

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: P947411

Luminaire Tested: **GALN-SB2D-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

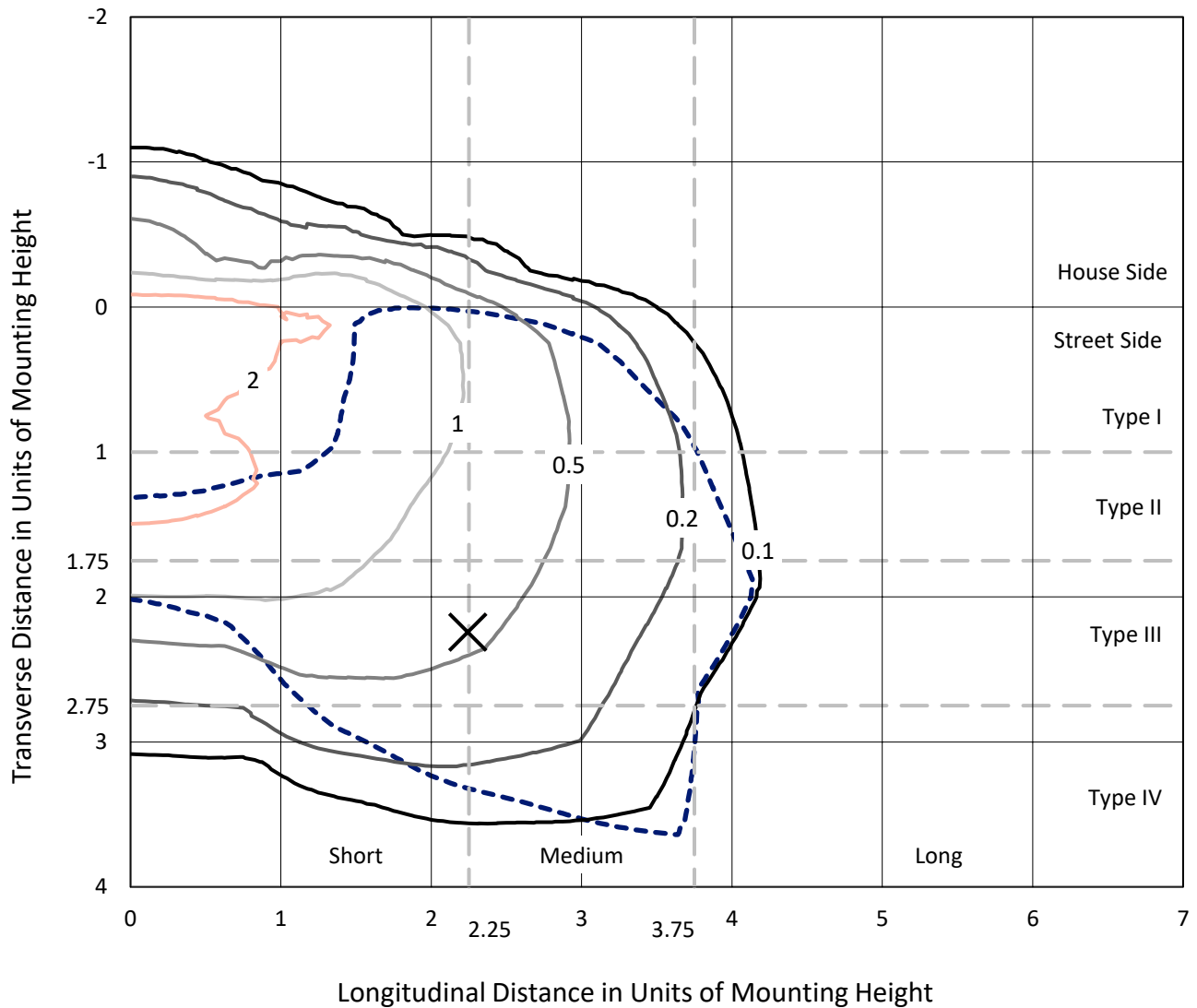
Lumens per Lamp: N/A  
Luminaire Lumens: 15676 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

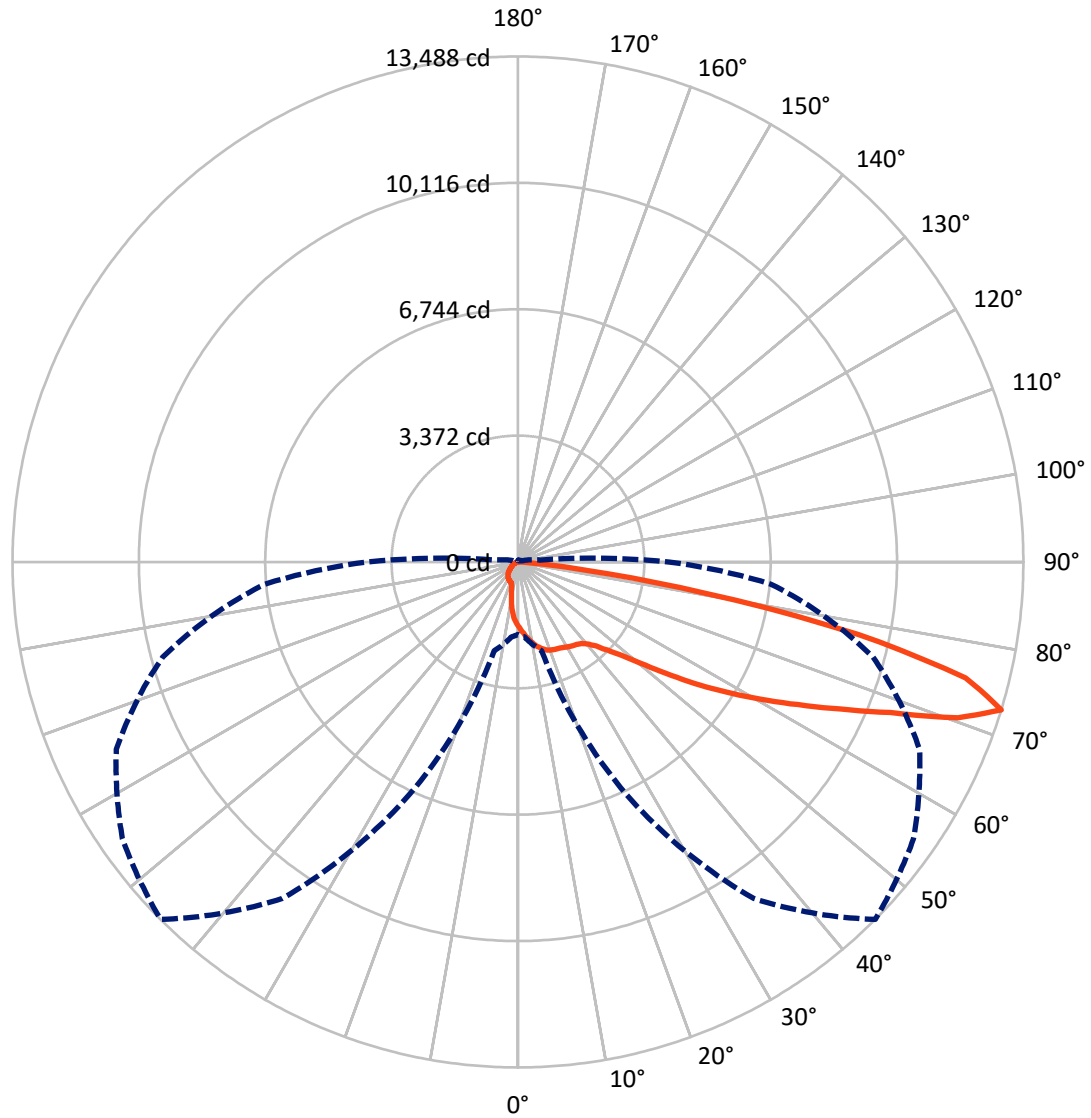
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1647.1	0.0	1647.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	14028.9	0.0	14028.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	15676.0	0.0	15676.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.8	1.0
10°-20°	472.9	3.0
20°-30°	776.6	5.0
30°-40°	1101.4	7.0
40°-50°	1820.4	11.6
50°-60°	3270.2	20.9
60°-70°	4540.8	29.0
70°-80°	3293.8	21.0
80°-90°	238.1	1.5
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°	15676.0	100.0
0°-180°	15676.0	100.0

**Coefficient of Utilization**



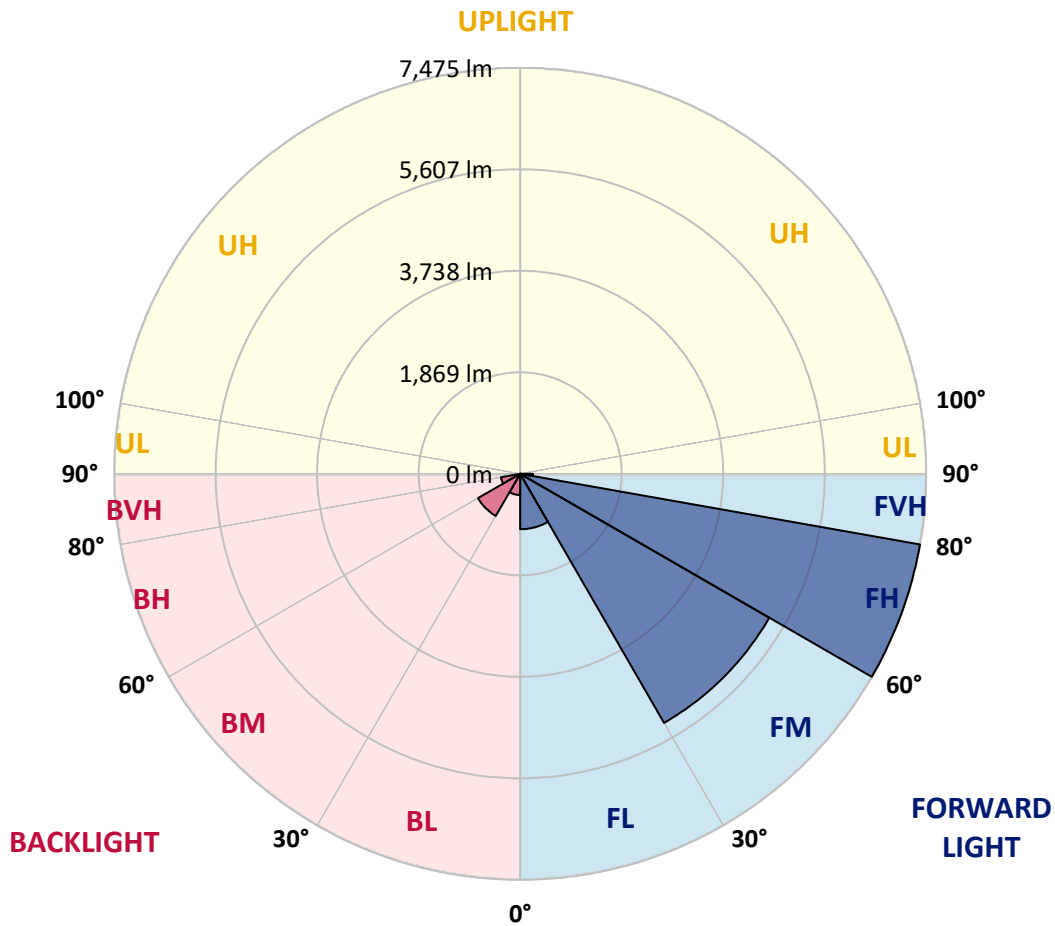
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.1	6.5			
FM (30°-60°)	5296.2	33.8			
FH (60°-80°)	7475.4	47.7			G3/7500
FVH (80°-90°)	236.1	1.5			G3/500
BL (0°-30°)	390.1	2.5	B1/500		
BM (30°-60°)	895.8	5.7	B1/1000		
BH (60°-80°)	359.2	2.3	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: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3
2.5°	1875.7	1878.9	1876.8	1863.9	1842.5	1830.8	1824.3	1802.9	1789.0	1764.4
5°	2048.0	2060.8	2053.3	2027.6	1987.0	1958.1	1949.5	1905.7	1866.1	1820.1
7.5°	2230.9	2237.4	2223.4	2190.3	2135.7	2086.5	2079.0	2018.0	1954.9	1884.3
10°	2389.3	2396.8	2375.4	2327.2	2265.2	2204.2	2193.5	2126.1	2051.2	1964.5
12.5°	2522.0	2529.5	2501.6	2443.9	2375.4	2312.3	2301.6	2230.9	2148.5	2052.2
15°	2622.6	2636.5	2599.0	2537.0	2463.1	2400.0	2394.6	2325.1	2244.8	2137.8
17.5°	2681.4	2695.3	2660.0	2585.1	2522.0	2468.5	2462.1	2404.3	2329.4	2226.7
20°	2691.0	2703.9	2666.4	2601.2	2548.7	2505.9	2502.7	2461.0	2406.4	2308.0
22.5°	2662.1	2678.2	2644.0	2591.5	2555.1	2532.7	2528.4	2504.9	2473.8	2390.4
25°	2632.2	2645.0	2619.3	2573.3	2554.1	2551.9	2555.1	2550.9	2544.4	2473.8
27.5°	2630.0	2644.0	2615.1	2571.2	2560.5	2583.0	2586.2	2606.5	2611.9	2549.8
30°	2648.2	2657.9	2630.0	2584.0	2578.7	2630.0	2631.1	2667.5	2676.1	2614.0
32.5°	2687.8	2698.5	2670.7	2603.3	2595.8	2667.5	2670.7	2718.9	2732.8	2682.5
35°	2780.9	2793.8	2761.7	2656.8	2630.0	2702.8	2712.4	2769.1	2797.0	2755.2
37.5°	3013.1	2975.7	2931.8	2764.9	2708.2	2758.4	2774.5	2840.8	2890.1	2841.9
40°	3589.8	3472.1	3335.2	2948.9	2845.1	2877.2	2890.1	2956.4	3023.8	2976.7
42.5°	4455.5	4316.4	4095.9	3372.6	3051.6	3067.7	3077.3	3135.1	3230.3	3192.9
45°	5226.9	5176.6	4951.9	4095.9	3437.9	3358.7	3370.5	3400.4	3540.6	3526.7
47.5°	5819.7	5790.8	5617.5	4926.2	4090.6	3715.0	3748.2	3762.1	3964.3	4013.5
50°	6275.5	6264.8	6109.7	5664.5	4943.4	4240.4	4252.2	4222.2	4525.0	4647.0
52.5°	6705.6	6742.0	6627.5	6350.4	5853.9	4928.4	4926.2	4785.0	5193.7	5377.8
55°	7094.1	7106.9	7118.7	7050.2	6769.8	5711.6	5691.3	5460.2	5969.5	6160.0
57.5°	7458.9	7464.3	7569.1	7709.3	7723.2	6552.6	6515.2	6238.1	6816.9	6952.8
60°	7704.0	7728.6	7950.0	8339.5	8509.7	7420.4	7400.1	7117.6	7679.3	7742.5
62.5°	7350.9	7500.7	8059.2	8831.7	9252.2	8382.3	8372.7	8107.3	8586.7	8535.3
65°	5950.2	6203.8	7186.1	9164.5	9980.9	9456.6	9470.5	9188.0	9518.7	9351.7
67.5°	4162.3	4429.8	5591.8	9191.2	10795.2	10718.1	10798.4	10355.4	10508.4	10133.9
70°	2878.3	3016.3	3772.8	8615.6	11429.7	12455.8	12453.7	11789.2	11492.8	10490.2
72.5°	1935.6	2007.3	2450.3	6835.1	10963.2	13488.3	13426.3	12884.9	11824.5	9810.8
75°	816.4	868.8	1134.2	3841.3	8673.4	12340.2	12172.2	11386.9	10506.3	7725.4
77.5°	258.9	281.4	447.3	1374.9	4777.5	9275.8	9098.2	7111.2	7041.6	3875.5
80°	123.0	143.4	251.4	552.1	1880.0	5045.0	5020.4	3226.0	3029.2	1046.5
82.5°	53.5	63.1	139.1	295.3	841.0	1799.7	1836.1	1097.8	908.4	397.0
85°	17.1	22.5	64.2	135.9	355.2	447.3	441.9	261.1	365.9	216.1
87.5°	0.0	0.0	21.4	31.0	36.4	25.7	28.9	22.5	101.6	59.9
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°
1717.3	0°	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3	1717.3
1738.7	2.5°	1725.9	1708.8	1678.8	1651.0	1626.4	1601.8	1586.8	1565.4	1563.3	1563.3
1766.6	5°	1737.7	1709.8	1656.3	1599.6	1534.4	1472.3	1410.3	1350.3	1331.1	1317.2
1811.5	7.5°	1771.9	1728.0	1643.5	1535.4	1411.3	1275.4	1180.2	1077.5	1037.9	1016.5
1871.4	10°	1821.1	1761.2	1632.8	1443.4	1242.3	1057.2	921.3	810.0	767.2	749.0
1936.7	12.5°	1875.7	1801.9	1613.5	1328.9	1057.2	835.7	703.0	651.6	645.2	645.2
2014.8	15°	1941.0	1851.1	1580.4	1194.1	863.5	661.3	614.2	616.3	622.7	627.0
2090.8	17.5°	2008.4	1903.5	1528.0	1043.2	692.3	594.9	596.0	599.2	604.5	608.8
2173.2	20°	2081.1	1955.9	1458.4	882.7	593.8	575.7	578.9	582.1	586.4	588.5
2250.2	22.5°	2159.2	2005.2	1376.0	725.5	560.7	559.6	560.7	563.9	569.2	569.2
2340.1	25°	2242.7	2059.7	1281.9	611.0	543.6	543.6	545.7	547.8	552.1	552.1
2426.7	27.5°	2328.3	2110.0	1182.3	551.0	528.6	527.5	527.5	530.7	532.9	533.9
2512.3	30°	2422.5	2168.9	1082.8	538.2	516.8	511.5	508.2	510.4	512.5	513.6
2602.2	32.5°	2518.8	2225.6	994.0	543.6	505.0	495.4	484.7	482.6	482.6	486.8
2695.3	35°	2625.8	2287.6	925.5	561.7	498.6	471.9	454.7	445.1	446.2	452.6
2806.6	37.5°	2754.2	2362.5	875.3	577.8	494.3	445.1	417.3	405.5	398.0	405.5
2959.6	40°	2922.2	2472.8	838.9	590.6	489.0	414.1	376.6	357.4	343.5	347.7
3197.1	42.5°	3169.3	2646.1	825.0	591.7	477.2	377.7	334.9	309.2	288.9	290.0
3554.5	45°	3516.0	2920.0	896.7	577.8	451.5	338.1	291.0	256.8	244.0	240.7
4088.4	47.5°	3991.1	3319.1	1062.5	548.9	414.1	299.6	248.2	219.3	209.7	204.4
4789.3	50°	4627.7	3831.6	1246.5	516.8	376.6	263.2	212.9	194.7	188.3	183.0
5620.7	52.5°	5366.0	4351.7	1397.4	484.7	339.2	231.1	190.5	179.8	174.4	170.1
6423.2	55°	6043.3	4710.1	1388.9	450.5	302.8	205.4	174.4	168.0	161.6	157.3
7114.4	57.5°	6464.9	4760.4	1144.9	413.0	261.1	185.1	159.4	155.1	147.7	142.3
7712.5	60°	6658.6	4473.6	802.5	363.8	219.3	165.8	143.4	141.2	131.6	124.1
8278.5	62.5°	6693.9	3940.8	535.0	302.8	183.0	147.7	127.3	124.1	111.3	98.4
8738.6	65°	6550.5	3178.9	370.2	236.5	156.2	128.4	109.1	102.7	88.8	76.0
8847.8	67.5°	6096.8	2232.0	257.9	170.1	132.7	101.6	86.7	84.5	73.8	63.1
8291.4	70°	5265.4	1272.2	172.3	127.3	104.9	69.5	68.5	70.6	59.9	51.4
6774.1	72.5°	4037.1	582.1	107.0	93.1	71.7	47.1	54.6	55.6	46.0	38.5
4226.5	75°	2376.5	249.3	67.4	59.9	36.4	31.0	39.6	40.7	31.0	24.6
1545.1	77.5°	808.9	94.2	42.8	35.3	18.2	17.1	25.7	25.7	17.1	9.6
310.3	80°	184.0	35.3	21.4	13.9	8.6	7.5	8.6	7.5	4.3	1.1
95.2	82.5°	52.4	13.9	8.6	5.3	3.2	3.2	1.1	0.0	0.0	0.0
33.2	85°	15.0	6.4	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
11.8	87.5°	6.4	1.1	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

(END O

180°
1717.3
1568.6
1323.6
1019.7
749.0
645.2
627.0
608.8
589.6
571.4
553.2
535.0
515.7
490.1
455.8
403.4
345.6
285.7
236.5
201.2
181.9
169.1
155.1
141.2
122.0
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