

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: P941585

Luminaire Tested: **GALN-SB5A-940-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941585  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5A-940-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16270 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

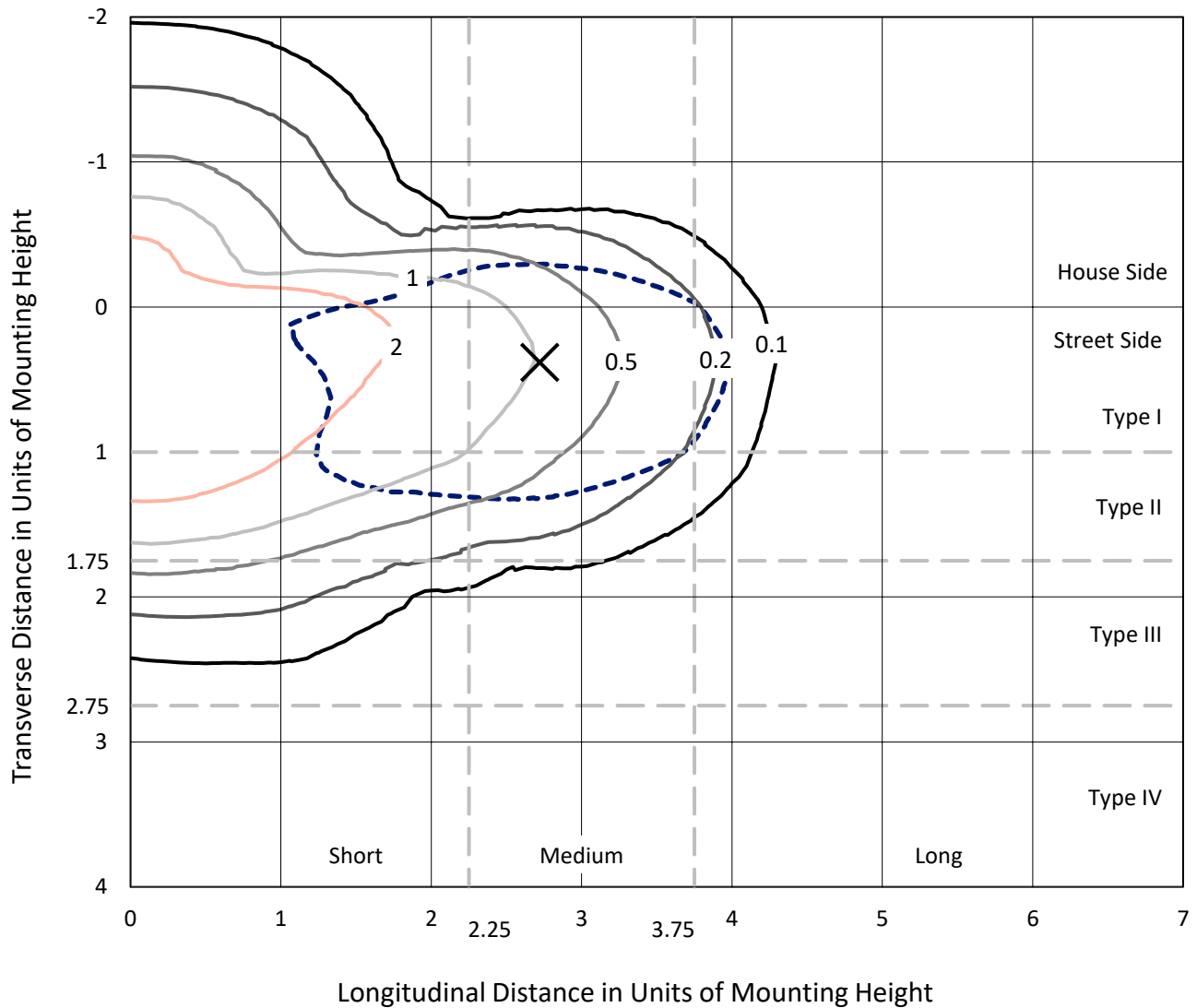
Input Watts (W): 141.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

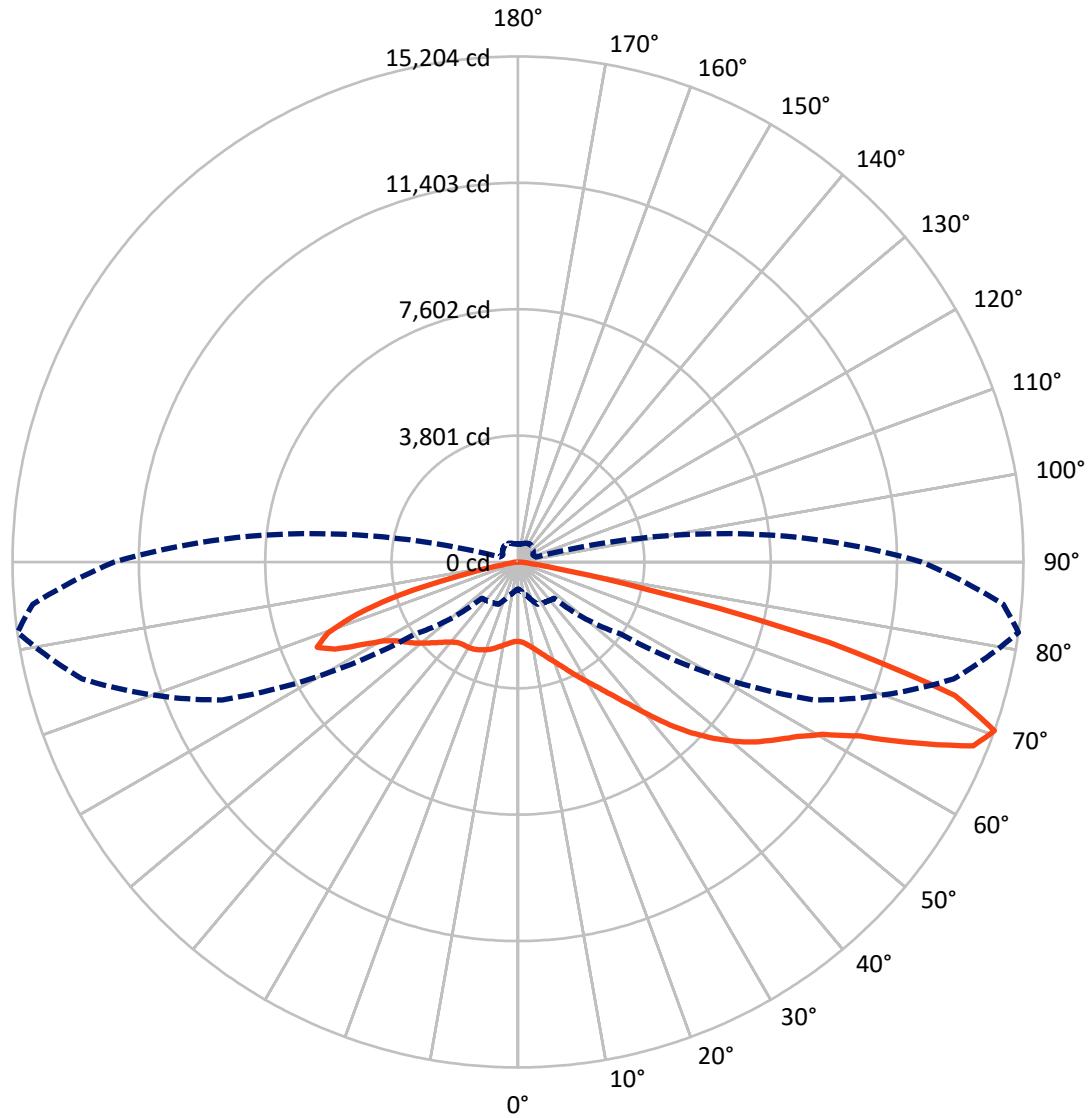
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4010.9	0.0	4010.9
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	12259.0	0.0	12259.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	16270.0	0.0	16270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.2	1.4
10°-20°	647.1	4.0
20°-30°	1082.5	6.7
30°-40°	1691.1	10.4
40°-50°	2693.3	16.6
50°-60°	3748.1	23.0
60°-70°	3920.7	24.1
70°-80°	2049.2	12.6
80°-90°	212.8	1.3
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°	16270.0	100.0
0°-180°	16270.0	100.0

**Coefficient of Utilization**



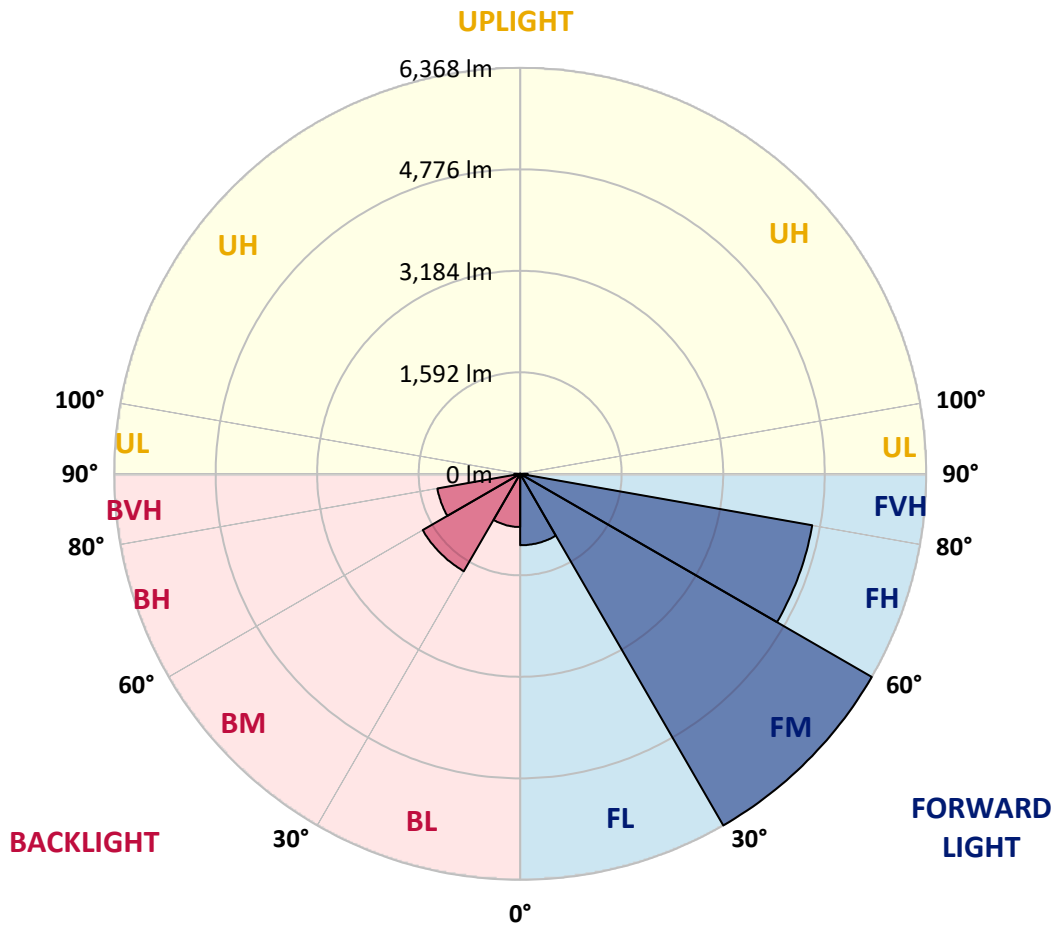
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.4	6.9			
FM (30°-60°)	6367.9	39.1			
FH (60°-80°)	4651.6	28.6			G2/5000
FVH (80°-90°)	119.1	0.7			G2/225
BL (0°-30°)	834.4	5.1	B2/1000		
BM (30°-60°)	1764.7	10.8	B2/2500		
BH (60°-80°)	1318.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	93.7	0.6			G1/100
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4
2.5°	2442.4	2456.2	2451.9	2447.5	2447.5	2441.5	2440.6	2432.0	2425.1	2413.9
5°	2473.4	2488.1	2486.4	2489.8	2501.1	2503.7	2506.3	2501.1	2487.3	2473.4
7.5°	2445.8	2462.2	2467.4	2488.1	2522.7	2553.7	2577.0	2586.5	2573.6	2553.7
10°	2352.6	2370.7	2388.8	2438.0	2499.3	2572.7	2634.9	2672.0	2669.4	2650.4
12.5°	2163.5	2182.5	2221.4	2317.2	2429.4	2558.9	2674.6	2752.3	2779.1	2765.3
15°	2012.4	2028.8	2058.2	2156.6	2302.5	2499.3	2689.3	2840.4	2908.6	2900.8
17.5°	2008.1	2015.0	2033.1	2079.8	2192.0	2406.1	2673.7	2926.7	3057.1	3056.2
20°	2084.1	2086.7	2097.0	2106.5	2170.4	2335.3	2634.0	2998.4	3223.7	3223.7
22.5°	2189.4	2187.7	2198.0	2189.4	2220.5	2329.3	2609.0	3061.4	3409.3	3423.1
25°	2347.4	2338.8	2336.2	2316.3	2322.4	2385.4	2636.6	3133.0	3629.4	3657.9
27.5°	2558.1	2544.2	2534.7	2489.0	2473.4	2501.1	2721.2	3219.4	3874.6	3923.8
30°	2832.6	2807.6	2793.7	2714.3	2658.2	2662.5	2849.0	3334.2	4131.0	4210.5
32.5°	3207.3	3168.4	3131.3	3000.9	2898.2	2864.5	3013.9	3493.0	4409.0	4535.9
35°	3626.9	3595.8	3556.1	3354.9	3196.9	3119.2	3236.6	3714.9	4734.5	4935.7
37.5°	4030.9	4004.1	4023.1	3752.0	3548.3	3435.2	3528.4	4012.8	5136.0	5432.9
40°	4448.7	4428.0	4430.6	4171.6	3934.2	3807.3	3882.4	4386.6	5596.1	6024.3
42.5°	4902.9	4887.3	4835.5	4605.9	4339.1	4220.8	4289.9	4818.3	6089.9	6697.7
45°	5411.4	5401.9	5353.5	5090.2	4784.6	4651.6	4744.9	5294.8	6586.4	7331.4
47.5°	5850.8	5858.6	5852.5	5630.6	5313.8	5118.7	5230.1	5792.1	7048.2	7927.1
50°	6062.3	6102.9	6162.5	6093.4	5896.6	5698.0	5719.6	6272.1	7488.5	8485.7
52.5°	5951.8	6028.6	6191.0	6301.5	6377.4	6336.0	6278.1	6748.7	7902.9	8989.9
55°	5540.0	5647.9	5917.3	6184.0	6571.7	6873.0	6949.0	7277.0	8307.0	9433.6
57.5°	4789.8	4965.0	5206.8	5746.3	6399.0	7132.8	7731.1	8010.0	8735.2	9907.6
60°	3503.4	3738.2	4038.7	4841.6	5794.7	6993.8	8396.8	9135.8	9343.8	10521.4
62.5°	2242.1	2387.1	2663.4	3419.7	4515.2	6281.6	8600.5	10543.0	10375.5	11528.1
65°	1535.0	1628.2	1881.2	2306.0	2918.9	4675.8	8054.9	11598.0	12014.1	13123.5
67.5°	1115.4	1186.2	1402.1	1774.1	1901.9	2767.0	6250.5	11549.7	13607.0	14767.3
70°	813.3	863.3	1044.6	1402.1	1463.3	1539.3	3786.6	9817.8	13572.4	15204.1
72.5°	602.6	637.1	758.9	1087.8	1184.5	1039.5	1874.3	7135.4	11662.7	13752.0
75°	436.0	461.9	551.7	832.3	947.9	791.7	935.0	4169.9	8135.2	9673.6
77.5°	333.2	353.1	411.8	609.5	758.9	594.0	580.2	1918.3	3857.4	3876.4
80°	267.6	280.6	312.5	429.1	581.9	444.6	378.1	774.4	1219.0	1031.7
82.5°	196.8	218.4	264.2	301.3	416.1	306.5	230.5	391.1	463.6	398.9
85°	112.2	126.9	159.7	215.8	265.9	187.3	132.1	173.5	215.8	177.0
87.5°	39.7	51.8	56.1	84.6	115.7	77.7	50.9	50.1	70.8	52.7
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°
2385.4	0°	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4	2385.4
2411.3	2.5°	2402.7	2398.3	2381.1	2357.8	2333.6	2310.3	2302.5	2286.1	2274.9	2268.8
2467.4	5°	2451.0	2437.2	2396.6	2344.8	2290.4	2231.7	2190.3	2152.3	2124.7	2098.8
2544.2	7.5°	2520.1	2495.9	2426.0	2335.3	2238.6	2141.1	2068.5	2013.3	1976.2	1952.0
2634.0	10°	2600.4	2563.2	2456.2	2320.6	2171.3	2031.4	1945.9	1898.5	1875.2	1862.2
2736.8	12.5°	2692.7	2640.1	2487.3	2287.0	2068.5	1908.8	1850.1	1836.3	1837.2	1838.0
2866.3	15°	2806.7	2733.3	2512.3	2213.6	1934.7	1814.7	1804.4	1826.8	1850.1	1861.3
3013.0	17.5°	2935.3	2831.7	2516.6	2092.7	1803.5	1754.3	1787.1	1835.4	1870.8	1886.4
3177.1	20°	3073.5	2931.9	2485.5	1921.8	1695.6	1705.1	1763.8	1825.9	1864.8	1884.7
3364.4	22.5°	3231.5	3038.9	2411.3	1742.2	1607.5	1651.6	1720.6	1781.1	1821.6	1841.5
3584.6	25°	3411.9	3158.9	2294.7	1591.1	1531.6	1591.1	1660.2	1710.3	1743.1	1761.2
3830.6	27.5°	3612.2	3284.1	2139.3	1471.1	1465.1	1529.0	1585.9	1624.8	1642.1	1655.9
4092.2	30°	3813.3	3398.1	1951.1	1380.5	1407.2	1467.7	1508.2	1525.5	1530.7	1533.3
4384.0	32.5°	4030.9	3496.5	1753.4	1305.4	1352.0	1408.1	1432.3	1440.0	1415.9	1399.5
4738.0	35°	4294.2	3601.8	1560.0	1245.8	1297.6	1345.9	1353.7	1346.8	1318.3	1284.6
5181.7	37.5°	4619.7	3733.0	1405.5	1203.5	1246.7	1278.6	1269.1	1267.4	1270.0	1230.2
5715.3	40°	5018.5	3904.0	1292.4	1170.7	1205.2	1212.1	1185.4	1200.0	1213.0	1152.5
6300.6	42.5°	5461.4	4110.3	1220.8	1148.2	1170.7	1154.3	1112.8	1129.2	1127.5	1048.1
6888.5	45°	5913.0	4334.8	1195.7	1131.8	1138.7	1105.9	1060.2	1064.5	1028.2	956.6
7452.3	47.5°	6361.9	4575.7	1211.3	1118.0	1099.0	1061.9	1026.5	1007.5	954.0	900.5
7992.7	50°	6802.2	4828.6	1268.2	1090.4	1044.6	1023.0	997.1	963.5	906.5	860.7
8503.8	52.5°	7210.5	5083.3	1332.1	1044.6	976.4	989.4	973.0	934.1	878.0	831.4
8987.3	55°	7597.3	5338.0	1357.2	981.6	912.5	960.0	950.5	878.9	811.5	773.5
9493.2	57.5°	8018.6	5644.5	1329.5	901.3	860.7	926.4	890.1	810.7	771.8	743.3
10151.9	60°	8602.2	6125.3	1270.0	802.0	811.5	876.3	814.1	781.3	739.0	707.1
11139.6	62.5°	9571.8	7022.3	1174.1	703.6	753.7	802.0	777.9	745.1	701.9	670.8
12828.2	65°	11004.9	8269.0	993.7	626.8	688.9	729.5	739.0	706.2	661.3	628.5
14308.0	67.5°	12213.6	9051.2	752.0	562.9	622.5	670.8	697.6	665.6	618.1	586.2
14654.2	70°	12147.1	8483.1	574.1	499.9	563.8	613.0	647.5	622.5	571.5	541.3
13310.8	72.5°	10789.1	7096.6	464.5	436.0	504.2	552.5	594.0	575.0	523.2	493.8
9751.3	75°	7926.2	5037.5	371.2	371.2	429.9	489.5	535.3	523.2	475.7	455.0
4093.9	77.5°	3341.1	2113.4	290.9	308.2	357.4	420.4	477.4	481.7	440.3	466.2
1082.6	80°	888.4	582.7	221.9	242.6	280.6	347.1	415.3	413.5	368.6	344.5
402.3	82.5°	338.4	229.6	158.0	170.9	202.9	265.9	328.9	339.3	294.4	254.7
158.0	85°	130.4	98.4	97.6	102.7	118.3	176.1	248.6	257.3	221.9	188.2
44.0	87.5°	33.7	29.4	36.3	34.5	54.4	94.1	142.4	147.6	135.5	78.6
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>
2385.4
2275.7
2109.1
1957.2
1865.7
1839.8
1860.5
1889.8
1889.8
1846.7
1766.4
1661.1
1539.3
1404.6
1286.4
1232.8
1154.3
1047.2
959.2
900.5
857.3
832.3
770.1
740.7
705.3
670.8
630.2
587.1
543.9
493.8
448.9
423.0
320.3
254.7
194.2
112.2
0.0

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