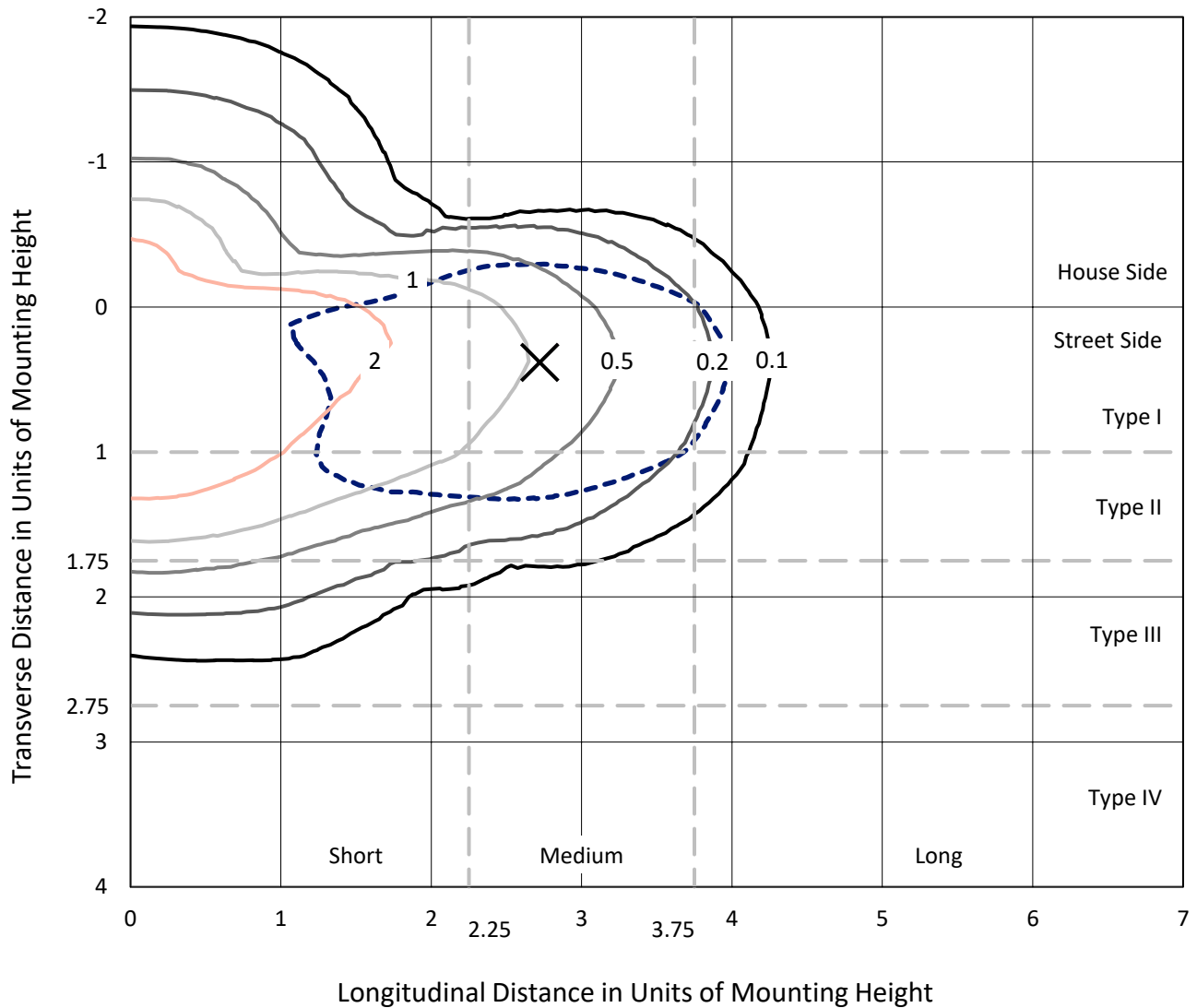
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

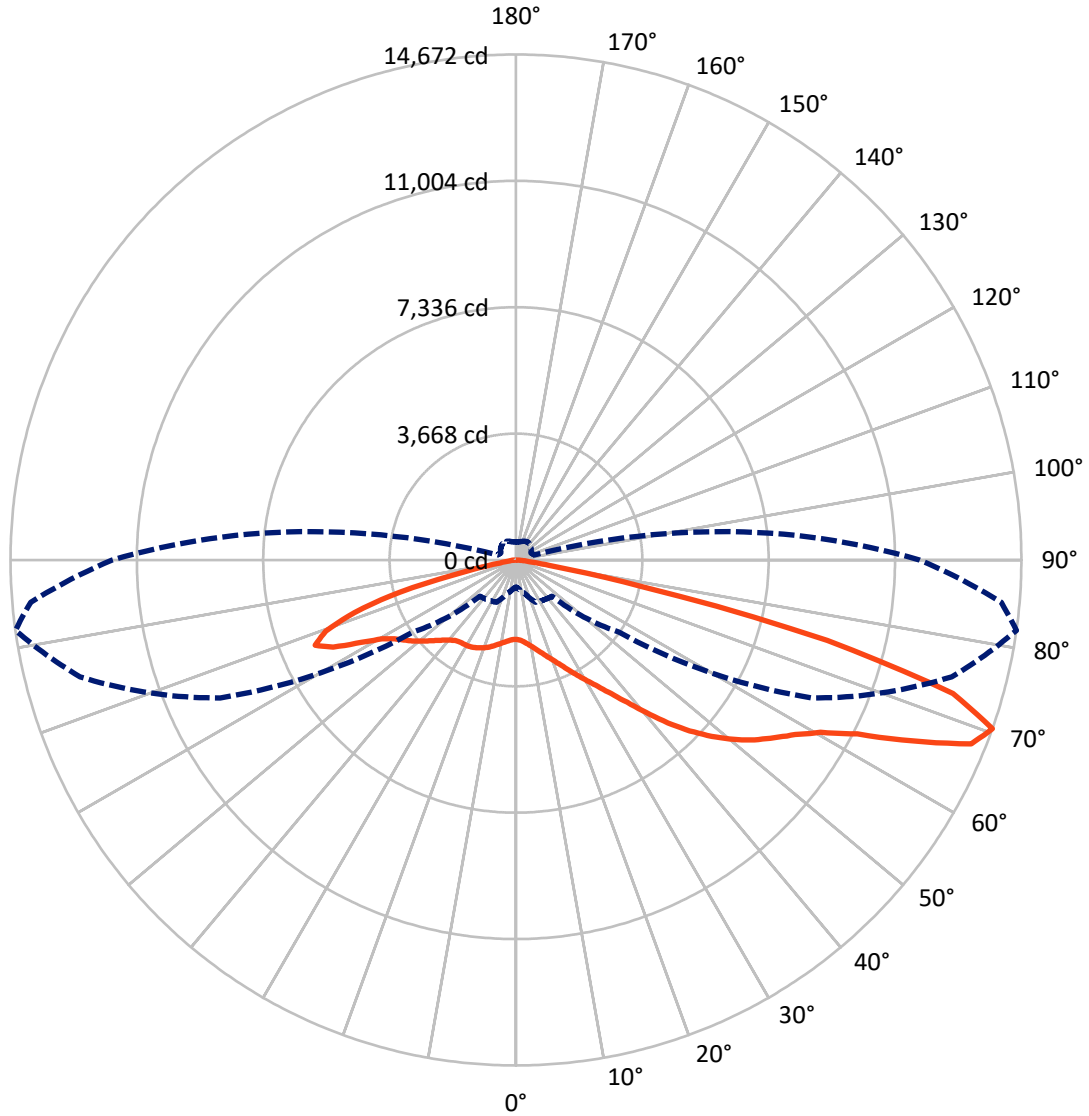
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
<b>House Side</b>	Lumens	3870.4	0.0	3870.4
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	11829.6	0.0	11829.6
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	15700.0	0.0	15700.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.3	1.4
10°-20°	624.4	4.0
20°-30°	1044.6	6.7
30°-40°	1631.9	10.4
40°-50°	2599.0	16.6
50°-60°	3616.8	23.0
60°-70°	3783.3	24.1
70°-80°	1977.4	12.6
80°-90°	205.3	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°	15700.0	100.0
0°-180°	15700.0	100.0

**Coefficient of Utilization**



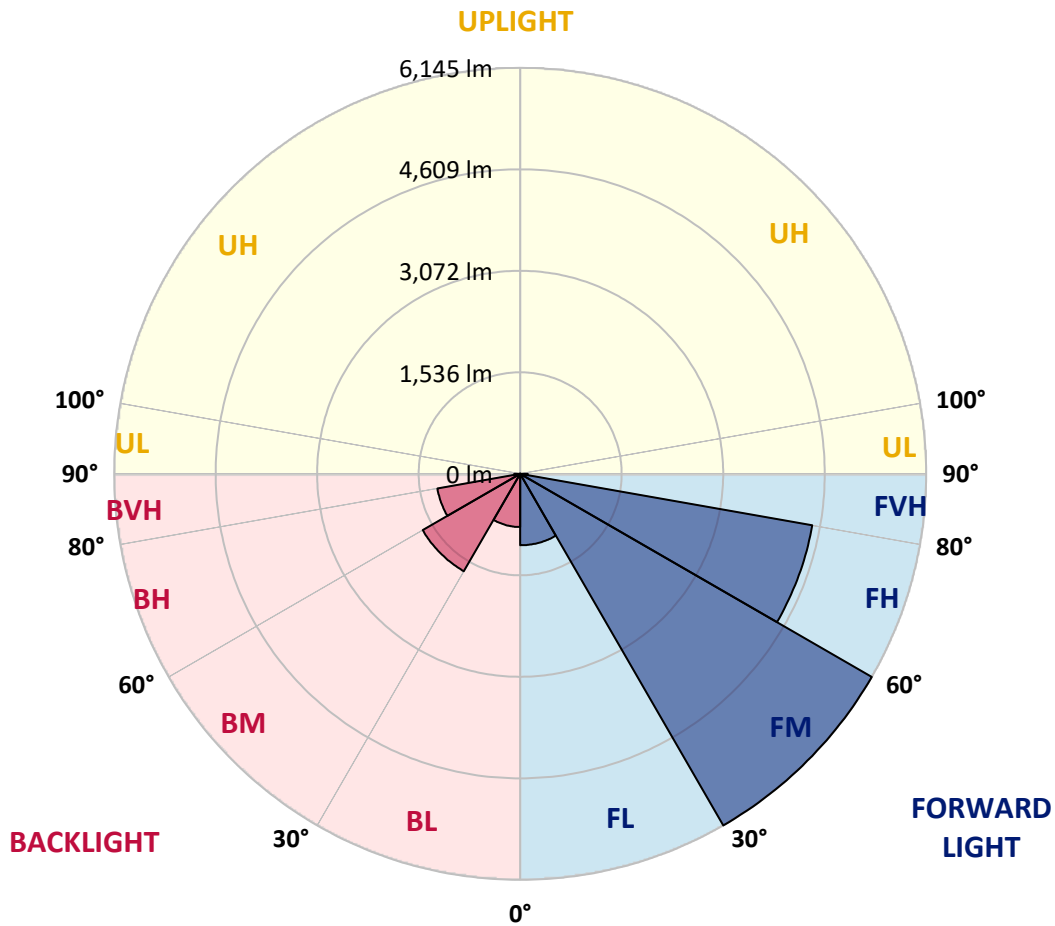
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1081.1	6.9			
FM (30°-60°)	6144.8	39.1			
FH (60°-80°)	4488.7	28.6			G2/5000
FVH (80°-90°)	114.9	0.7			G2/225
BL (0°-30°)	805.2	5.1	B2/1000		
BM (30°-60°)	1702.8	10.8	B2/2500		
BH (60°-80°)	1272.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2.5°	2356.8	2370.1	2366.0	2361.8	2361.8	2356.0	2355.1	2346.8	2340.1	2329.3
5°	2386.8	2401.0	2399.3	2402.6	2413.4	2415.9	2418.4	2413.4	2400.1	2386.8
7.5°	2360.1	2376.0	2381.0	2401.0	2434.3	2464.3	2486.8	2495.9	2483.4	2464.3
10°	2270.2	2287.7	2305.1	2352.6	2411.8	2482.6	2542.6	2578.4	2575.9	2557.6
12.5°	2087.7	2106.0	2143.5	2236.0	2344.3	2469.3	2580.9	2655.9	2681.7	2668.4
15°	1941.9	1957.8	1986.1	2081.0	2221.8	2411.8	2595.1	2740.9	2806.7	2799.2
17.5°	1937.8	1944.4	1961.9	2006.9	2115.2	2321.8	2580.1	2824.2	2950.0	2949.1
20°	2011.1	2013.6	2023.6	2032.7	2094.4	2253.5	2541.7	2893.3	3110.7	3110.7
22.5°	2112.7	2111.0	2121.0	2112.7	2142.7	2247.7	2517.6	2954.1	3289.9	3303.2
25°	2265.2	2256.8	2254.3	2235.2	2241.0	2301.8	2544.2	3023.3	3502.3	3529.8
27.5°	2468.4	2455.1	2445.9	2401.8	2386.8	2413.4	2625.9	3106.6	3738.9	3786.4
30°	2733.4	2709.2	2695.9	2619.2	2565.1	2569.2	2749.2	3217.4	3986.3	4063.0
32.5°	3094.9	3057.4	3021.6	2895.8	2796.7	2764.2	2908.3	3370.7	4254.6	4377.0
35°	3499.8	3469.8	3431.5	3237.4	3084.9	3009.9	3123.2	3584.8	4568.6	4762.8
37.5°	3889.7	3863.9	3882.2	3620.6	3424.0	3314.8	3404.8	3872.2	4956.0	5242.6
40°	4292.9	4272.9	4275.4	4025.5	3796.4	3673.9	3746.4	4232.9	5400.1	5813.3
42.5°	4731.1	4716.1	4666.1	4444.5	4187.1	4073.0	4139.6	4649.5	5876.6	6463.1
45°	5221.8	5212.6	5166.0	4911.9	4617.0	4488.7	4578.6	5109.3	6355.6	7074.6
47.5°	5645.8	5653.3	5647.5	5433.4	5127.6	4939.4	5046.8	5589.2	6801.3	7649.4
50°	5849.9	5889.1	5946.6	5879.9	5690.0	5498.4	5519.2	6052.4	7226.2	8188.4
52.5°	5743.3	5817.4	5974.1	6080.7	6154.0	6114.0	6058.2	6512.2	7626.1	8674.9
55°	5345.9	5450.0	5710.0	5967.4	6341.4	6632.2	6705.5	7022.1	8016.0	9103.1
57.5°	4622.0	4791.1	5024.3	5545.0	6174.8	6883.0	7460.3	7729.4	8429.2	9560.5
60°	3380.7	3607.3	3897.2	4671.9	5591.7	6748.8	8102.6	8815.7	9016.5	10152.8
62.5°	2163.5	2303.5	2570.1	3299.9	4357.0	6061.5	8299.2	10173.6	10012.0	11124.2
65°	1481.2	1571.2	1815.3	2225.2	2816.7	4512.0	7772.7	11191.7	11593.2	12663.7
67.5°	1076.3	1144.7	1352.9	1712.0	1835.3	2670.0	6031.5	11145.0	13130.3	14249.9
70°	784.8	833.1	1008.0	1352.9	1412.1	1485.4	3653.9	9473.9	13096.9	14671.5
72.5°	581.5	614.8	732.3	1049.7	1143.0	1003.0	1808.6	6885.5	11254.2	13270.2
75°	420.7	445.7	532.3	803.1	914.7	763.9	902.2	4023.8	7850.2	9334.7
77.5°	321.6	340.7	397.4	588.2	732.3	573.2	559.8	1851.1	3722.2	3740.6
80°	258.3	270.8	301.6	414.0	561.5	429.0	364.9	747.3	1176.3	995.5
82.5°	189.9	210.8	254.9	290.7	401.5	295.7	222.4	377.4	447.4	384.9
85°	108.3	122.5	154.1	208.3	256.6	180.8	127.5	167.5	208.3	170.8
87.5°	38.3	50.0	54.2	81.6	111.6	75.0	49.2	48.3	68.3	50.8
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°
2301.8	0°	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8	2301.8
2326.8	2.5°	2318.5	2314.3	2297.7	2275.2	2251.8	2229.3	2221.8	2206.0	2195.2	2189.3
2381.0	5°	2365.1	2351.8	2312.6	2262.7	2210.2	2153.5	2113.5	2076.9	2050.2	2025.2
2455.1	7.5°	2431.8	2408.5	2341.0	2253.5	2160.2	2066.1	1996.1	1942.8	1906.9	1883.6
2541.7	10°	2509.3	2473.4	2370.1	2239.3	2095.2	1960.3	1877.8	1832.0	1809.5	1797.0
2640.9	12.5°	2598.4	2547.6	2400.1	2206.8	1996.1	1842.0	1785.3	1772.0	1772.8	1773.6
2765.8	15°	2708.4	2637.5	2424.3	2136.0	1866.9	1751.1	1741.1	1762.8	1785.3	1796.1
2907.5	17.5°	2832.5	2732.5	2428.4	2019.4	1740.3	1692.8	1724.5	1771.1	1805.3	1820.3
3065.8	20°	2965.8	2829.2	2398.5	1854.4	1636.2	1645.3	1702.0	1762.0	1799.5	1818.6
3246.5	22.5°	3118.2	2932.5	2326.8	1681.2	1551.2	1593.7	1660.3	1718.7	1757.8	1777.0
3459.0	25°	3292.4	3048.3	2214.3	1535.4	1477.9	1535.4	1602.0	1650.3	1682.0	1699.5
3696.4	27.5°	3485.6	3169.1	2064.4	1419.6	1413.7	1475.4	1530.4	1567.9	1584.5	1597.9
3948.8	30°	3679.7	3279.0	1882.8	1332.1	1357.9	1416.2	1455.4	1472.1	1477.1	1479.6
4230.4	32.5°	3889.7	3374.0	1692.0	1259.6	1304.6	1358.8	1382.1	1389.6	1366.3	1350.4
4572.0	35°	4143.8	3475.6	1505.4	1202.1	1252.1	1298.8	1306.3	1299.6	1272.1	1239.6
5000.2	37.5°	4457.8	3602.3	1356.3	1161.3	1203.0	1233.8	1224.6	1223.0	1225.5	1187.1
5515.0	40°	4842.7	3767.2	1247.1	1129.7	1163.0	1169.7	1143.8	1158.0	1170.5	1112.2
6079.9	42.5°	5270.1	3966.3	1178.0	1108.0	1129.7	1113.8	1073.8	1089.7	1088.0	1011.4
6647.2	45°	5705.8	4182.9	1153.8	1092.2	1098.8	1067.2	1023.0	1027.2	992.2	923.1
7191.2	47.5°	6139.0	4415.4	1168.8	1078.8	1060.5	1024.7	990.5	972.2	920.6	868.9
7712.7	50°	6563.9	4659.4	1223.8	1052.2	1008.0	987.2	962.2	929.7	874.7	830.6
8205.9	52.5°	6957.9	4905.2	1285.5	1008.0	942.2	954.7	938.9	901.4	847.2	802.3
8672.4	55°	7331.2	5151.0	1309.6	947.2	880.6	926.4	917.2	848.1	783.1	746.4
9160.6	57.5°	7737.7	5446.7	1283.0	869.7	830.6	893.9	858.9	782.3	744.8	717.3
9796.3	60°	8300.9	5910.7	1225.5	773.9	783.1	845.6	785.6	753.9	713.1	682.3
10749.3	62.5°	9236.4	6776.3	1133.0	679.0	727.3	773.9	750.6	719.0	677.3	647.3
12378.8	65°	10619.3	7979.3	958.9	604.8	664.8	704.0	713.1	681.5	638.1	606.5
13806.7	67.5°	11785.7	8734.1	725.6	543.2	600.7	647.3	673.1	642.3	596.5	565.7
14140.8	70°	11721.5	8185.9	554.0	482.4	544.0	591.5	624.8	600.7	551.5	522.3
12844.5	72.5°	10411.1	6848.0	448.2	420.7	486.5	533.2	573.2	554.8	504.9	476.5
9409.7	75°	7648.6	4861.1	358.2	358.2	414.9	472.4	516.5	504.9	459.0	439.0
3950.5	77.5°	3224.0	2039.4	280.7	297.4	344.9	405.7	460.7	464.9	424.9	449.9
1044.7	80°	857.2	562.3	214.1	234.1	270.8	334.9	400.7	399.0	355.7	332.4
388.2	82.5°	326.6	221.6	152.5	165.0	195.8	256.6	317.4	327.4	284.1	245.8
152.5	85°	125.8	95.0	94.1	99.1	114.1	169.9	239.9	248.3	214.1	181.6
42.5	87.5°	32.5	28.3	35.0	33.3	52.5	90.8	137.5	142.5	130.8	75.8
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>
2301.8
2196.0
2035.2
1888.6
1800.3
1775.3
1795.3
1823.6
1823.6
1782.0
1704.5
1602.9
1485.4
1355.4
1241.3
1189.6
1113.8
1010.5
925.6
868.9
827.3
803.1
743.1
714.8
680.6
647.3
608.2
566.5
524.8
476.5
433.2
408.2
309.1
245.8
187.4
108.3
0.0

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