

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: P939774

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11571 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

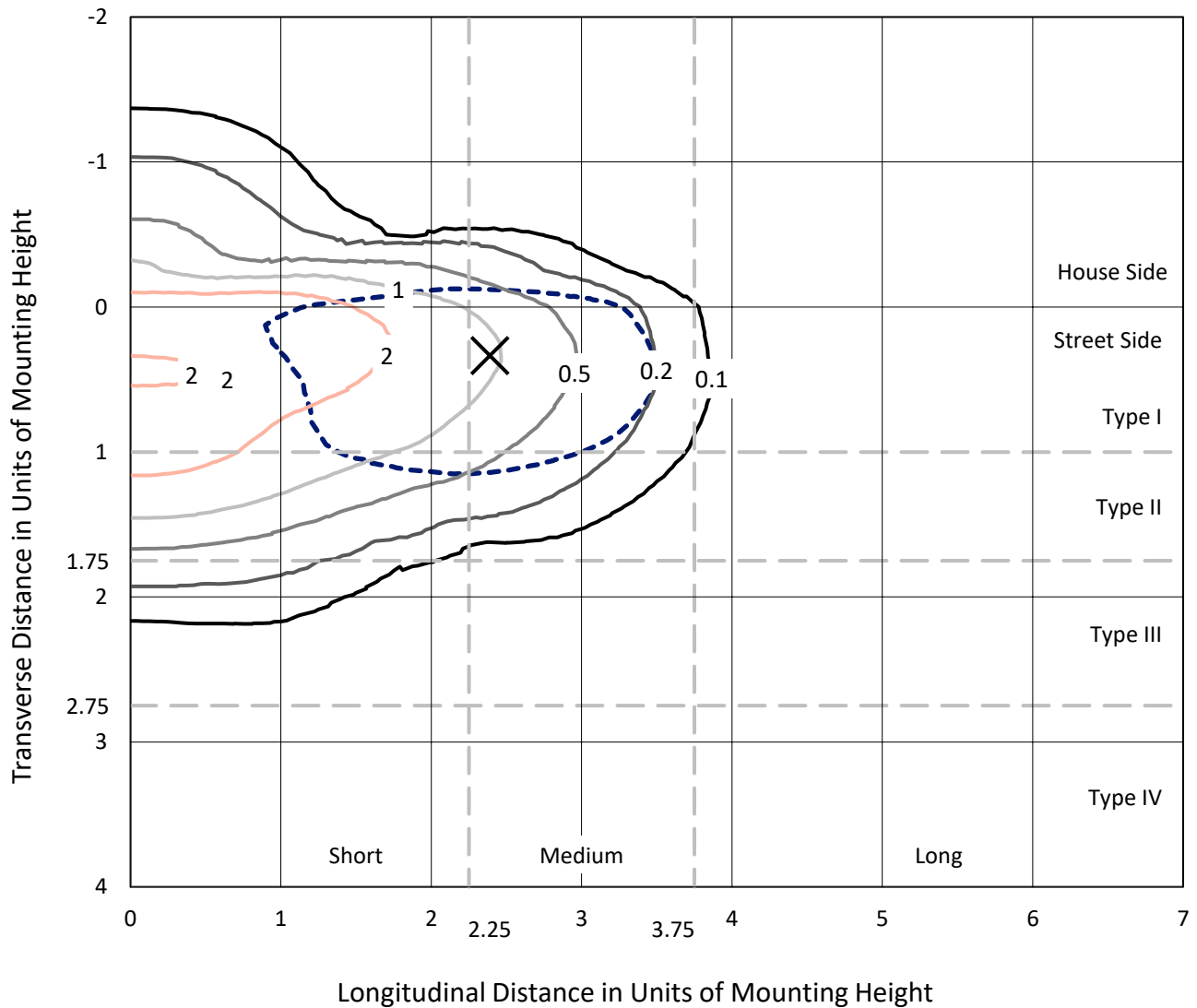
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

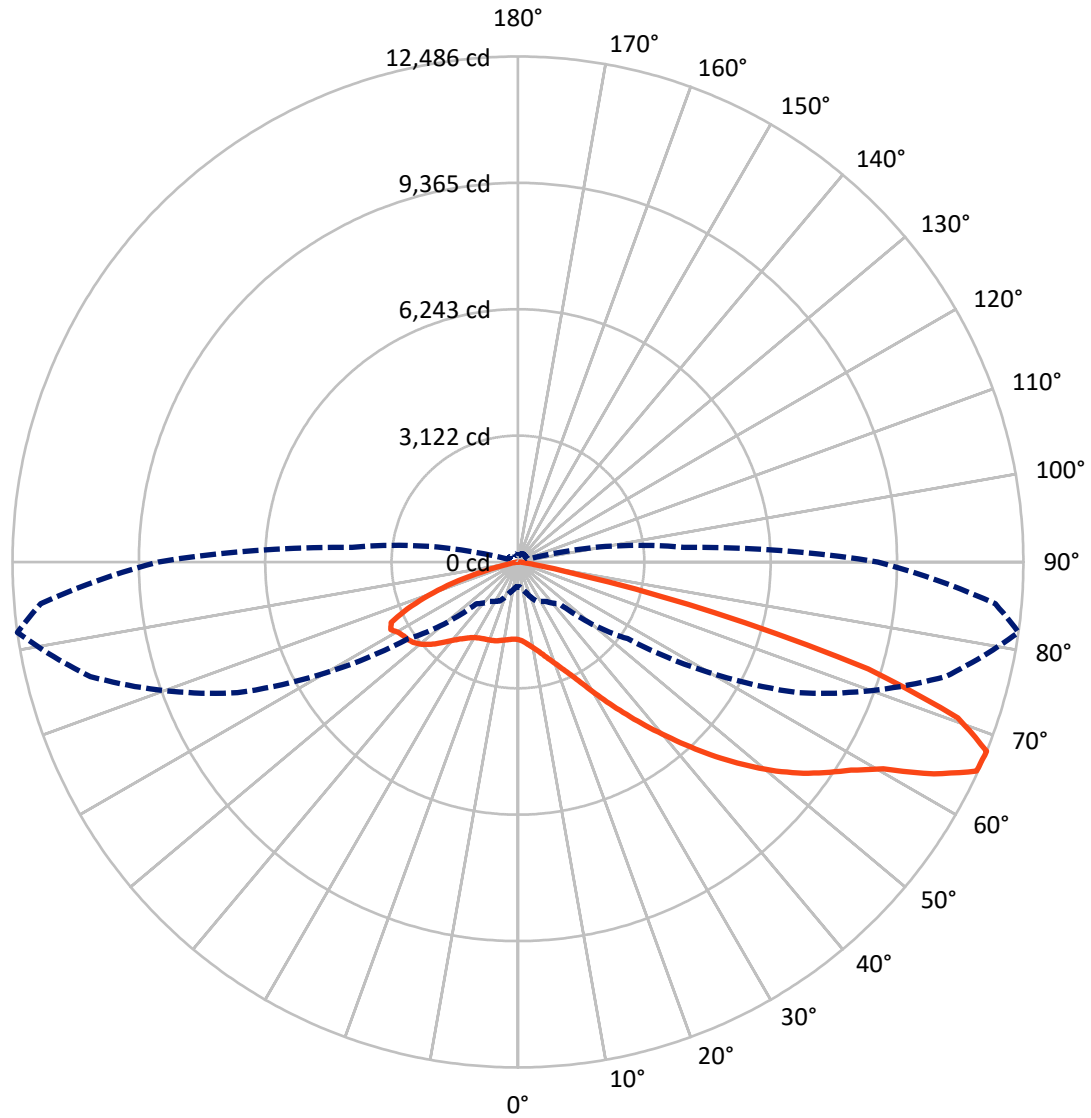
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2096.0	0.0	2096.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9475.0	0.0	9475.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	11571.0	0.0	11571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	1.5
10°-20°	443.8	3.8
20°-30°	710.8	6.1
30°-40°	1257.0	10.9
40°-50°	2202.3	19.0
50°-60°	2937.3	25.4
60°-70°	2734.4	23.6
70°-80°	1049.5	9.1
80°-90°	65.2	0.6
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°	11571.0	100.0
0°-180°	11571.0	100.0

Coefficient of Utilization



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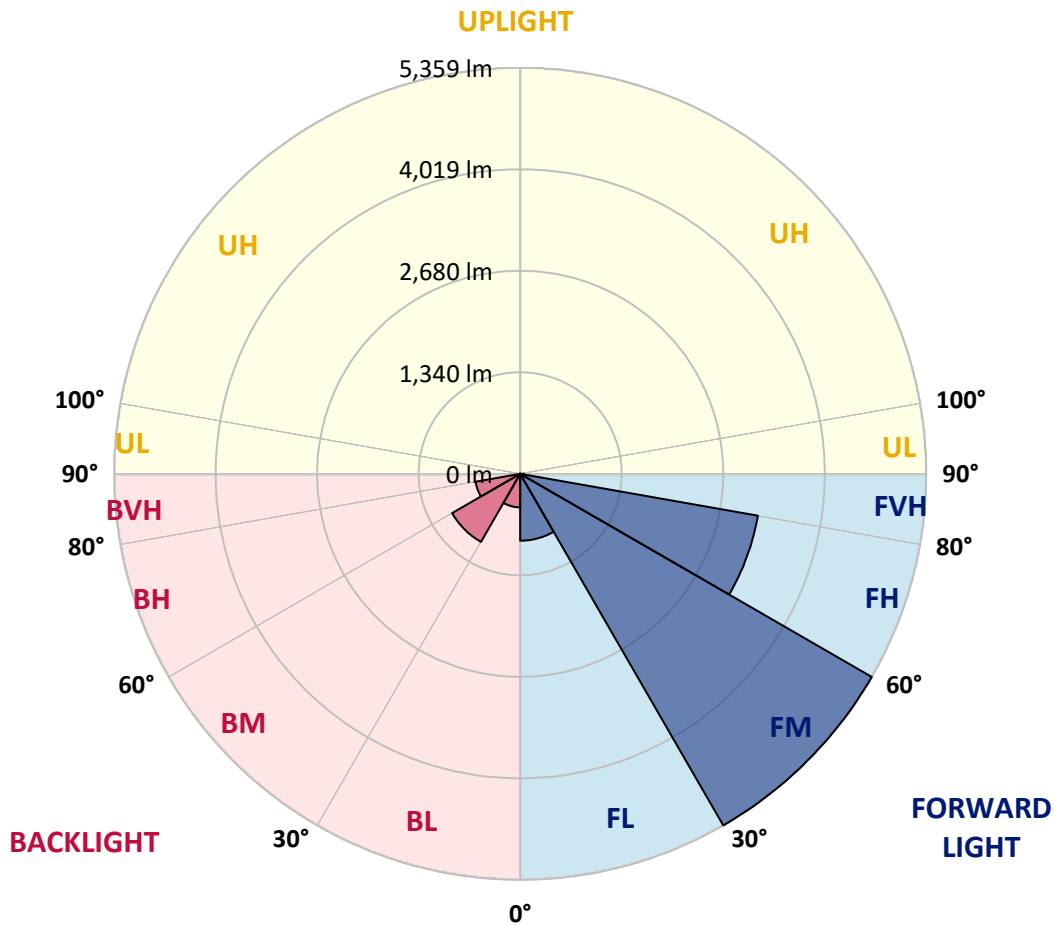
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.7	7.6			
FM (30°-60°)	5359.2	46.3			
FH (60°-80°)	3185.7	27.5			G2/5000
FVH (80°-90°)	47.4	0.4			G1/100
BL (0°-30°)	442.7	3.8	B1/500		
BM (30°-60°)	1037.3	9.0	B2/2500		
BH (60°-80°)	598.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	17.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9
2.5°	2026.1	2037.7	2031.1	2027.7	2021.9	2013.6	2006.9	1986.1	1964.4	1950.2
5°	2066.9	2078.5	2077.7	2081.0	2085.2	2087.7	2086.0	2062.7	2031.9	2007.7
7.5°	2031.9	2045.2	2056.0	2072.7	2101.9	2132.7	2147.7	2142.7	2111.0	2077.7
10°	1932.8	1946.9	1972.7	2011.9	2073.5	2140.2	2196.0	2221.8	2201.8	2165.2
12.5°	1751.1	1765.3	1816.1	1901.1	2004.4	2120.2	2226.8	2296.0	2301.0	2264.3
15°	1547.0	1561.2	1615.3	1722.0	1879.4	2065.2	2243.5	2374.3	2418.4	2386.8
17.5°	1420.4	1432.9	1473.7	1559.5	1723.6	1955.2	2237.7	2457.6	2558.4	2533.4
20°	1382.1	1392.9	1412.1	1472.1	1608.7	1841.1	2199.3	2535.9	2709.2	2695.0
22.5°	1422.9	1432.9	1438.7	1465.4	1551.2	1766.1	2151.0	2615.9	2884.1	2885.8
25°	1517.0	1527.0	1520.4	1537.0	1574.5	1742.8	2132.7	2710.0	3104.1	3122.4
27.5°	1672.0	1672.8	1657.0	1656.2	1662.0	1777.8	2151.9	2810.8	3381.5	3415.6
30°	1982.7	1970.2	1909.4	1843.6	1813.6	1882.8	2205.2	2930.0	3708.9	3769.7
32.5°	2461.8	2443.4	2331.8	2174.3	2016.1	2051.9	2301.0	3065.7	4065.4	4175.4
35°	2981.6	2976.6	2860.0	2625.9	2349.3	2292.6	2456.8	3244.0	4454.5	4629.4
37.5°	3464.8	3462.3	3395.6	3119.9	2783.3	2628.4	2706.7	3477.3	4871.0	5124.3
40°	3906.3	3913.8	3847.2	3600.6	3261.5	3059.1	3046.6	3765.5	5334.2	5663.3
42.5°	4287.9	4296.2	4228.7	4046.3	3733.9	3535.6	3464.0	4118.8	5786.6	6242.3
45°	4547.0	4598.6	4588.6	4442.8	4218.7	4013.0	3965.5	4562.0	6302.3	6856.3
47.5°	4620.3	4667.8	4742.7	4762.7	4626.1	4423.7	4480.3	5096.0	6823.8	7471.1
50°	4439.5	4483.7	4639.4	4846.9	4941.8	4879.4	4981.0	5668.3	7357.8	8084.2
52.5°	4082.9	4127.9	4324.5	4652.8	5040.1	5236.8	5483.3	6232.3	7875.1	8664.9
55°	3567.3	3614.7	3867.2	4238.7	4852.7	5384.2	5902.4	6795.5	8349.2	9187.2
57.5°	2865.8	2900.8	3163.2	3683.1	4381.2	5237.6	6211.5	7410.3	8795.7	9700.4
60°	1867.8	1898.6	2203.5	2783.3	3599.8	4747.7	6273.1	8095.9	9388.8	10367.7
62.5°	1242.1	1263.0	1443.7	1869.4	2535.1	3807.2	5912.4	8643.2	10258.6	11529.0
65°	852.2	873.1	1053.8	1350.4	1637.8	2518.4	4875.2	8570.8	11046.7	12451.3
67.5°	608.2	625.6	778.9	1058.8	1185.5	1462.9	3304.8	7644.4	10933.4	12486.2
70°	435.7	445.7	572.3	824.8	942.2	878.9	1837.8	5846.6	9573.0	11529.9
72.5°	304.9	308.2	397.4	628.1	758.9	641.5	874.7	3898.0	7240.3	9049.8
75°	206.6	210.8	267.4	460.7	609.0	489.9	463.2	2090.2	4250.4	5009.3
77.5°	126.6	128.3	172.4	314.9	455.7	373.2	298.2	885.6	1644.5	1614.5
80°	71.6	71.6	110.0	195.8	310.7	240.8	209.1	376.6	520.7	457.4
82.5°	40.0	40.8	80.0	121.6	205.8	142.5	115.0	174.1	224.9	199.1
85°	16.7	18.3	49.2	57.5	98.3	70.8	46.7	73.3	83.3	74.1
87.5°	1.7	2.5	15.0	10.8	11.7	14.2	6.7	14.2	11.7	11.7
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°
1916.9	0°	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9	1916.9
1945.2	2.5°	1929.4	1916.9	1885.3	1848.6	1800.3	1777.0	1745.3	1723.6	1705.3	1707.0
1993.6	5°	1966.9	1935.3	1864.4	1776.1	1666.2	1587.9	1504.5	1447.1	1400.4	1390.4
2060.2	7.5°	2018.6	1968.6	1844.4	1685.3	1499.5	1358.8	1233.0	1152.2	1094.7	1076.3
2141.0	10°	2085.2	2012.7	1818.6	1571.2	1303.8	1124.7	989.7	926.4	887.2	873.9
2236.0	12.5°	2162.7	2063.5	1784.5	1432.1	1102.2	929.7	843.9	812.3	799.8	795.6
2352.6	15°	2260.2	2126.9	1732.8	1267.1	931.4	810.6	773.9	769.8	771.4	769.8
2492.6	17.5°	2376.0	2196.0	1648.7	1097.2	816.4	749.8	736.4	739.8	743.9	743.1
2649.2	20°	2502.6	2264.3	1541.2	946.4	738.1	706.5	699.0	702.3	705.6	704.0
2830.0	22.5°	2646.7	2337.6	1422.1	828.9	685.6	666.5	658.1	659.0	659.0	655.6
3059.1	25°	2819.2	2418.4	1297.1	745.6	645.6	630.6	620.6	617.3	612.3	602.3
3337.3	27.5°	3024.9	2504.2	1177.1	687.3	614.0	599.8	588.2	579.8	567.3	550.7
3671.4	30°	3256.5	2608.4	1075.5	650.6	589.0	574.8	561.5	549.0	530.7	509.8
4055.4	32.5°	3528.9	2720.0	1001.4	626.5	566.5	551.5	535.7	520.7	500.7	479.9
4487.0	35°	3853.8	2855.0	958.0	609.8	549.0	529.0	511.5	494.9	479.9	461.5
4956.0	37.5°	4206.2	2998.3	944.7	601.5	537.3	506.5	486.5	474.9	473.2	462.4
5463.4	40°	4592.0	3168.2	954.7	596.5	524.8	484.9	463.2	460.7	464.9	445.7
6005.7	42.5°	5000.2	3369.8	971.4	590.7	507.3	463.2	442.4	442.4	439.0	412.4
6578.9	45°	5441.7	3602.2	988.0	576.5	486.5	441.5	425.7	419.9	405.7	379.9
7155.3	47.5°	5886.6	3838.8	1000.5	550.7	461.5	423.2	409.0	395.7	374.9	351.6
7721.0	50°	6308.9	4051.3	987.2	512.3	433.2	405.7	390.7	372.4	349.9	334.1
8256.7	52.5°	6686.3	4235.4	930.6	467.4	403.2	387.4	374.1	354.9	336.6	319.9
8739.9	55°	7014.6	4384.5	830.6	424.9	376.6	371.6	358.2	334.1	309.1	294.9
9218.9	57.5°	7329.5	4497.8	705.6	389.9	352.4	354.1	334.1	312.4	289.1	274.1
9864.5	60°	7748.5	4649.4	579.0	357.4	326.6	331.6	309.9	294.1	264.9	245.8
10971.7	62.5°	8418.3	4885.2	459.9	317.4	296.6	298.2	289.1	269.9	234.9	212.4
11792.3	65°	8949.8	4798.6	362.4	274.1	262.4	264.9	264.9	244.1	206.6	180.8
11836.4	67.5°	8889.8	4108.8	289.1	231.6	229.9	231.6	237.4	219.9	183.3	162.5
10935.0	70°	8189.2	3268.2	231.6	192.4	199.9	195.8	212.4	200.8	165.0	144.1
8477.4	72.5°	6682.2	2354.3	176.6	159.1	153.3	160.0	191.6	180.8	137.5	114.1
4490.3	75°	3904.7	1256.3	131.6	125.8	110.8	133.3	169.9	154.1	105.0	84.1
1376.3	77.5°	1271.3	438.2	96.6	92.5	82.5	107.5	145.0	130.0	85.8	66.6
403.2	80°	340.7	132.5	65.8	60.8	53.3	80.0	115.0	103.3	61.6	43.3
173.3	82.5°	136.6	55.8	38.3	34.2	29.2	55.0	90.8	83.3	45.8	27.5
54.2	85°	44.2	18.3	14.2	10.8	13.3	34.2	54.2	56.6	32.5	14.2
8.3	87.5°	5.8	2.5	2.5	3.3	2.5	5.8	16.7	15.8	9.2	1.7
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>
1916.9
1690.3
1367.9
1058.0
863.9
793.1
768.9
741.4
703.1
654.0
600.7
549.0
508.2
480.7
459.9
461.5
446.5
412.4
379.1
350.7
331.6
318.2
293.2
272.4
243.3
210.8
178.3
159.1
141.6
111.6
81.6
64.1
42.5
27.5
10.8
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