

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: P948291

Luminaire Tested: **GALN-SB3B-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13454 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

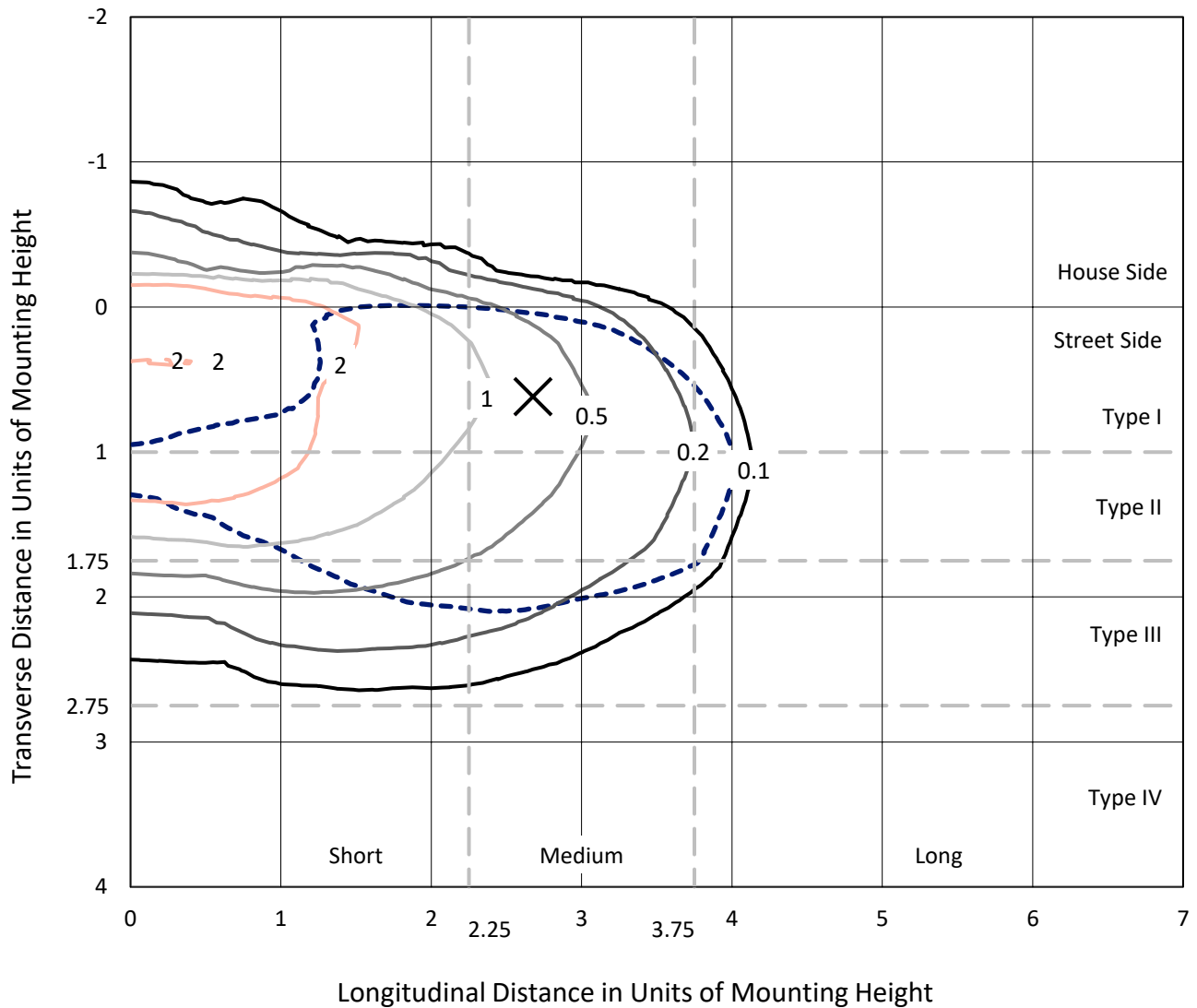
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

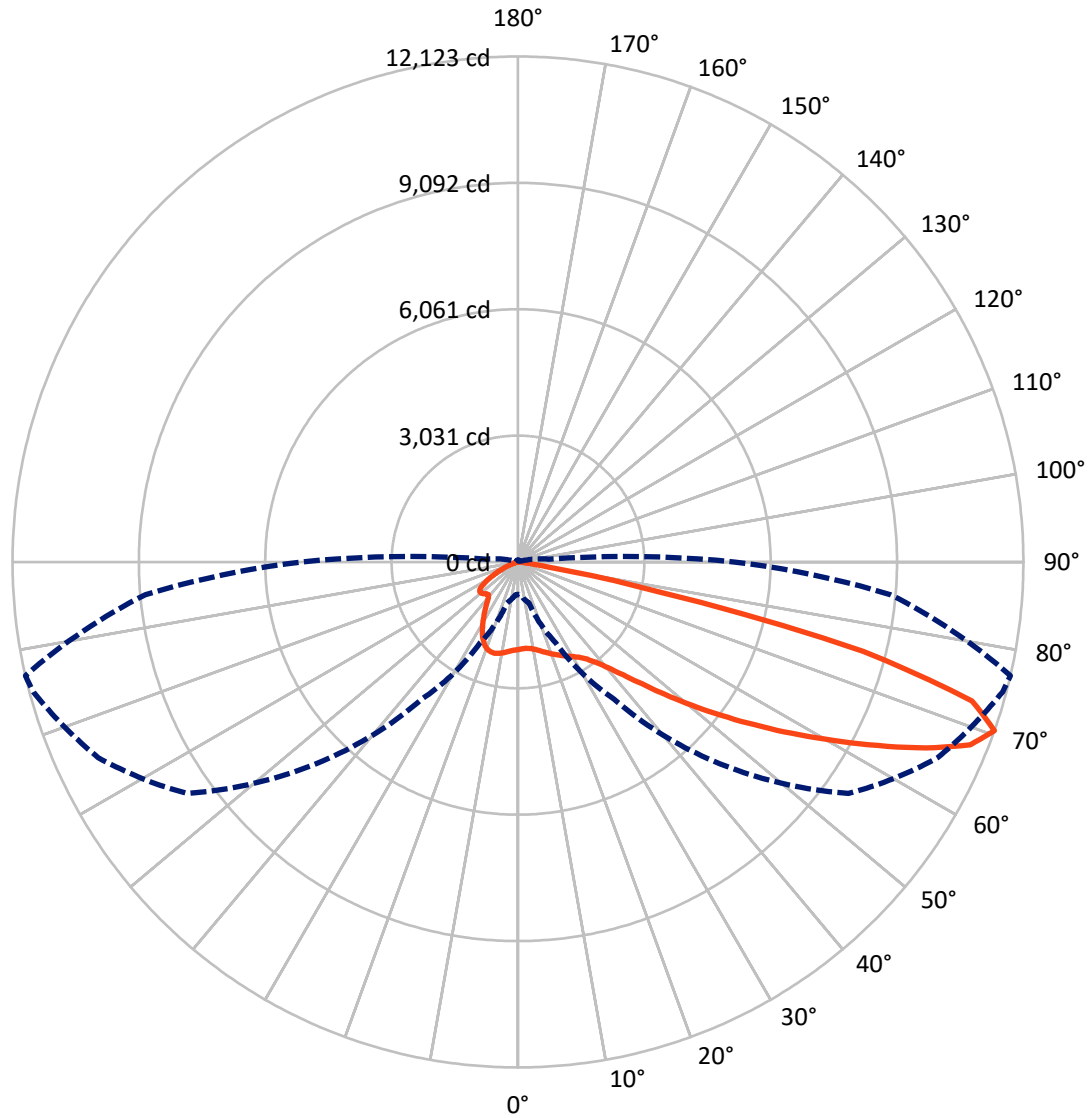
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.2	0.0	1418.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	12035.8	0.0	12035.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	13454.0	0.0	13454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.3
10°-20°	429.4	3.2
20°-30°	664.1	4.9
30°-40°	1205.0	9.0
40°-50°	2274.6	16.9
50°-60°	3286.6	24.4
60°-70°	3498.5	26.0
70°-80°	1854.0	13.8
80°-90°	60.9	0.5
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°	13454.0	100.0
0°-180°	13454.0	100.0

Coefficient of Utilization



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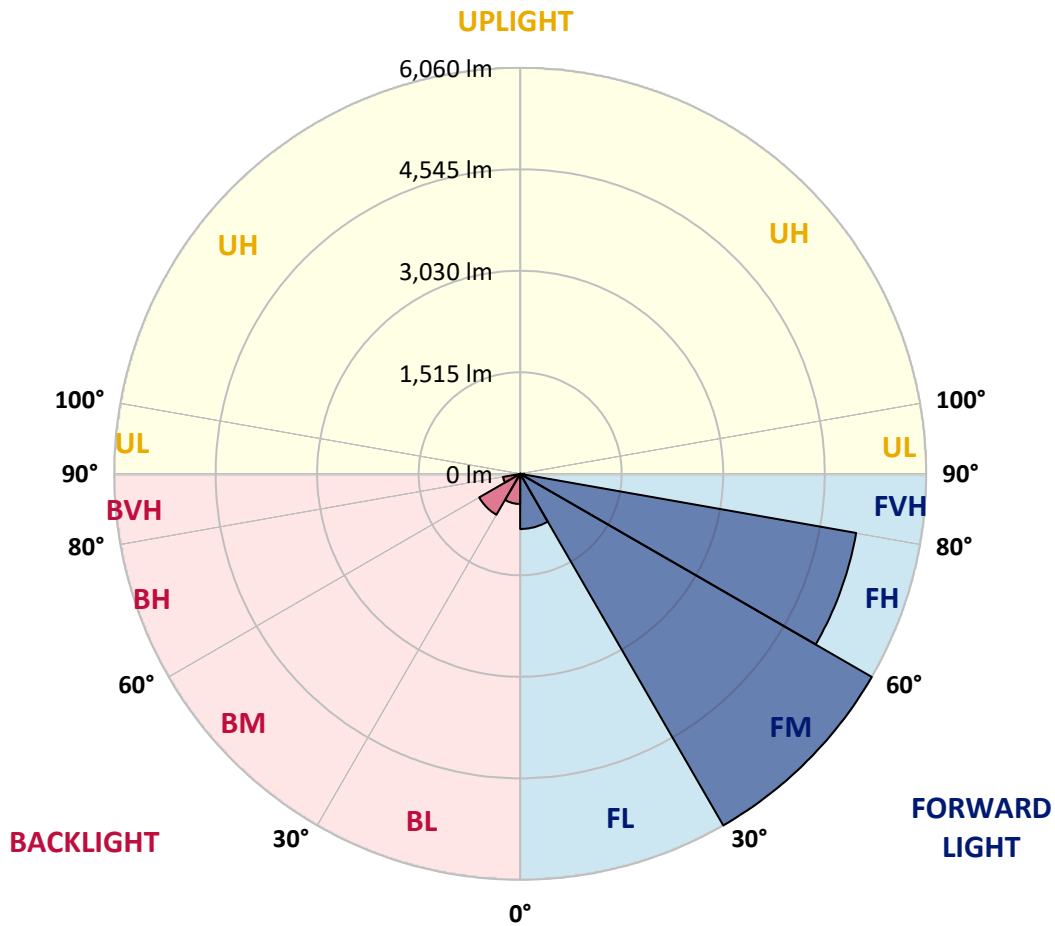
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.7	6.1			
FM (30°-60°)	6060.3	45.0			
FH (60°-80°)	5092.5	37.9			G3/7500
FVH (80°-90°)	59.2	0.4			G1/100
BL (0°-30°)	450.6	3.3	B1/500		
BM (30°-60°)	706.0	5.2	B1/1000		
BH (60°-80°)	260.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6
2.5°	1970.3	1988.1	1985.6	1997.5	2001.7	2018.7	2035.7	2058.6	2084.1	2083.3
5°	1859.0	1876.8	1881.1	1897.2	1917.6	1943.9	1978.8	2024.7	2072.2	2079.9
7.5°	1727.3	1746.0	1757.0	1789.3	1826.7	1881.1	1938.0	2005.1	2084.1	2095.2
10°	1595.6	1612.6	1627.0	1672.9	1732.4	1813.1	1905.7	2002.6	2108.8	2124.9
12.5°	1514.0	1530.2	1546.3	1586.3	1660.2	1758.7	1884.5	2014.5	2149.6	2172.5
15°	1485.1	1499.6	1512.3	1548.0	1616.8	1729.0	1880.2	2039.1	2201.4	2232.0
17.5°	1489.4	1497.0	1505.5	1532.7	1599.8	1715.4	1887.9	2081.6	2262.6	2289.7
20°	1514.0	1518.3	1519.1	1537.8	1597.3	1713.7	1903.2	2122.4	2320.3	2356.9
22.5°	1545.5	1547.2	1545.5	1558.2	1613.4	1726.4	1923.6	2171.6	2384.9	2418.9
25°	1692.5	1660.2	1619.4	1594.8	1640.6	1751.1	1954.1	2237.9	2455.4	2488.6
27.5°	2148.7	2056.1	1910.0	1746.0	1696.7	1786.8	1996.6	2305.0	2526.8	2556.5
30°	2889.6	2768.1	2520.0	2150.4	1876.8	1861.5	2051.9	2372.2	2602.4	2634.7
32.5°	3632.2	3602.4	3316.1	2804.6	2282.1	2028.1	2143.6	2463.1	2702.7	2728.2
35°	4383.2	4322.9	4088.4	3582.9	2906.6	2367.1	2296.5	2582.0	2834.4	2863.2
37.5°	4958.4	4921.9	4776.6	4360.3	3647.5	2890.4	2558.2	2766.4	3025.5	3057.8
40°	5466.5	5449.5	5400.2	5125.8	4475.8	3575.2	2965.2	3051.9	3290.6	3328.8
42.5°	5865.8	5905.8	5933.8	5857.3	5329.7	4356.9	3512.4	3452.9	3660.2	3699.3
45°	6274.5	6288.1	6401.1	6511.5	6177.6	5174.2	4129.2	3922.7	4119.8	4168.3
47.5°	6537.0	6591.4	6790.2	6984.8	6890.5	5984.8	4791.9	4477.5	4652.6	4743.5
50°	6556.6	6659.4	6933.0	7272.0	7409.6	6756.2	5512.4	5109.7	5295.7	5396.0
52.5°	6231.2	6390.9	6814.9	7311.0	7690.0	7409.6	6257.5	5741.8	5980.5	6111.4
55°	4777.5	4986.5	6370.5	7098.6	7701.0	7904.9	6983.1	6400.2	6743.5	6891.3
57.5°	4162.3	4267.7	5008.6	6729.9	7496.3	8104.6	7639.0	7027.3	7573.6	7757.1
60°	3463.1	3601.6	4200.6	6126.7	7218.4	8124.1	8218.5	7836.1	8473.3	8679.8
62.5°	2353.5	2503.9	3099.4	5090.1	6838.7	8114.8	8693.4	8668.8	9473.4	9695.1
65°	1458.0	1552.3	1944.8	4156.4	6307.6	8125.0	9190.4	9679.8	10528.6	10753.7
67.5°	1152.1	1195.4	1400.2	3191.2	5392.6	7895.6	9686.6	10630.5	11521.8	11700.2
70°	774.0	800.3	1018.7	2139.4	4011.9	6837.0	9677.3	11108.0	12033.3	12122.5
72.5°	407.8	428.2	595.6	990.7	2423.1	4859.9	8157.3	10537.1	11524.4	11390.1
75°	203.9	237.9	401.0	503.0	1034.8	2710.3	5065.5	8307.7	9070.6	8550.7
77.5°	154.6	186.9	331.4	331.4	360.2	912.5	2145.3	4531.1	4179.3	3480.1
80°	98.6	127.4	289.7	250.6	150.4	231.9	559.1	1269.3	887.9	675.5
82.5°	57.8	83.3	241.3	165.7	84.1	85.8	158.0	270.2	230.2	179.3
85°	22.9	54.4	165.7	65.4	33.1	21.2	47.6	57.8	47.6	35.7
87.5°	0.0	12.7	28.9	0.0	2.5	1.7	3.4	4.2	4.2	3.4
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°
2098.6	0°	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6	2098.6
2100.3	2.5°	2107.9	2109.6	2114.7	2115.6	2103.7	2088.4	2082.4	2079.9	2069.7	2068.8
2113.9	5°	2133.4	2141.1	2133.4	2111.3	2058.6	1984.7	1928.7	1882.8	1841.1	1828.4
2160.6	7.5°	2184.4	2192.0	2169.1	2082.4	1949.9	1802.9	1670.4	1576.9	1492.8	1461.4
2217.5	10°	2257.5	2267.7	2195.4	2020.4	1785.9	1549.7	1325.4	1167.4	1044.2	994.1
2294.8	12.5°	2349.2	2353.5	2209.9	1926.1	1572.7	1235.4	917.6	748.5	638.9	598.1
2388.3	15°	2450.3	2444.4	2211.6	1797.8	1282.1	873.4	599.0	491.9	447.8	434.2
2481.8	17.5°	2556.5	2531.9	2177.6	1612.6	963.5	597.3	444.4	418.9	411.2	407.8
2574.4	20°	2661.0	2605.8	2115.6	1370.4	691.6	446.1	403.6	395.9	391.7	390.0
2667.8	22.5°	2756.2	2661.9	2009.4	1089.2	502.1	394.2	381.5	374.7	367.0	363.6
2758.7	25°	2848.8	2694.2	1859.8	826.7	401.9	368.7	358.5	345.8	335.6	331.4
2856.4	27.5°	2938.9	2714.6	1672.9	611.7	358.5	344.9	326.3	308.4	300.8	299.1
2961.0	30°	3034.9	2721.4	1460.5	456.3	332.2	315.2	288.0	267.6	263.4	264.2
3102.0	32.5°	3152.1	2731.6	1246.4	373.8	310.1	279.5	247.2	226.0	222.6	226.0
3307.6	35°	3292.3	2751.9	1039.9	344.1	290.6	243.0	208.2	190.3	186.9	189.5
3571.0	37.5°	3482.6	2785.1	847.1	338.2	274.4	212.4	175.0	160.6	160.6	161.4
3893.8	40°	3735.8	2873.4	674.6	333.9	265.9	189.5	147.8	141.9	144.4	146.1
4305.1	42.5°	4044.2	3061.2	558.2	328.8	256.6	179.3	134.2	131.7	135.9	137.6
4797.8	45°	4390.0	3299.1	517.4	320.3	248.1	186.1	128.3	124.9	130.0	130.8
5350.1	47.5°	4747.7	3531.9	512.3	311.0	239.6	196.3	126.6	118.9	124.9	125.7
5939.7	50°	5109.7	3684.0	517.4	296.5	226.0	196.3	127.4	113.0	118.1	120.6
6551.5	52.5°	5474.2	3753.7	514.0	265.1	202.2	184.4	127.4	107.9	113.0	114.7
7212.5	55°	5827.6	3740.1	462.2	218.4	171.6	163.1	124.0	103.7	107.1	107.9
7837.0	57.5°	6107.1	3550.6	366.2	169.9	139.3	135.9	113.0	98.6	101.1	100.3
8409.6	60°	6253.3	3134.3	261.7	130.8	109.6	107.1	99.4	91.8	93.5	89.2
8894.8	62.5°	6255.0	2583.7	175.0	103.7	87.5	85.0	85.0	82.4	80.7	72.2
9270.3	65°	6121.6	1972.8	116.4	82.4	70.5	66.3	71.4	70.5	64.6	52.7
9385.0	67.5°	5819.1	1293.1	88.4	64.6	54.4	51.8	56.9	59.5	55.2	44.2
8967.0	70°	5197.2	752.8	73.1	50.1	40.8	38.2	45.9	51.0	45.9	35.7
7664.5	72.5°	4317.0	406.1	59.5	37.4	28.0	25.5	36.5	41.6	36.5	26.3
4917.6	75°	2801.2	217.5	45.9	24.6	14.4	16.1	27.2	30.6	25.5	17.0
1443.5	77.5°	940.5	96.0	28.9	11.9	6.8	6.8	16.1	18.7	11.9	5.9
262.5	80°	209.9	39.9	11.9	5.1	2.5	2.5	3.4	3.4	1.7	0.0
80.7	82.5°	68.8	16.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
20.4	85°	26.3	5.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.8	87.5°	10.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2098.6
2070.5
1820.8
1448.6
972.8
585.4
434.2
407.0
388.3
362.8
329.7
297.4
264.2
225.2
188.6
160.6
146.1
137.6
131.7
126.6
121.5
114.7
107.9
100.3
88.4
69.7
51.0
43.3
34.0
25.5
15.3
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