

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: P948588

Luminaire Tested: **GALN-SB3C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20151 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

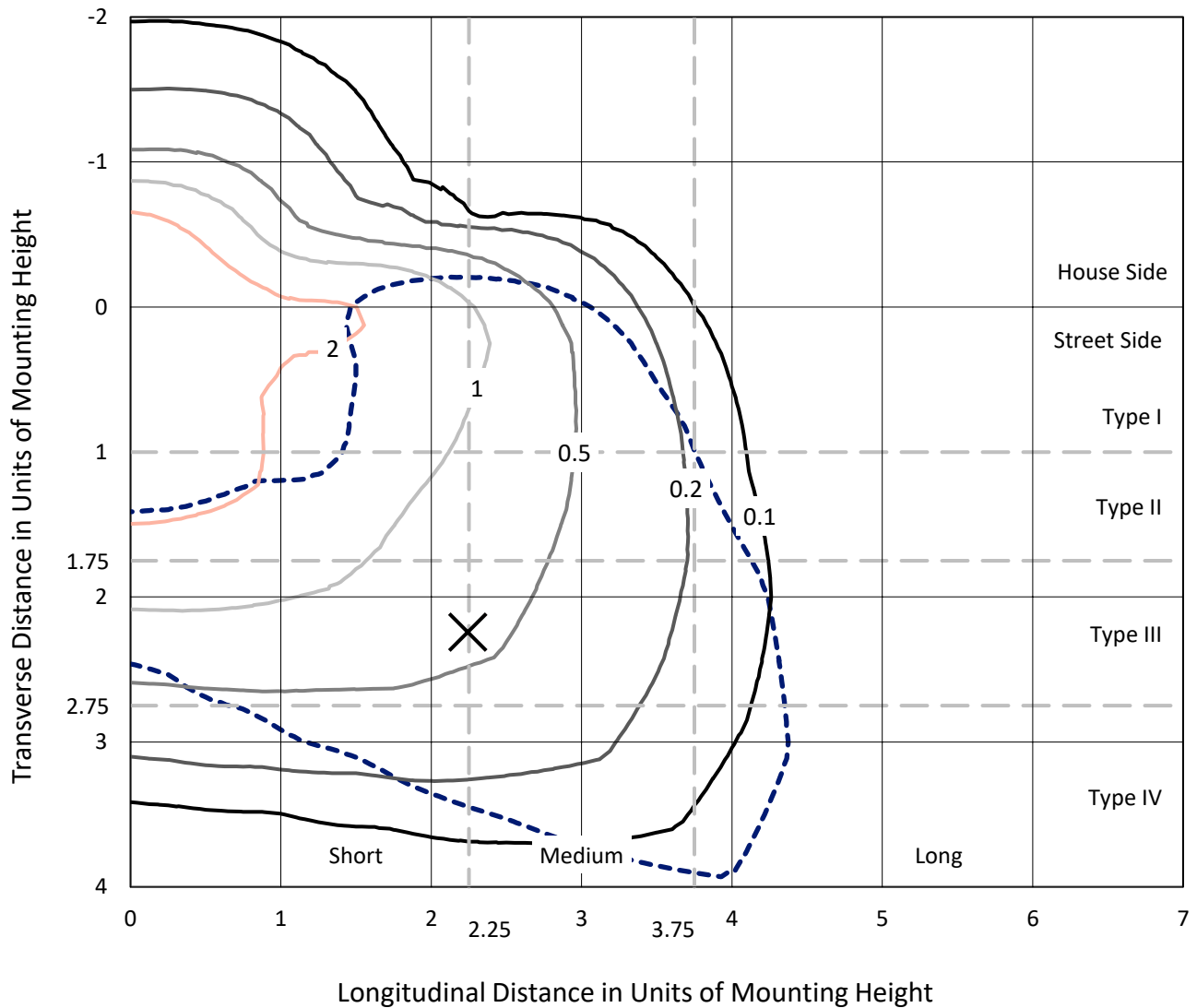
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

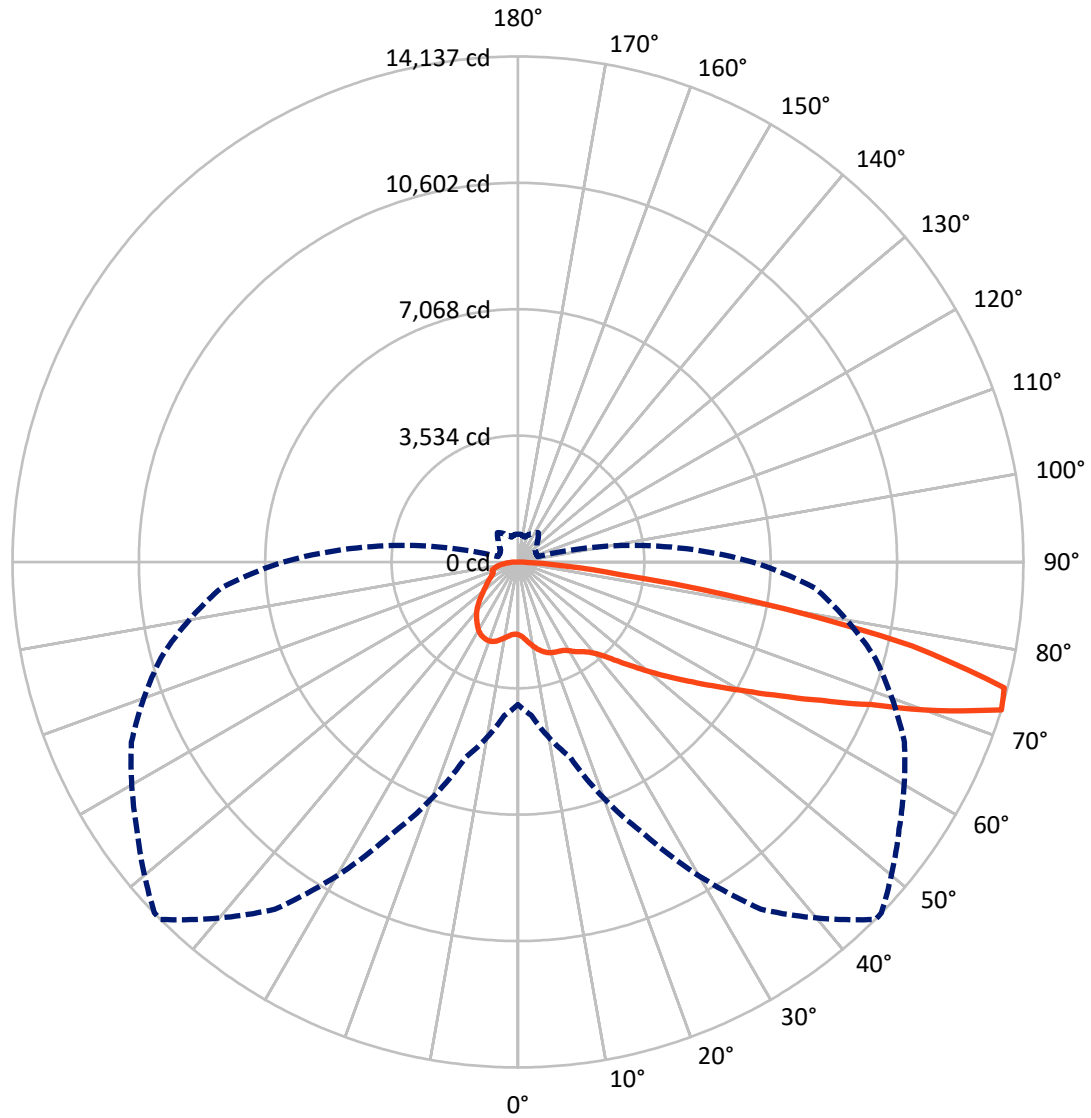
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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
House Side	Lumens	4555.4	0.0	4555.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15595.5	0.0	15595.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	20151.0	0.0	20151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	1.0
10°-20°	689.8	3.4
20°-30°	1200.0	6.0
30°-40°	1720.3	8.5
40°-50°	2422.3	12.0
50°-60°	3710.2	18.4
60°-70°	5374.8	26.7
70°-80°	4292.1	21.3
80°-90°	534.6	2.7
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°	20151.0	100.0
0°-180°	20151.0	100.0



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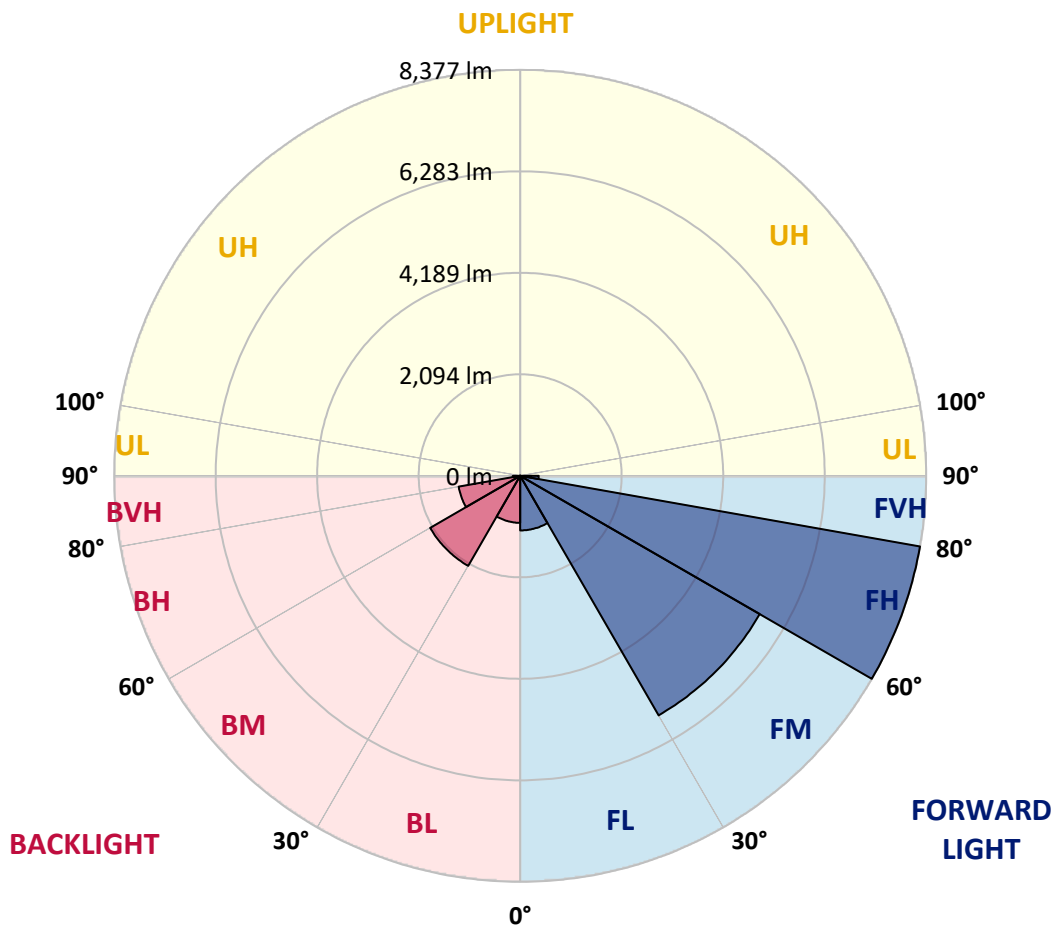
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.9	5.6			
FM (30°-60°)	5707.8	28.3			
FH (60°-80°)	8377.4	41.6			G4/12000
FVH (80°-90°)	383.5	1.9			G3/500
BL (0°-30°)	969.9	4.8	B2/1000		
BM (30°-60°)	2145.0	10.6	B2/2500		
BH (60°-80°)	1289.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	151.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8
2.5°	2112.5	2126.3	2113.5	2101.8	2096.5	2082.7	2081.7	2073.2	2067.9	2053.0
5°	2260.0	2278.1	2256.8	2233.5	2212.2	2178.3	2174.0	2149.6	2122.0	2090.2
7.5°	2426.7	2442.6	2418.2	2383.2	2346.0	2289.7	2288.7	2244.1	2200.6	2146.4
10°	2572.1	2593.3	2560.4	2512.7	2466.0	2402.3	2394.8	2343.9	2288.7	2218.6
12.5°	2700.6	2715.4	2683.6	2625.2	2571.0	2507.4	2497.8	2441.5	2380.0	2300.4
15°	2802.5	2821.6	2779.1	2716.5	2659.2	2596.5	2588.0	2537.1	2475.5	2391.6
17.5°	2869.3	2885.3	2841.7	2771.7	2716.5	2664.5	2658.1	2615.6	2561.5	2476.6
20°	2894.8	2911.8	2866.2	2795.0	2744.1	2703.7	2700.6	2669.8	2632.6	2555.1
22.5°	2920.3	2936.2	2876.8	2802.5	2757.9	2732.4	2731.3	2711.2	2696.3	2632.6
25°	3023.3	3027.5	2947.9	2840.7	2777.0	2754.7	2753.6	2752.6	2758.9	2709.0
27.5°	3112.4	3111.4	3043.4	2942.6	2843.9	2797.2	2796.1	2806.7	2826.9	2785.5
30°	3243.0	3231.3	3150.6	3045.6	2955.3	2883.1	2876.8	2867.2	2883.1	2850.2
32.5°	3520.1	3482.9	3352.3	3165.5	3047.7	2992.5	2984.0	2924.5	2930.9	2910.7
35°	3917.1	3868.2	3694.1	3392.7	3162.3	3083.8	3079.5	3004.2	2991.4	2973.4
37.5°	4389.5	4328.9	4126.2	3721.7	3359.8	3189.9	3183.5	3115.6	3063.6	3044.5
40°	4864.0	4787.5	4619.8	4123.0	3650.6	3367.2	3347.0	3244.1	3184.6	3152.8
42.5°	5324.7	5261.0	5117.7	4573.1	4009.4	3626.2	3581.6	3405.4	3360.8	3331.1
45°	5732.3	5675.0	5569.9	5054.0	4429.8	3978.6	3935.1	3647.4	3633.6	3633.6
47.5°	6063.5	6050.8	5939.3	5544.4	4925.5	4379.9	4304.5	3983.9	4021.1	4078.4
50°	6430.8	6395.8	6276.9	6027.4	5508.3	4839.5	4778.0	4396.9	4535.9	4693.1
52.5°	6768.4	6787.5	6654.8	6530.6	6166.5	5352.3	5244.0	4884.1	5184.5	5444.6
55°	7115.5	7116.5	7079.4	7062.4	6856.5	5919.1	5800.2	5470.1	5947.8	6270.5
57.5°	7441.4	7443.5	7498.7	7648.4	7656.9	6573.0	6438.2	6189.8	6796.0	7125.0
60°	7732.2	7747.1	7897.8	8248.1	8360.7	7322.5	7195.1	7040.1	7672.8	8004.0
62.5°	7829.9	7884.0	8219.5	8717.3	9056.0	8241.8	8116.5	8024.2	8594.2	8902.1
65°	7664.3	7788.5	8437.1	9104.8	9771.4	9334.1	9209.9	9109.1	9551.7	9841.5
67.5°	7257.7	7418.0	8424.4	9511.4	10639.8	10648.3	10532.6	10295.8	10578.2	10689.7
70°	6186.6	6426.5	7682.3	9663.2	11636.6	12445.5	12334.0	11724.7	11602.6	11063.3
72.5°	3986.1	4308.8	5656.9	8413.7	11858.4	14136.5	14130.1	13014.4	11926.4	10337.2
75°	1454.3	1651.8	2628.4	5281.1	9954.0	14050.5	14091.9	12793.6	10887.1	7984.9
77.5°	529.7	579.6	857.7	2029.7	6121.9	11273.5	11359.5	10227.9	7749.2	4007.3
80°	278.1	305.7	439.5	787.7	2623.1	6695.1	6829.9	6078.4	3642.1	1207.0
82.5°	153.9	166.7	246.3	427.8	1181.5	2863.0	2943.6	2401.2	1281.3	511.7
85°	82.8	88.1	115.7	233.5	577.5	992.5	1014.8	717.6	510.6	300.4
87.5°	24.4	29.7	38.2	74.3	226.1	222.9	228.2	142.2	201.7	151.8
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°
2032.8	0°	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8	2032.8
2048.8	2.5°	2042.4	2039.2	2027.5	2022.2	2015.9	2014.8	2020.1	2021.2	2022.2	2023.3
2072.1	5°	2061.5	2050.9	2040.3	2033.9	2036.0	2037.1	2047.7	2055.1	2060.4	2064.7
2115.6	7.5°	2098.7	2090.2	2072.1	2071.1	2074.2	2083.8	2097.6	2114.6	2124.1	2131.6
2171.9	10°	2153.9	2137.9	2116.7	2119.9	2126.3	2140.1	2168.7	2182.5	2198.4	2212.2
2240.9	12.5°	2210.1	2196.3	2171.9	2174.0	2184.6	2209.1	2236.7	2253.6	2264.3	2274.9
2315.2	15°	2283.4	2259.0	2232.4	2232.4	2251.5	2278.1	2290.8	2304.6	2311.0	2322.6
2394.8	17.5°	2358.7	2326.9	2291.9	2289.7	2313.1	2325.8	2333.3	2335.4	2337.5	2350.2
2472.3	20°	2434.1	2399.1	2349.2	2344.9	2350.2	2348.1	2347.1	2344.9	2348.1	2364.0
2551.9	22.5°	2508.4	2468.1	2399.1	2380.0	2365.1	2344.9	2343.9	2342.8	2344.9	2360.9
2637.9	25°	2595.5	2546.6	2454.3	2397.0	2347.1	2319.5	2322.6	2323.7	2325.8	2338.6
2727.1	27.5°	2689.9	2635.8	2505.2	2391.6	2301.4	2282.3	2277.0	2280.2	2287.6	2307.8
2816.3	30°	2784.4	2720.7	2551.9	2370.4	2244.1	2217.6	2200.6	2208.0	2231.4	2251.5
2893.8	32.5°	2870.4	2806.7	2589.1	2323.7	2170.8	2129.4	2107.2	2116.7	2140.1	2147.5
2979.7	35°	2971.2	2899.1	2605.0	2249.4	2091.2	2027.5	1997.8	1984.0	1995.7	1988.3
3080.6	37.5°	3083.8	3008.4	2602.9	2151.7	1997.8	1924.6	1883.2	1831.2	1806.7	1781.3
3229.2	40°	3250.4	3142.2	2577.4	2033.9	1882.1	1815.2	1740.9	1652.8	1597.6	1547.7
3469.1	42.5°	3477.6	3327.9	2530.7	1904.4	1751.5	1688.9	1588.1	1485.1	1398.0	1315.2
3833.2	45°	3816.2	3571.0	2472.3	1766.4	1610.4	1548.8	1439.4	1323.7	1225.0	1118.9
4350.2	47.5°	4304.5	3898.0	2417.1	1609.3	1461.7	1405.5	1306.8	1199.5	1082.8	979.8
5097.5	50°	4975.4	4367.2	2366.2	1456.4	1315.2	1272.8	1194.2	1084.9	967.1	884.3
5973.3	52.5°	5828.9	5005.1	2344.9	1308.9	1178.3	1162.4	1099.8	997.8	886.4	816.3
6994.5	55°	6808.7	5768.4	2344.9	1167.7	1058.4	1063.7	1020.1	925.7	829.1	766.4
8047.5	57.5°	7808.7	6541.2	2302.5	1037.1	956.4	978.7	951.1	868.3	781.3	716.5
9154.7	60°	8730.1	7188.7	2130.5	918.2	866.2	901.2	883.2	812.1	705.9	651.8
10080.4	62.5°	9438.1	7553.9	1799.3	823.8	791.9	832.2	822.7	737.8	692.1	669.8
10840.4	65°	9792.7	7494.5	1375.8	739.9	729.3	791.9	771.7	768.6	732.5	707.0
11087.8	67.5°	9575.1	6982.8	997.8	678.3	693.2	754.8	832.2	845.0	778.1	728.2
10391.4	70°	8620.7	6057.1	743.1	619.9	647.5	755.8	949.0	884.3	763.2	704.9
8334.1	72.5°	6558.2	4516.8	576.4	558.4	588.1	761.1	1001.0	866.2	720.8	779.2
5192.0	75°	3750.4	2479.8	462.8	483.0	513.8	711.2	974.5	819.5	687.9	715.5
2057.3	77.5°	1429.9	953.3	382.2	408.7	412.9	621.0	932.0	816.3	655.0	639.0
616.8	80°	495.7	372.6	316.3	324.8	319.5	552.0	893.8	710.2	536.1	479.8
254.8	82.5°	202.8	185.8	250.5	239.9	227.2	428.9	721.8	580.7	438.4	387.5
123.1	85°	88.1	117.8	165.6	145.4	131.6	297.2	578.5	491.5	370.5	319.5
40.3	87.5°	18.0	44.6	70.1	65.8	67.9	198.5	410.8	349.2	262.2	196.4
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>
2032.8
2027.5
2066.8
2133.7
2209.1
2279.1
2326.9
2354.5
2370.4
2371.5
2355.6
2328.0
2273.8
2174.0
2011.6
1797.2
1550.9
1307.8
1106.1
968.1
879.0
811.0
760.1
705.9
643.3
662.4
698.5
719.7
695.3
772.8
715.5
582.8
463.9
383.2
318.5
153.9
0.0

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