

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: P953665

Luminaire Tested: **GALN-SB7A-927-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-927-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

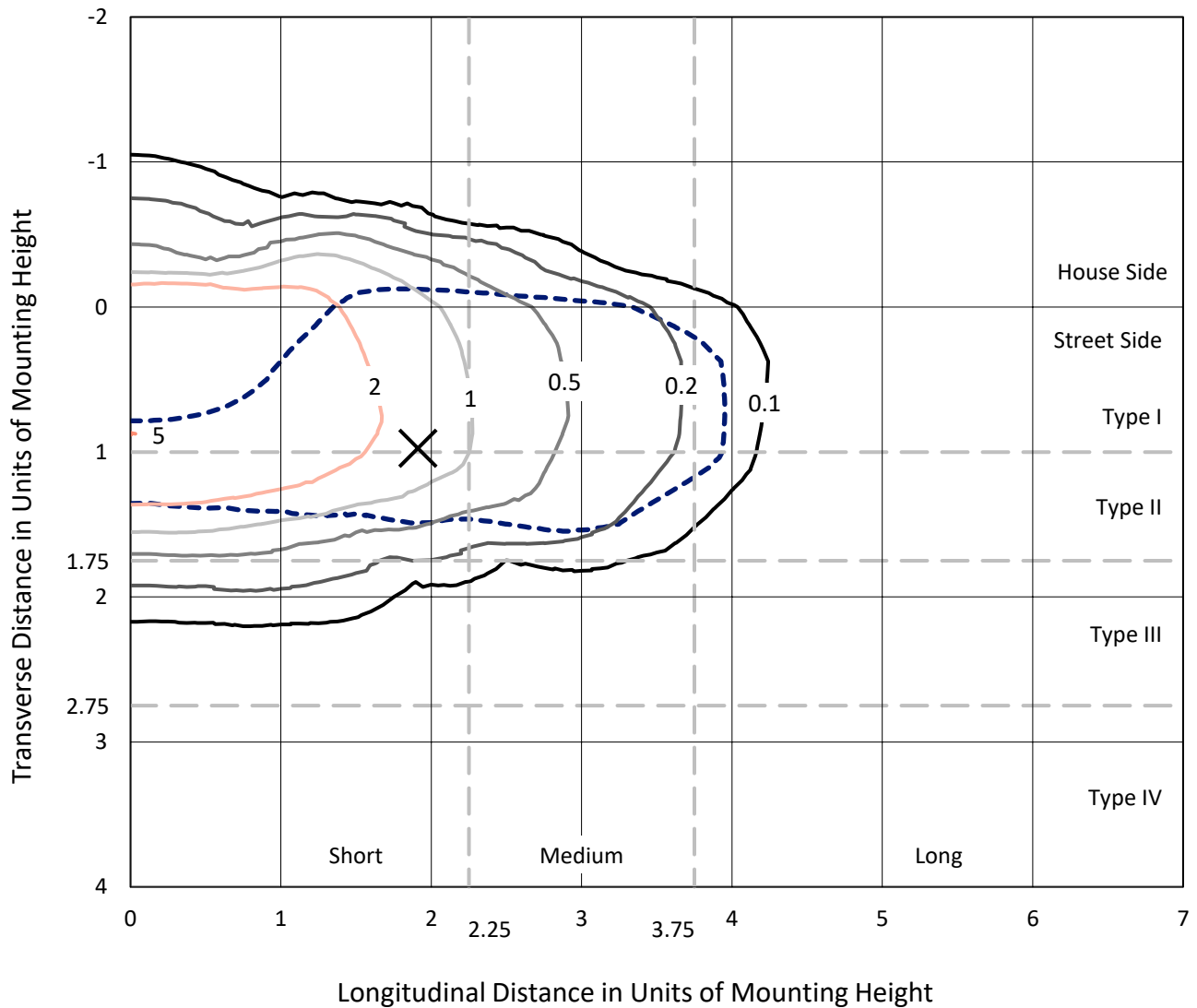
Lumens per Lamp: N/A  
Luminaire Lumens: 14840 lumens  
Efficiency: N/A  
Efficacy: 74.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

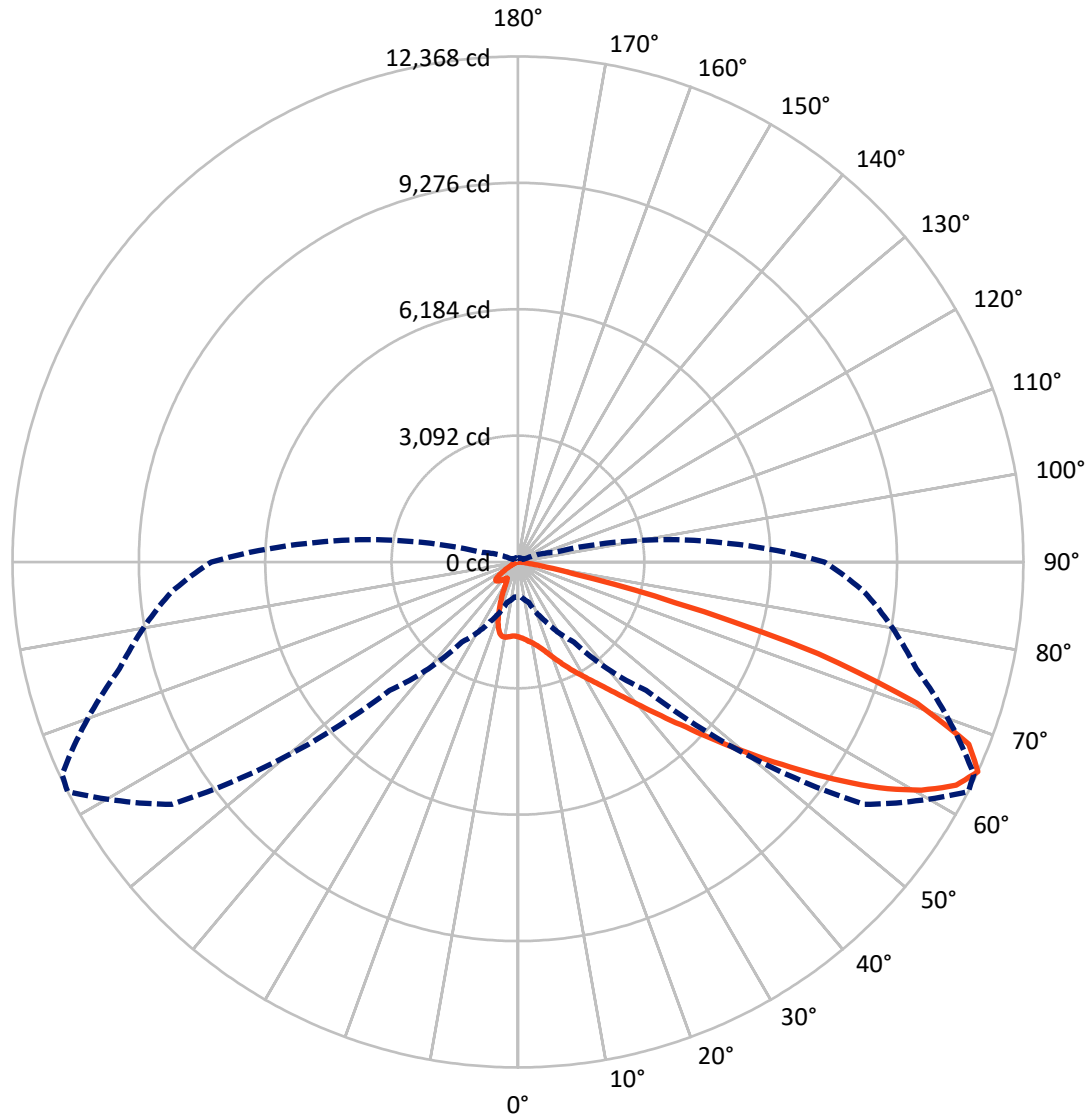
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2181.4	0.0	2181.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12658.6	0.0	12658.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14840.0	0.0	14840.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.6	1.2
10°-20°	478.8	3.2
20°-30°	833.7	5.6
30°-40°	1502.7	10.1
40°-50°	2980.3	20.1
50°-60°	4059.7	27.4
60°-70°	3240.4	21.8
70°-80°	1466.4	9.9
80°-90°	105.4	0.7
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°	14840.0	100.0
0°-180°	14840.0	100.0

**Coefficient of Utilization**



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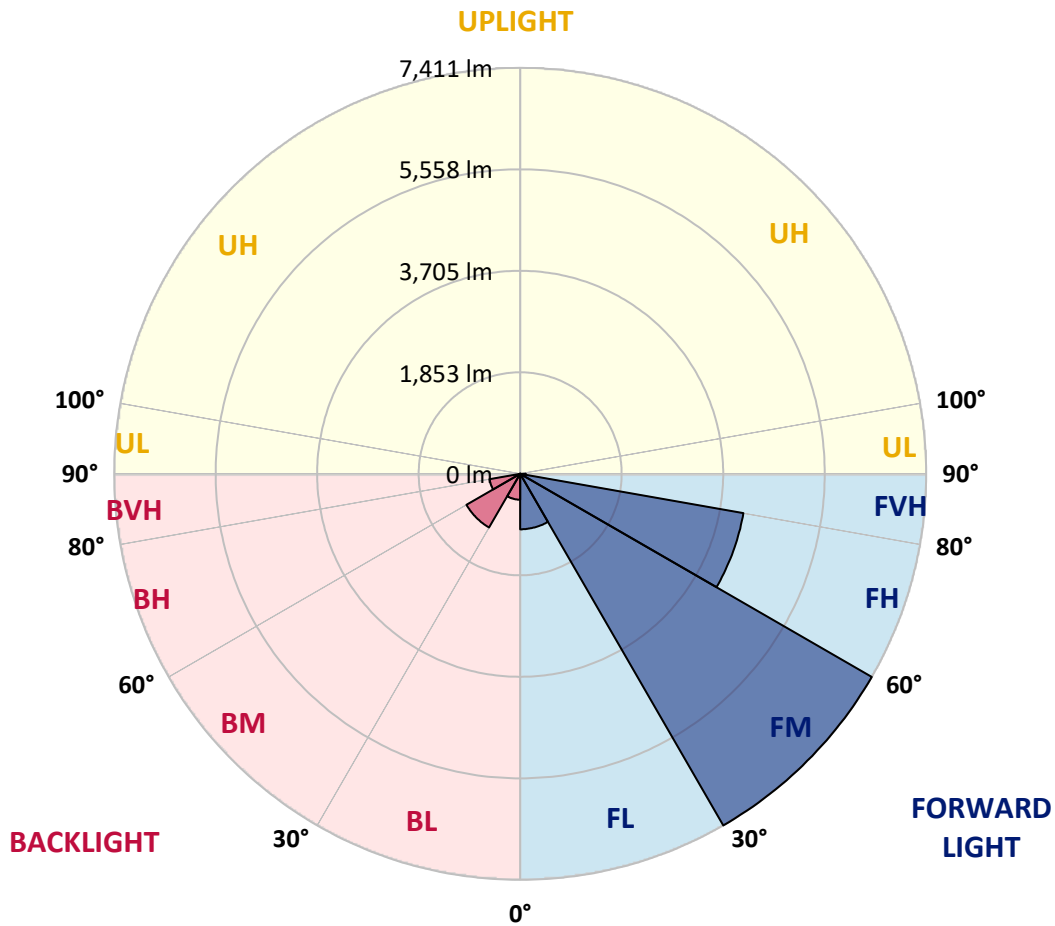
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.0	6.8			
FM (30°-60°)	7410.7	49.9			
FH (60°-80°)	4137.3	27.9			G2/5000
FVH (80°-90°)	97.6	0.7			G1/100
BL (0°-30°)	472.1	3.2	B1/500		
BM (30°-60°)	1132.0	7.6	B2/2500		
BH (60°-80°)	569.5	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.8	0.1			G0/10
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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5
2.5°	1874.4	1869.3	1876.5	1873.4	1871.4	1867.3	1865.2	1863.2	1859.1	1856.0
5°	1879.5	1876.5	1883.6	1889.7	1895.9	1902.0	1905.0	1909.1	1905.0	1896.9
7.5°	1836.6	1834.6	1849.9	1868.3	1895.9	1919.3	1944.9	1959.2	1960.2	1957.1
10°	1833.6	1828.5	1843.8	1866.2	1902.0	1943.8	1988.8	2019.4	2023.5	2036.7
12.5°	1881.6	1876.5	1897.9	1922.4	1959.2	2003.1	2058.2	2101.1	2107.2	2125.6
15°	1962.2	1955.1	1979.6	2011.2	2058.2	2108.2	2166.4	2205.2	2210.3	2232.8
17.5°	2056.1	2049.0	2077.6	2111.3	2162.3	2230.7	2298.1	2341.0	2347.1	2361.4
20°	2176.6	2167.4	2189.9	2220.5	2274.6	2356.3	2436.9	2498.2	2497.2	2497.2
22.5°	2316.5	2302.2	2321.6	2346.1	2397.1	2496.2	2603.4	2675.8	2675.8	2647.3
25°	2466.6	2452.3	2473.7	2496.2	2541.1	2653.4	2779.0	2868.8	2872.9	2823.9
27.5°	2654.4	2636.0	2652.4	2678.9	2705.4	2819.8	2968.8	3073.0	3075.0	2999.5
30°	3015.8	2963.7	2912.7	2884.1	2896.4	3009.7	3168.9	3284.3	3294.5	3190.4
32.5°	3677.4	3667.2	3487.5	3252.7	3130.2	3213.9	3392.5	3531.4	3537.5	3403.8
35°	4705.4	4693.2	4404.3	3957.1	3557.9	3487.5	3664.1	3828.5	3824.4	3673.3
37.5°	5932.6	5921.4	5540.6	4942.3	4296.0	3900.9	4014.3	4186.8	4212.3	4014.3
40°	6981.1	6939.2	6698.3	6121.5	5276.1	4587.0	4512.5	4626.8	4653.4	4418.6
42.5°	7775.4	7739.6	7617.1	7256.7	6462.4	5601.8	5099.5	5143.4	5173.0	4891.2
45°	8186.8	8178.6	8227.6	8193.9	7671.2	6847.3	5938.7	5756.0	5767.2	5415.0
47.5°	8245.0	8240.9	8464.5	8781.0	8710.5	8252.1	7015.8	6519.6	6479.8	6006.1
50°	7901.9	7893.8	8322.6	8915.7	9404.7	9432.3	8238.9	7380.3	7292.5	6617.6
52.5°	6806.5	6804.5	7508.9	8496.1	9648.7	10465.5	9447.6	8325.6	8178.6	7264.9
55°	5237.3	5275.1	6082.7	7249.6	9203.6	10962.7	10532.9	9375.1	9149.5	7916.2
57.5°	3710.0	3765.2	4563.5	5602.8	7823.3	10668.6	11266.9	10426.7	10183.7	8565.5
60°	1992.8	2041.8	2841.2	4081.7	5820.3	9572.2	11653.8	11339.4	11109.7	9182.2
62.5°	1187.3	1203.7	1534.4	2635.0	3936.7	7312.9	11489.5	12034.6	11845.8	9699.8
65°	852.5	855.5	1021.9	1609.0	2390.0	4443.1	10336.8	12367.5	12309.3	10089.8
67.5°	717.7	715.7	785.1	1068.9	1628.4	2225.6	7922.4	11896.8	12143.9	10336.8
70°	615.6	618.7	700.4	783.0	1224.1	1259.8	3938.7	10358.3	10885.1	10402.2
72.5°	458.4	468.6	544.2	713.6	923.9	866.8	1359.9	7680.4	8632.9	9800.9
75°	323.6	328.7	382.8	600.3	689.1	630.9	694.2	3970.4	5191.4	7514.0
77.5°	249.1	258.3	289.9	419.6	678.9	443.1	424.7	1374.2	2111.3	4539.0
80°	134.8	151.1	209.3	303.2	476.8	313.4	210.3	547.2	715.7	2122.5
82.5°	69.4	77.6	146.0	218.5	271.6	273.6	104.1	227.7	295.0	655.4
85°	27.6	33.7	98.0	120.5	139.9	134.8	47.0	91.9	106.2	181.7
87.5°	6.1	10.2	35.7	27.6	26.5	28.6	11.2	21.4	20.4	21.4
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°
1831.5	0°	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5	1831.5
1843.8	2.5°	1842.8	1838.7	1827.5	1815.2	1800.9	1792.7	1787.6	1786.6	1779.5	1774.4
1884.6	5°	1873.4	1869.3	1847.9	1822.3	1794.8	1773.3	1752.9	1734.5	1708.0	1702.9
1943.8	7.5°	1934.6	1923.4	1888.7	1854.0	1801.9	1739.7	1664.1	1577.3	1499.7	1476.3
2022.4	10°	2010.2	1994.9	1951.0	1889.7	1774.4	1604.9	1422.1	1252.7	1117.9	1080.1
2115.4	12.5°	2096.0	2082.7	2024.5	1911.2	1659.0	1351.7	1072.0	861.7	731.0	698.3
2214.4	15°	2198.0	2178.7	2098.0	1878.5	1452.8	1027.0	736.1	611.5	564.6	558.4
2327.7	17.5°	2306.3	2274.6	2163.3	1761.1	1175.1	730.0	568.7	532.9	512.5	506.4
2442.0	20°	2405.3	2364.5	2202.1	1583.5	878.0	568.7	509.4	486.0	467.6	460.4
2556.4	22.5°	2504.3	2446.1	2202.1	1341.5	658.5	504.3	467.6	446.1	424.7	415.5
2678.9	25°	2607.4	2529.8	2163.3	1072.0	529.9	462.5	427.8	404.3	385.9	374.7
2795.3	27.5°	2707.5	2600.3	2074.5	816.7	471.7	425.7	391.0	368.6	351.2	343.0
2921.9	30°	2802.4	2669.7	1950.0	619.7	433.9	390.0	357.3	337.9	320.6	312.4
3086.3	32.5°	2931.1	2757.5	1817.2	508.4	401.2	356.3	326.7	308.3	293.0	286.9
3299.6	35°	3109.7	2887.2	1702.9	499.2	373.7	328.7	299.1	281.8	266.5	261.4
3575.3	37.5°	3362.9	3096.5	1642.7	560.5	351.2	304.2	276.7	258.3	244.0	239.9
3925.5	40°	3675.3	3380.3	1675.3	621.7	335.9	282.8	256.3	237.9	225.6	220.5
4327.7	42.5°	4045.9	3730.5	1856.0	668.7	325.7	264.4	236.9	216.4	208.3	206.2
4784.0	45°	4471.6	4115.3	2132.7	718.7	309.3	247.1	217.5	202.1	196.0	195.0
5280.2	47.5°	4955.6	4538.0	2453.3	781.0	293.0	230.7	202.1	191.9	186.8	184.8
5797.8	50°	5435.4	4963.7	2783.0	815.7	279.7	215.4	189.9	181.7	177.6	176.6
6345.0	52.5°	5937.7	5401.7	3049.5	783.0	268.5	203.2	179.7	173.6	169.5	168.5
6849.4	55°	6416.5	5756.0	3095.4	664.6	246.0	190.9	168.5	165.4	160.3	160.3
7360.9	57.5°	6829.0	5933.6	2770.8	488.0	223.6	172.5	157.2	154.2	150.1	149.1
7822.3	60°	7207.7	5882.6	2138.8	328.7	199.1	154.2	142.9	140.9	136.8	131.7
8223.5	62.5°	7421.1	5658.0	1463.0	214.4	174.6	134.8	126.6	125.6	116.4	106.2
8520.6	65°	7501.7	5196.5	912.7	156.2	146.0	115.4	109.2	107.2	93.9	82.7
8689.1	67.5°	7431.3	4436.9	460.4	123.5	115.4	96.0	89.8	89.8	80.7	70.4
8678.9	70°	7149.5	3326.2	194.0	99.0	88.8	73.5	73.5	77.6	68.4	57.2
8228.6	72.5°	6538.0	2237.9	103.1	75.5	66.4	52.1	60.2	63.3	54.1	42.9
6735.0	75°	5197.5	1365.0	71.5	56.2	41.9	36.8	45.9	48.0	36.8	28.6
4617.6	77.5°	3554.9	784.1	48.0	35.7	26.5	21.4	31.6	29.6	19.4	13.3
1780.5	80°	1561.0	326.7	27.6	16.3	10.2	8.2	11.2	8.2	6.1	4.1
244.0	82.5°	182.7	76.6	10.2	6.1	4.1	2.0	1.0	0.0	0.0	0.0
74.5	85°	37.8	9.2	5.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0
13.3	87.5°	7.1	2.0	1.0	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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180°  
1831.5  
1779.5  
1700.9  
1465.0  
1065.8  
689.1  
552.3  
503.3  
456.4  
410.4  
370.6  
343.0  
313.4  
286.9  
261.4  
238.9  
219.5  
206.2  
194.0  
184.8  
176.6  
168.5  
159.3  
148.0  
130.7  
104.1  
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69.4  
56.2  
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