

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: P947513

Luminaire Tested: **GALN-SB2D-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2D-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

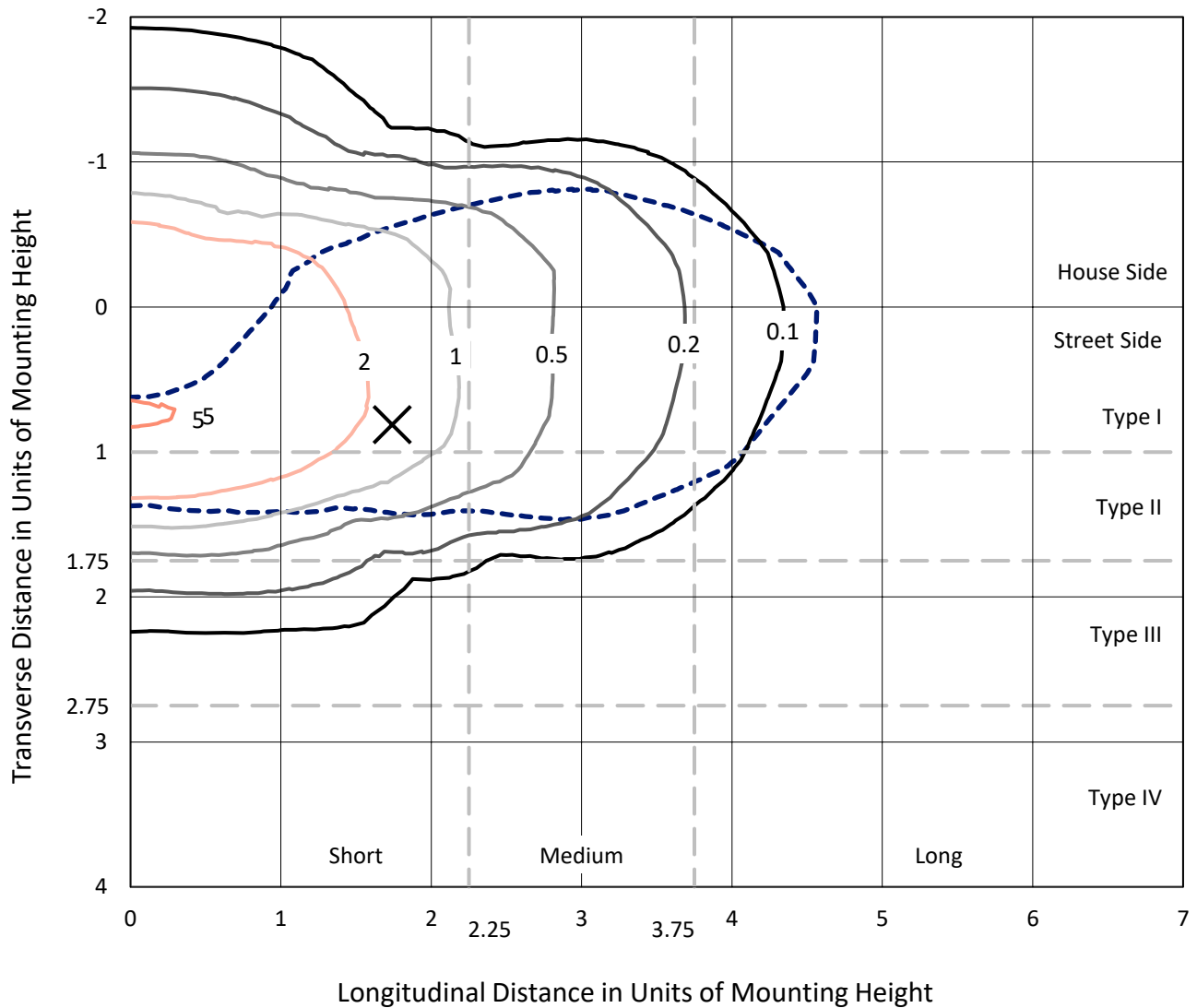
Lumens per Lamp: N/A  
Luminaire Lumens: 18531 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

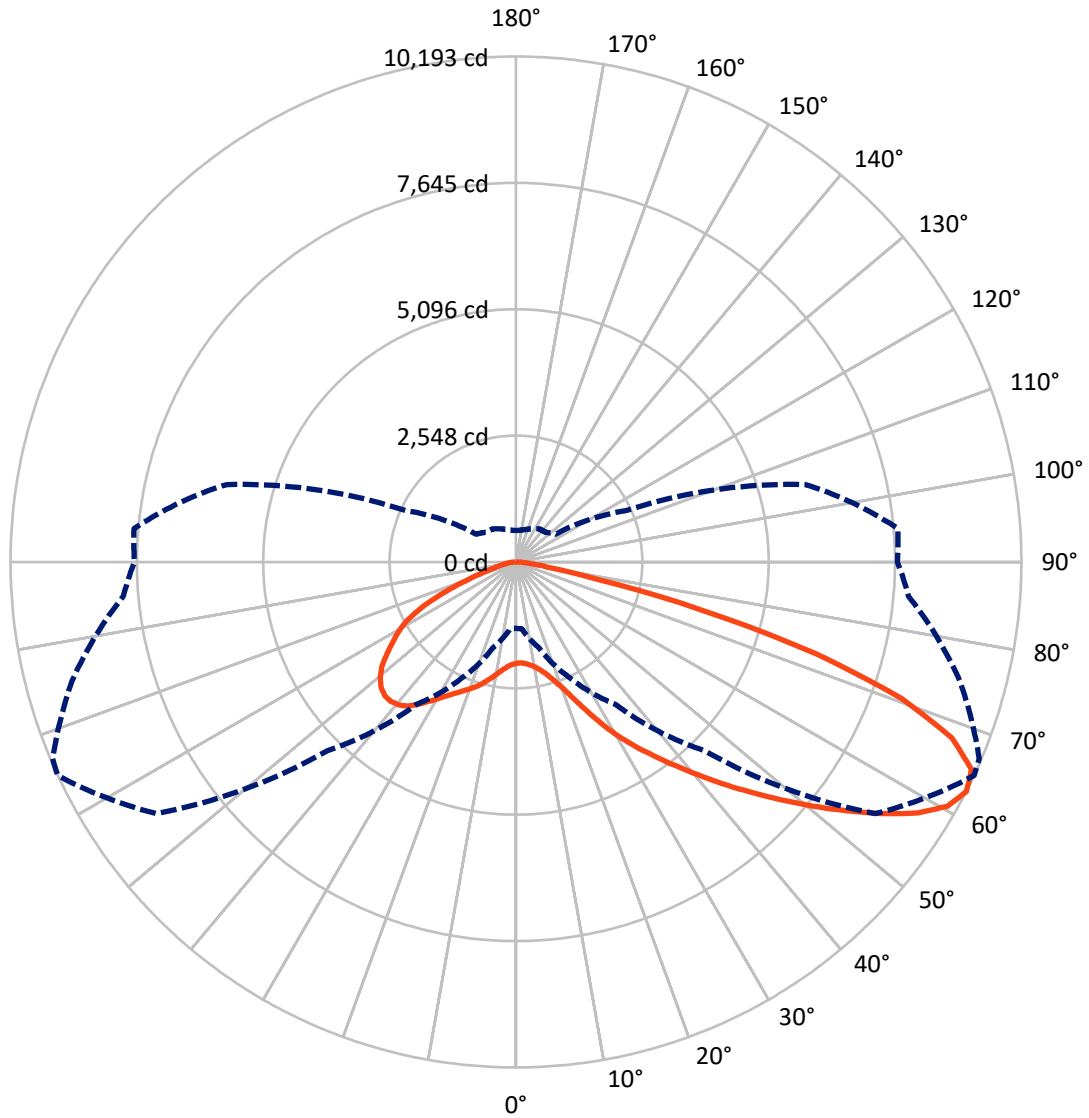
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5847.6	0.0	5847.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	12683.4	0.0	12683.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	18531.0	0.0	18531.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.6	1.1
10°-20°	690.4	3.7
20°-30°	1399.8	7.6
30°-40°	2422.4	13.1
40°-50°	3665.8	19.8
50°-60°	4297.9	23.2
60°-70°	3603.3	19.4
70°-80°	1989.3	10.7
80°-90°	258.4	1.4
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°	18531.0	100.0
0°-180°	18531.0	100.0



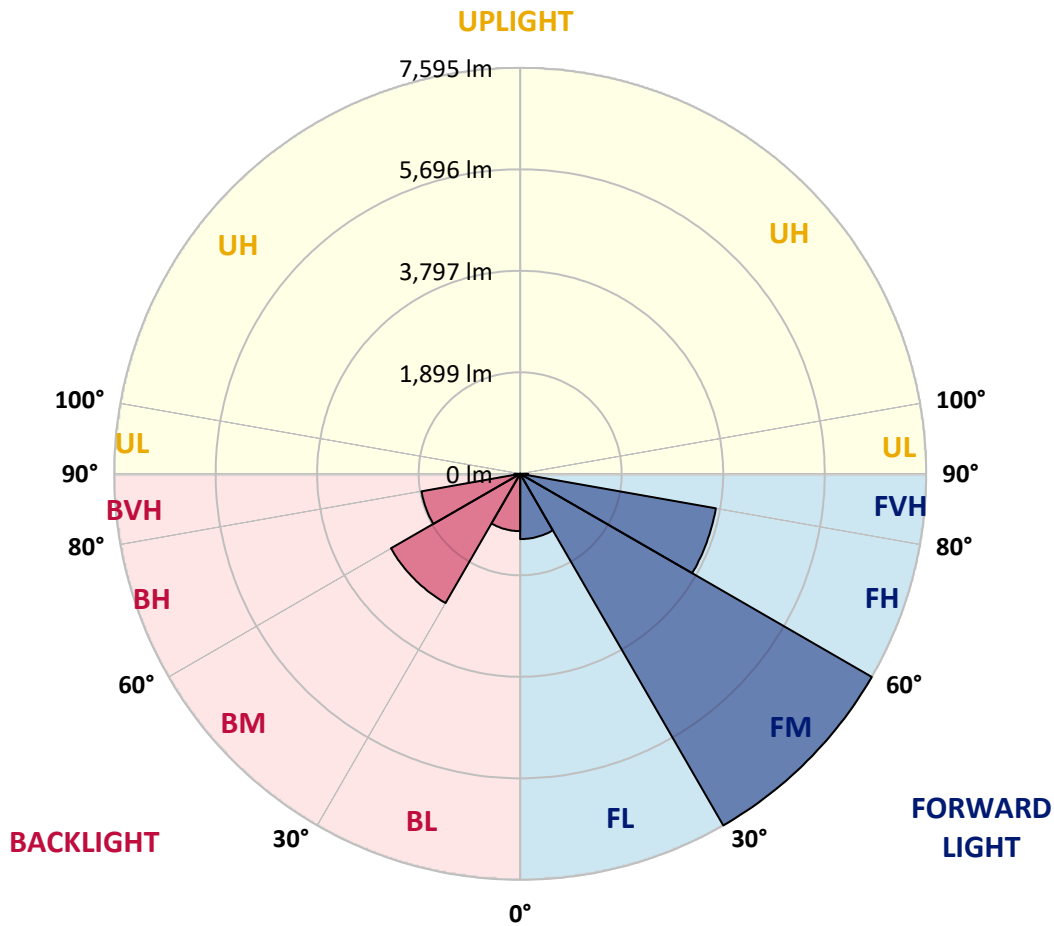
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.4	6.6			
FM (30°-60°)	7594.6	41.0			
FH (60°-80°)	3716.8	20.1			G2/5000
FVH (80°-90°)	150.6	0.8			G2/225
BL (0°-30°)	1072.4	5.8	B3/2500		
BM (30°-60°)	2791.6	15.1	B3/5000		
BH (60°-80°)	1875.9	10.1	B3/2500		G3/2500
BVH (80°-90°)	107.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0
2.5°	2028.6	2022.8	2027.6	2027.6	2029.5	2028.6	2035.3	2037.2	2040.1	2045.9
5°	2008.4	2007.4	2016.1	2023.8	2031.5	2038.2	2046.8	2059.3	2061.3	2068.0
7.5°	2001.7	1995.9	2009.3	2019.0	2037.2	2053.6	2076.6	2097.8	2106.5	2109.3
10°	2053.6	2044.0	2056.5	2062.2	2077.6	2094.0	2120.9	2154.5	2164.1	2175.7
12.5°	2142.0	2131.4	2149.7	2158.4	2172.8	2187.2	2205.5	2238.2	2243.0	2264.1
15°	2263.2	2250.7	2262.2	2272.8	2296.8	2310.3	2328.5	2360.3	2360.3	2376.6
17.5°	2427.6	2411.2	2419.9	2423.7	2439.1	2459.3	2490.1	2517.9	2532.4	2526.6
20°	2672.7	2652.5	2652.5	2633.3	2627.5	2643.9	2684.3	2722.7	2738.1	2708.3
22.5°	3040.9	3012.1	2995.8	2930.4	2904.4	2906.3	2946.7	2993.8	3006.3	2953.5
25°	3509.1	3464.0	3441.8	3345.7	3287.1	3236.1	3267.8	3328.4	3345.7	3280.3
27.5°	3977.4	3980.2	3959.1	3843.7	3746.6	3653.4	3637.0	3700.5	3718.7	3644.7
30°	4634.0	4565.7	4525.4	4386.9	4248.5	4117.7	4050.4	4076.4	4081.2	3992.7
32.5°	5200.3	5183.0	5096.4	4975.3	4797.4	4592.7	4480.2	4438.8	4431.1	4305.2
35°	5845.4	5835.8	5744.4	5600.2	5407.9	5123.4	4920.5	4802.2	4792.6	4615.7
37.5°	6501.1	6501.1	6411.6	6254.0	6055.0	5699.2	5390.6	5203.2	5172.4	4941.6
40°	7024.1	6992.3	7008.7	6942.3	6714.5	6336.7	5912.7	5640.6	5599.3	5322.4
42.5°	7321.1	7310.6	7408.6	7482.7	7389.4	7087.5	6487.6	6114.6	6056.9	5741.5
45°	7387.5	7375.9	7550.9	7822.0	7952.8	7828.8	7112.5	6613.5	6543.4	6179.9
47.5°	7234.6	7211.5	7468.2	7896.1	8315.2	8533.5	7789.3	7154.8	7052.9	6606.8
50°	6775.1	6752.9	7141.4	7709.6	8437.3	9012.3	8523.9	7728.8	7573.0	7064.4
52.5°	5776.2	5786.7	6395.3	7176.0	8276.8	9310.3	9156.5	8333.5	8146.0	7532.7
55°	4499.4	4522.5	5270.5	6130.0	7634.6	9265.1	9588.1	8956.5	8770.0	7973.0
57.5°	3221.7	3323.6	4024.5	4875.3	6401.1	8548.9	9682.4	9548.7	9368.0	8453.7
60°	2088.2	2106.5	2827.5	3685.1	4874.4	7276.0	9491.0	9997.7	9856.4	8944.0
62.5°	1338.3	1350.8	1790.1	2577.5	3508.2	5382.9	8846.9	10192.9	10149.6	9268.0
65°	983.5	973.9	1202.7	1703.6	2363.1	3319.8	7596.1	10098.7	10184.2	9470.9
67.5°	821.0	807.6	920.1	1179.7	1741.1	1885.3	5620.4	9486.2	9799.7	9447.8
70°	748.0	736.4	804.7	875.8	1358.5	1262.3	2833.3	8247.0	8729.6	9185.3
72.5°	633.6	613.4	706.6	777.8	1056.6	968.1	1171.0	6334.7	6923.1	8344.1
75°	491.3	477.8	557.6	684.5	794.1	755.7	740.3	3846.6	4488.8	6453.0
77.5°	389.4	371.1	444.2	533.6	714.3	570.1	539.4	1656.5	2293.0	4119.6
80°	293.2	276.9	337.5	422.1	549.0	429.8	349.0	675.9	864.3	2087.2
82.5°	208.6	194.2	235.5	309.6	369.2	385.5	214.4	378.8	425.9	804.7
85°	133.6	125.0	157.7	194.2	234.6	248.0	130.8	198.1	217.3	331.7
87.5°	73.1	59.6	84.6	90.4	108.6	99.0	62.5	72.1	77.9	120.2
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°
2042.0	0°	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0	2042.0
2045.9	2.5°	2049.7	2052.6	2062.2	2065.1	2071.8	2080.5	2086.3	2092.0	2092.0	2097.8
2076.6	5°	2077.6	2084.3	2104.5	2115.1	2132.4	2149.7	2160.3	2172.8	2180.5	2184.3
2125.7	7.5°	2131.4	2142.0	2170.9	2189.1	2218.9	2243.0	2259.3	2276.6	2280.5	2291.0
2193.9	10°	2204.5	2217.0	2249.7	2284.3	2319.9	2349.7	2365.1	2377.6	2382.4	2384.3
2281.4	12.5°	2288.2	2306.4	2348.7	2391.0	2428.5	2454.5	2458.3	2455.4	2442.0	2430.4
2389.1	15°	2391.0	2407.4	2454.5	2500.6	2537.2	2542.0	2517.9	2502.6	2486.2	2483.3
2509.3	17.5°	2514.1	2522.7	2566.0	2611.2	2614.1	2597.7	2562.2	2547.7	2532.4	2521.8
2666.0	20°	2657.3	2654.5	2685.2	2704.4	2684.3	2634.3	2580.4	2556.4	2541.0	2528.5
2858.3	22.5°	2828.5	2806.4	2802.5	2797.7	2743.9	2639.1	2566.0	2535.2	2511.2	2493.9
3126.5	25°	3077.5	2992.9	2934.2	2901.5	2780.4	2613.1	2519.9	2451.6	2406.4	2376.6
3454.3	27.5°	3389.0	3246.7	3098.6	3018.8	2780.4	2560.2	2408.3	2297.8	2223.7	2193.0
3771.6	30°	3686.0	3537.0	3318.8	3160.2	2773.7	2473.7	2228.5	2074.7	1988.2	1957.4
4042.7	32.5°	3939.9	3777.4	3552.4	3314.9	2757.3	2333.3	2005.5	1835.3	1751.7	1715.2
4311.0	35°	4175.4	4002.4	3787.0	3485.1	2714.1	2127.6	1760.3	1630.6	1537.3	1478.6
4584.0	37.5°	4416.7	4211.0	4009.1	3638.9	2636.2	1887.2	1571.9	1461.3	1351.7	1272.9
4874.4	40°	4679.2	4433.1	4246.6	3730.3	2508.3	1658.4	1425.8	1324.8	1208.5	1124.9
5208.9	42.5°	4985.9	4699.4	4510.9	3777.4	2333.3	1496.0	1330.6	1231.6	1122.0	1053.7
5567.5	45°	5306.0	4992.6	4752.3	3776.4	2138.2	1420.0	1299.8	1201.8	1080.6	1009.5
5935.7	47.5°	5641.6	5299.3	4960.9	3714.9	1969.0	1430.6	1282.5	1137.3	1003.7	934.5
6307.8	50°	5978.1	5634.8	5162.8	3599.5	1896.9	1407.5	1218.1	1047.0	889.3	826.8
6656.8	52.5°	6311.7	5991.5	5336.8	3435.1	1823.8	1321.9	1135.4	929.7	842.2	798.9
7017.3	55°	6647.2	6344.3	5526.2	3195.7	1641.1	1222.0	997.0	885.5	804.7	765.3
7370.2	57.5°	6983.7	6752.0	5706.0	2956.3	1411.4	1098.9	921.0	831.6	767.2	733.6
7665.3	60°	7333.6	7218.3	5891.5	2736.2	1184.5	941.2	865.3	788.4	723.0	685.5
7948.9	62.5°	7694.2	7731.7	6036.7	2452.6	975.8	845.1	815.3	736.4	673.0	637.4
8183.5	65°	8057.6	8226.8	6131.9	2059.3	791.2	753.7	761.4	679.7	615.3	584.5
8355.6	67.5°	8331.6	8583.5	6105.0	1558.4	649.0	667.2	694.1	620.1	559.5	535.5
8327.7	70°	8362.3	8541.2	5839.6	1067.2	543.2	582.6	619.1	561.5	499.0	481.7
7935.5	72.5°	7952.8	7964.3	5100.3	697.0	459.6	511.5	540.3	501.9	441.3	424.0
6942.3	75°	6878.9	6586.6	3744.7	459.6	384.6	439.4	466.3	439.4	380.7	384.6
5194.5	77.5°	5211.8	4664.8	2273.7	326.9	321.1	369.2	405.7	386.5	336.5	377.8
2612.2	80°	2685.2	2523.7	1014.3	244.2	253.8	295.2	333.6	308.6	266.3	253.8
583.6	82.5°	615.3	715.3	399.9	175.0	183.6	212.5	254.8	231.7	191.3	161.5
243.2	85°	215.4	235.5	176.9	109.6	107.7	132.7	173.1	154.8	129.8	103.8
102.9	87.5°	68.3	89.4	66.3	44.2	46.1	59.6	79.8	73.1	60.6	39.4
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>
2042.0
2097.8
2186.2
2287.2
2379.5
2430.4
2483.3
2522.7
2529.5
2499.7
2388.1
2208.4
1975.7
1733.4
1497.9
1294.1
1141.2
1067.2
1021.0
944.1
830.7
798.9
761.4
727.8
682.6
636.5
583.6
536.5
482.6
423.0
371.1
332.6
231.7
159.6
109.6
41.3
0.0

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