

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: P947556

Luminaire Tested: **GALN-SB2D-840-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947556  
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-SB2D-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

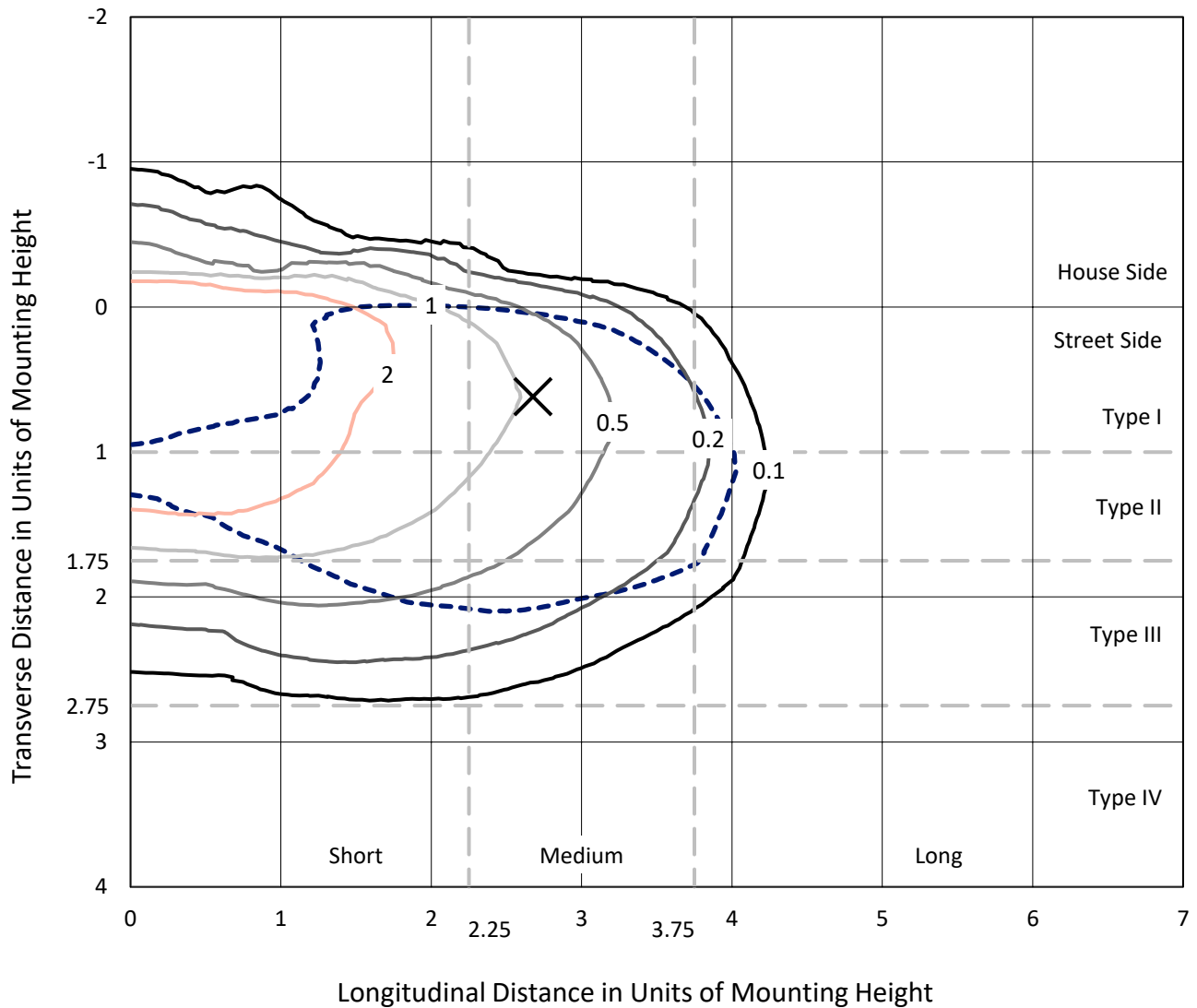
Lumens per Lamp: N/A  
Luminaire Lumens: 16206 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): 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

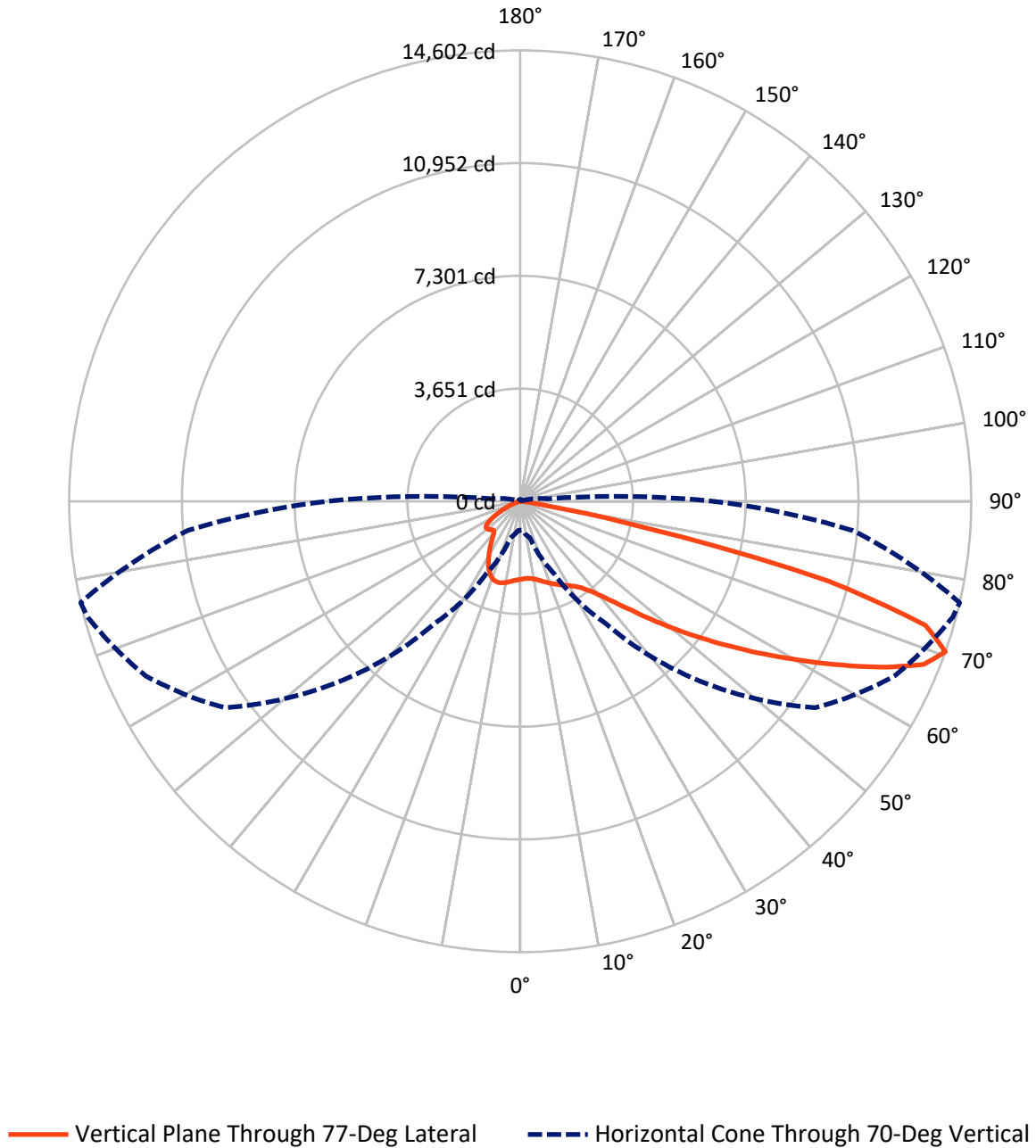
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1708.3	0.0	1708.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14497.7	0.0	14497.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	16206.0	0.0	16206.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.9	1.3
10°-20°	517.2	3.2
20°-30°	799.9	4.9
30°-40°	1451.5	9.0
40°-50°	2739.9	16.9
50°-60°	3958.9	24.4
60°-70°	4214.2	26.0
70°-80°	2233.2	13.8
80°-90°	73.3	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°	16206.0	100.0
0°-180°	16206.0	100.0

**Coefficient of Utilization**



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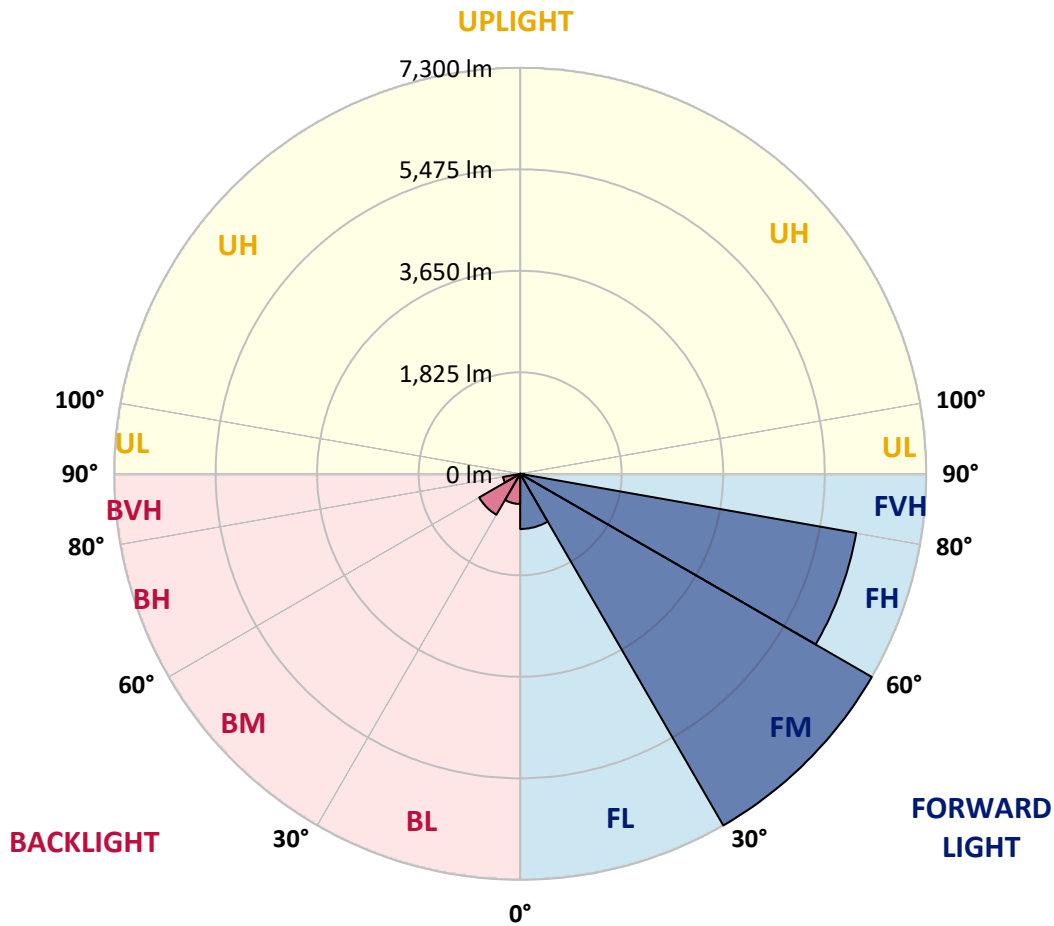
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.2	6.1			
FM (30°-60°)	7299.9	45.0			
FH (60°-80°)	6134.2	37.9			G3/7500
FVH (80°-90°)	71.4	0.4			G1/100
BL (0°-30°)	542.8	3.3	B2/1000		
BM (30°-60°)	850.4	5.2	B1/1000		
BH (60°-80°)	313.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8
2.5°	2373.3	2394.8	2391.7	2406.1	2411.2	2431.6	2452.1	2479.7	2510.4	2509.4
5°	2239.2	2260.7	2265.8	2285.3	2309.9	2341.6	2383.5	2438.8	2496.1	2505.3
7.5°	2080.6	2103.1	2116.4	2155.3	2200.3	2265.8	2334.4	2415.3	2510.4	2523.7
10°	1922.0	1942.4	1959.8	2015.1	2086.8	2184.0	2295.5	2412.2	2540.1	2559.6
12.5°	1823.7	1843.2	1862.6	1910.7	1999.8	2118.5	2269.9	2426.5	2589.2	2616.9
15°	1788.9	1806.3	1821.7	1864.7	1947.6	2082.7	2264.8	2456.2	2651.7	2688.5
17.5°	1794.1	1803.3	1813.5	1846.2	1927.1	2066.3	2274.0	2507.4	2725.4	2758.1
20°	1823.7	1828.8	1829.9	1852.4	1924.0	2064.2	2292.5	2556.5	2795.0	2839.0
22.5°	1861.6	1863.6	1861.6	1876.9	1943.5	2079.6	2317.0	2615.9	2872.7	2913.7
25°	2038.6	1999.8	1950.6	1921.0	1976.2	2109.3	2353.9	2695.7	2957.7	2997.6
27.5°	2588.2	2476.7	2300.6	2103.1	2043.8	2152.2	2405.0	2776.5	3043.6	3079.5
30°	3480.6	3334.3	3035.5	2590.3	2260.7	2242.3	2471.6	2857.4	3134.7	3173.6
32.5°	4375.1	4339.3	3994.4	3378.3	2748.9	2442.9	2582.1	2966.9	3255.5	3286.2
35°	5279.8	5207.2	4924.7	4315.8	3501.1	2851.2	2766.3	3110.2	3414.1	3448.9
37.5°	5972.7	5928.7	5753.7	5252.2	4393.5	3481.7	3081.5	3332.3	3644.4	3683.3
40°	6584.7	6564.2	6504.8	6174.3	5391.4	4306.5	3571.7	3676.1	3963.7	4009.8
42.5°	7065.7	7113.8	7147.6	7055.4	6419.9	5248.1	4230.8	4159.2	4408.9	4456.0
45°	7557.9	7574.3	7710.4	7843.5	7441.3	6232.6	4973.8	4725.1	4962.6	5020.9
47.5°	7874.2	7939.7	8179.2	8413.5	8299.9	7209.0	5772.1	5393.4	5604.2	5713.7
50°	7897.7	8021.6	8351.1	8759.4	8925.2	8138.2	6639.9	6154.8	6379.0	6499.7
52.5°	7505.8	7698.2	8208.8	8806.5	9263.0	8925.2	7537.5	6916.3	7203.8	7361.4
55°	5754.7	6006.4	7673.6	8550.7	9276.3	9521.9	8411.5	7709.4	8122.9	8300.9
57.5°	5013.7	5140.6	6033.1	8106.5	9029.6	9762.4	9201.6	8464.7	9122.8	9343.8
60°	4171.5	4338.3	5059.8	7379.9	8695.0	9785.9	9899.5	9439.0	10206.6	10455.2
62.5°	2834.9	3016.0	3733.4	6131.3	8237.5	9774.7	10471.6	10441.9	11411.1	11678.2
65°	1756.2	1869.8	2342.6	5006.6	7597.9	9786.9	11070.3	11659.8	12682.2	12953.4
67.5°	1387.8	1439.9	1686.6	3844.0	6495.6	9510.6	11668.0	12805.0	13878.6	14093.5
70°	932.3	964.1	1227.1	2577.0	4832.6	8235.4	11656.7	13380.2	14494.7	14602.1
72.5°	491.2	515.8	717.4	1193.3	2918.8	5854.0	9825.8	12692.4	13881.6	13719.9
75°	245.6	286.6	483.1	605.9	1246.5	3264.7	6101.6	10007.0	10926.0	10299.7
77.5°	186.3	225.2	399.1	399.1	433.9	1099.2	2584.1	5457.9	5034.2	4191.9
80°	118.7	153.5	349.0	301.9	181.1	279.4	673.4	1529.0	1069.5	813.6
82.5°	69.6	100.3	290.7	199.6	101.3	103.4	190.4	325.4	277.3	215.9
85°	27.6	65.5	199.6	78.8	39.9	25.6	57.3	69.6	57.3	43.0
87.5°	0.0	15.4	34.8	0.0	3.1	2.0	4.1	5.1	5.1	4.1
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°
2527.8	0°	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8	2527.8
2529.9	2.5°	2539.1	2541.1	2547.3	2548.3	2534.0	2515.6	2508.4	2505.3	2493.0	2492.0
2546.3	5°	2569.8	2579.0	2569.8	2543.2	2479.7	2390.7	2323.2	2267.9	2217.7	2202.4
2602.6	7.5°	2631.2	2640.4	2612.8	2508.4	2348.7	2171.7	2012.0	1899.5	1798.1	1760.3
2671.1	10°	2719.2	2731.5	2644.5	2433.7	2151.2	1866.7	1596.5	1406.2	1257.8	1197.4
2764.3	12.5°	2829.8	2834.9	2661.9	2320.1	1894.3	1488.1	1105.3	901.6	769.6	720.5
2876.8	15°	2951.5	2944.4	2664.0	2165.6	1544.3	1052.1	721.5	592.6	539.3	523.0
2989.4	17.5°	3079.5	3049.8	2623.0	1942.4	1160.6	719.5	535.2	504.5	495.3	491.2
3101.0	20°	3205.3	3138.8	2548.3	1650.8	833.1	537.3	486.1	476.9	471.8	469.7
3213.5	22.5°	3320.0	3206.4	2420.4	1312.0	604.8	474.9	459.5	451.3	442.1	438.0
3323.0	25°	3431.5	3245.3	2240.3	995.8	484.1	444.2	431.9	416.5	404.3	399.1
3440.7	27.5°	3540.0	3269.8	2015.1	736.9	431.9	415.5	393.0	371.5	362.3	360.2
3566.6	30°	3655.7	3278.0	1759.3	549.6	400.2	379.7	346.9	322.4	317.3	318.3
3736.5	32.5°	3796.9	3290.3	1501.4	450.3	373.5	336.7	297.8	272.2	268.1	272.2
3984.2	35°	3965.7	3314.9	1252.7	414.5	350.0	292.7	250.7	229.2	225.2	228.2
4301.4	37.5°	4195.0	3354.8	1020.3	407.3	330.6	255.9	210.8	193.4	193.4	194.4
4690.3	40°	4500.0	3461.2	812.6	402.2	320.3	228.2	178.1	170.9	174.0	176.0
5185.7	42.5°	4871.5	3687.4	672.4	396.1	309.1	215.9	161.7	158.6	163.7	165.8
5779.2	45°	5288.0	3973.9	623.3	385.8	298.8	224.1	154.5	150.4	156.6	157.6
6444.5	47.5°	5718.9	4254.4	617.1	374.6	288.6	236.4	152.5	143.3	150.4	151.5
7154.7	50°	6154.8	4437.5	623.3	357.2	272.2	236.4	153.5	136.1	142.3	145.3
7891.6	52.5°	6593.9	4521.5	619.2	319.3	243.6	222.1	153.5	130.0	136.1	138.2
8687.8	55°	7019.6	4505.1	556.7	263.0	206.7	196.5	149.4	124.9	129.0	130.0
9440.0	57.5°	7356.3	4276.9	441.1	204.7	167.8	163.7	136.1	118.7	121.8	120.8
10129.8	60°	7532.4	3775.4	315.2	157.6	132.0	129.0	119.7	110.5	112.6	107.5
10714.2	62.5°	7534.4	3112.2	210.8	124.9	105.4	102.3	102.3	99.3	97.2	87.0
11166.5	65°	7373.7	2376.4	140.2	99.3	84.9	79.8	86.0	84.9	77.8	63.5
11304.7	67.5°	7009.4	1557.6	106.4	77.8	65.5	62.4	68.6	71.6	66.5	53.2
10801.2	70°	6260.3	906.7	88.0	60.4	49.1	46.1	55.3	61.4	55.3	43.0
9232.3	72.5°	5200.0	489.2	71.6	45.0	33.8	30.7	44.0	50.1	44.0	31.7
5923.5	75°	3374.2	262.0	55.3	29.7	17.4	19.4	32.7	36.8	30.7	20.5
1738.8	77.5°	1132.9	115.6	34.8	14.3	8.2	8.2	19.4	22.5	14.3	7.2
316.2	80°	252.8	48.1	14.3	6.1	3.1	3.1	4.1	4.1	2.0	0.0
97.2	82.5°	82.9	19.4	6.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0
24.6	85°	31.7	7.2	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.2	87.5°	12.3	1.0	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>
2527.8
2494.1
2193.2
1744.9
1171.8
705.1
523.0
490.2
467.7
437.0
397.1
358.2
318.3
271.2
227.2
193.4
176.0
165.8
158.6
152.5
146.3
138.2
130.0
120.8
106.4
83.9
61.4
52.2
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