

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: P945970

Luminaire Tested: **GALN-SB1D-735-U-SL2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1D-735-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

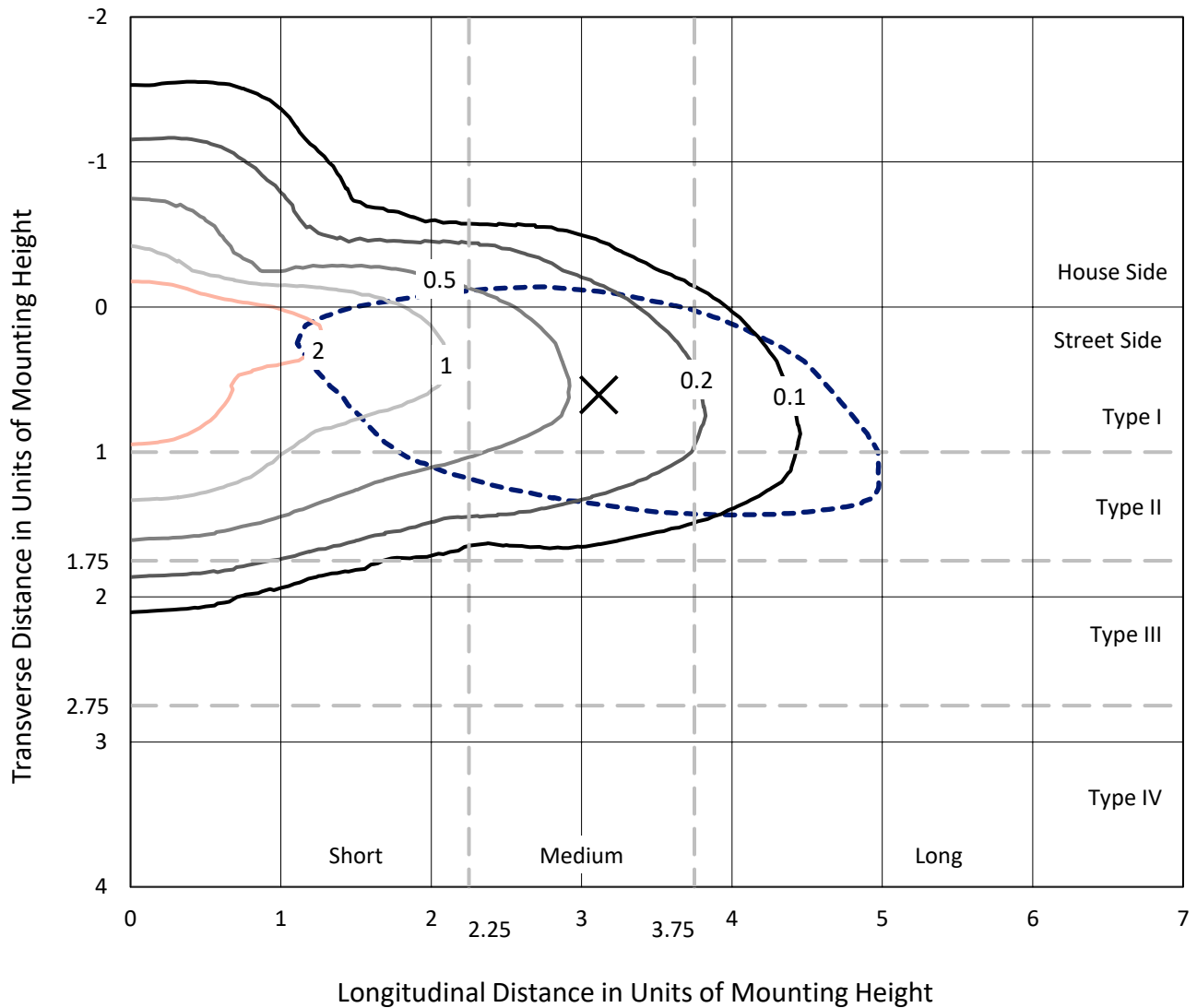
Lumens per Lamp: N/A  
Luminaire Lumens: 10118 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

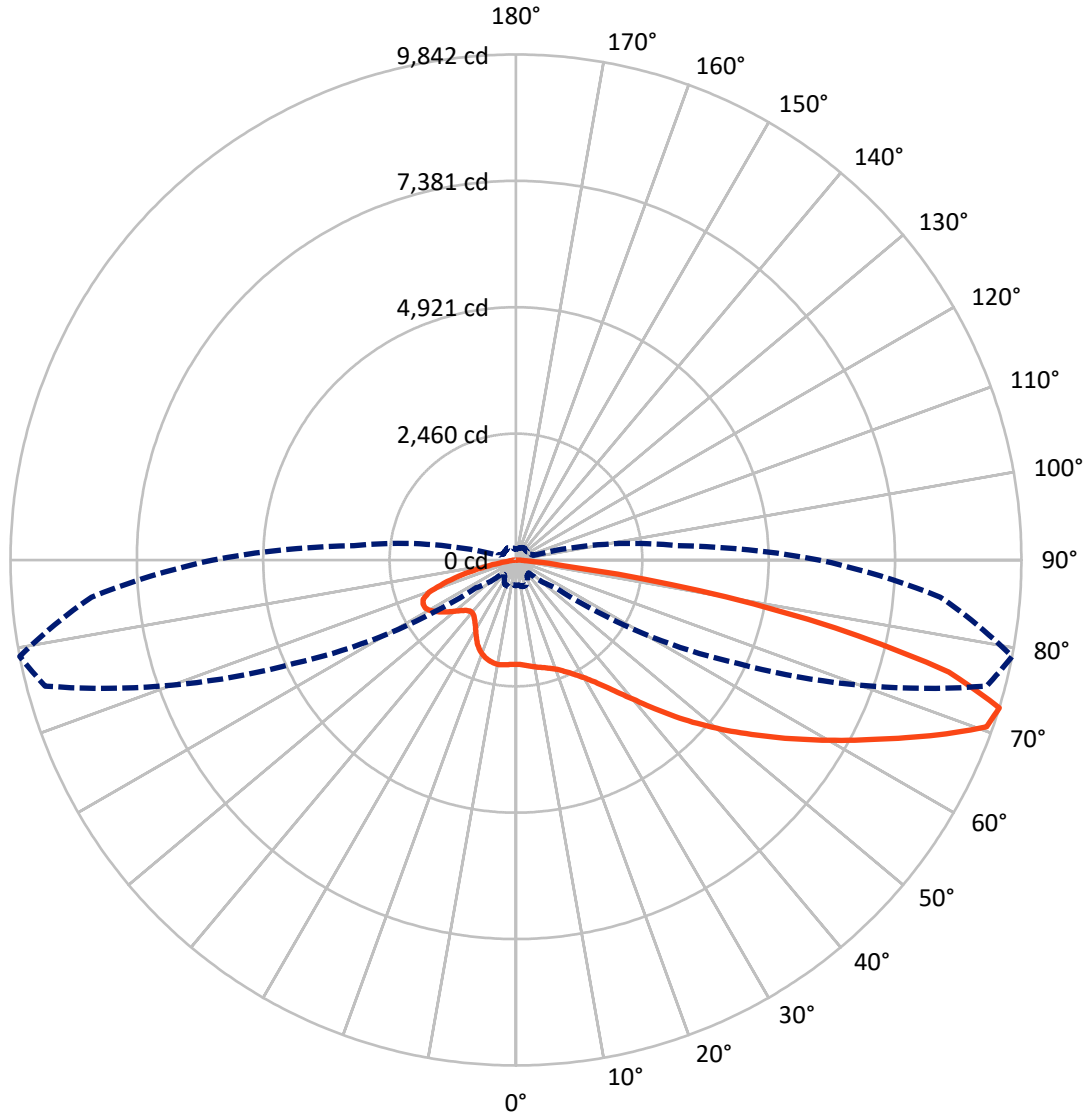
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2226.5	0.0	2226.5
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	7891.5	0.0	7891.5
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	10118.0	0.0	10118.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.4	1.8
10°-20°	482.0	4.8
20°-30°	777.8	7.7
30°-40°	1167.3	11.5
40°-50°	1655.9	16.4
50°-60°	2091.2	20.7
60°-70°	2123.9	21.0
70°-80°	1447.6	14.3
80°-90°	187.8	1.9
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°	10118.0	100.0
0°-180°	10118.0	100.0

**Coefficient of Utilization**

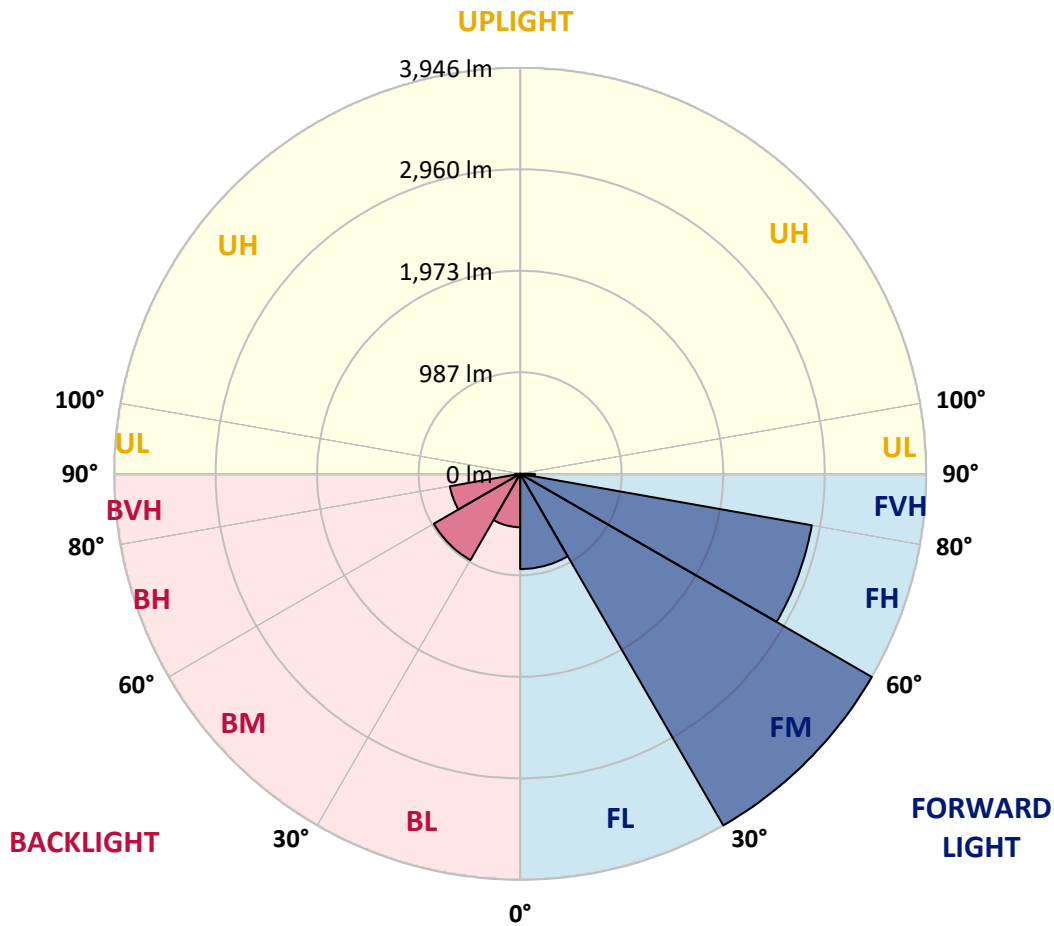


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.6	9.1			
FM (30°-60°)	3946.2	39.0			
FH (60°-80°)	2878.2	28.4			G2/5000
FVH (80°-90°)	141.5	1.4			G2/225
BL (0°-30°)	518.6	5.1	B2/1000		
BM (30°-60°)	968.3	9.6	B1/1000		
BH (60°-80°)	693.3	6.9	B2/1000		G2/1000
BVH (80°-90°)	46.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2.5°	2032.2	2022.5	2028.4	2026.3	2029.0	2032.2	2033.2	2034.8	2040.2	2039.7
5°	2027.9	2018.2	2026.3	2023.6	2030.6	2038.0	2044.5	2050.4	2058.9	2062.7
7.5°	2018.8	2012.4	2020.4	2028.4	2041.3	2052.5	2061.6	2075.0	2087.3	2089.4
10°	1965.8	1961.0	1979.7	2000.6	2035.9	2066.4	2086.2	2101.7	2115.1	2117.3
12.5°	1910.7	1904.8	1925.7	1954.0	2011.3	2066.4	2108.2	2128.5	2140.3	2147.2
15°	1901.6	1896.8	1908.5	1933.2	1980.8	2052.0	2123.1	2160.6	2170.8	2178.8
17.5°	1945.5	1936.4	1941.2	1949.7	1977.6	2038.6	2134.9	2197.0	2212.5	2221.1
20°	2047.1	2034.3	2026.8	2009.7	2004.9	2040.7	2133.9	2240.9	2261.2	2271.9
22.5°	2182.6	2174.0	2157.9	2114.6	2067.5	2067.0	2154.2	2297.1	2335.1	2345.3
25°	2346.3	2333.5	2313.1	2254.3	2163.8	2118.9	2188.4	2368.8	2432.5	2435.2
27.5°	2534.7	2515.5	2487.6	2410.0	2288.0	2200.2	2240.9	2451.2	2544.4	2543.3
30°	2733.3	2714.0	2684.6	2590.4	2436.8	2309.9	2313.7	2540.1	2677.1	2671.2
32.5°	2878.3	2863.9	2858.0	2785.2	2608.0	2439.5	2397.2	2638.5	2840.9	2835.5
35°	2989.6	2970.9	2977.9	2940.9	2794.8	2584.5	2499.4	2755.8	3039.9	3039.4
37.5°	3099.9	3083.3	3089.2	3064.6	2967.7	2768.6	2624.1	2899.2	3286.7	3298.5
40°	3200.5	3182.8	3206.4	3183.4	3102.0	2964.5	2765.9	3061.4	3572.5	3595.0
42.5°	3261.0	3247.1	3286.1	3286.7	3218.7	3129.9	2921.7	3240.1	3903.2	3953.5
45°	3281.9	3277.0	3335.9	3348.2	3322.0	3225.7	3061.9	3434.9	4259.7	4349.6
47.5°	3259.4	3250.3	3331.6	3377.1	3398.0	3270.6	3178.0	3645.8	4623.6	4755.3
50°	3145.9	3128.3	3249.2	3345.0	3419.4	3300.1	3295.2	3889.3	5037.3	5181.3
52.5°	2942.0	2928.6	3066.2	3232.6	3372.3	3314.5	3426.9	4155.3	5430.2	5616.4
55°	2681.4	2663.7	2815.2	3032.5	3255.1	3309.7	3558.6	4452.9	5893.6	6082.6
57.5°	2268.2	2232.9	2424.5	2681.4	3064.0	3303.8	3695.6	4748.8	6364.6	6591.0
60°	1665.5	1613.1	1848.1	2152.6	2690.5	3246.5	3865.2	5080.7	6929.8	7133.7
62.5°	969.8	939.3	1092.9	1377.1	2027.9	2909.4	3960.5	5466.6	7485.3	7699.4
65°	753.0	744.5	757.8	779.8	1128.7	2178.3	3666.7	5842.8	8191.8	8341.7
67.5°	688.8	682.4	688.3	647.1	572.7	1213.3	2900.8	5938.1	8948.6	9039.6
70°	612.3	604.8	624.0	588.7	450.6	551.8	1874.3	5592.3	9550.7	9721.4
72.5°	498.8	490.2	535.2	519.1	379.5	354.3	941.4	4770.8	9487.5	9841.8
75°	383.2	378.4	431.9	445.3	309.3	278.8	451.7	3546.2	8349.2	8706.1
77.5°	297.6	293.8	321.1	369.8	249.4	216.2	277.8	2249.5	6291.8	6354.5
80°	223.2	212.5	237.6	286.3	194.3	157.9	188.4	1311.8	3977.1	3605.1
82.5°	139.7	134.3	155.2	191.1	137.0	108.6	122.6	724.7	1593.8	938.7
85°	79.7	77.6	84.6	109.2	74.4	62.6	70.1	320.1	291.1	200.2
87.5°	32.1	31.0	38.5	48.7	27.3	23.0	24.6	77.1	64.2	59.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945970  
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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2031.1	0°	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1	2031.1
2039.1	2.5°	2037.0	2037.0	2029.5	2017.7	2004.3	1995.8	1981.9	1978.1	1963.7	1959.4
2057.3	5°	2061.6	2057.3	2034.3	2001.1	1955.6	1913.9	1867.9	1839.0	1798.3	1783.8
2093.2	7.5°	2092.6	2080.9	2041.3	1968.5	1873.2	1779.5	1682.1	1608.3	1537.6	1512.5
2122.6	10°	2121.0	2104.4	2037.0	1909.6	1744.8	1582.6	1427.4	1318.7	1236.3	1202.6
2155.3	12.5°	2149.4	2118.9	2008.6	1811.7	1562.3	1342.3	1176.9	1092.3	1041.5	1000.8
2182.0	15°	2176.1	2133.3	1964.7	1680.5	1362.1	1138.9	1016.9	949.4	908.8	882.0
2221.1	17.5°	2207.2	2145.6	1898.9	1514.1	1171.6	998.2	898.6	857.9	849.9	846.7
2274.6	20°	2250.5	2156.9	1812.2	1327.8	1031.3	885.8	834.4	830.6	830.1	828.5
2338.8	22.5°	2297.1	2170.2	1697.7	1158.7	912.0	815.6	806.5	799.1	794.2	793.7
2416.4	25°	2352.2	2174.5	1554.2	1020.1	810.3	782.5	771.8	760.5	757.3	757.3
2504.7	27.5°	2405.7	2160.1	1387.2	899.7	753.0	752.0	738.0	734.3	733.8	735.4
2605.4	30°	2459.3	2132.8	1221.3	788.4	719.8	719.8	715.0	717.7	719.8	725.2
2743.4	32.5°	2531.5	2103.9	1082.7	705.9	690.9	685.6	690.4	695.8	697.9	704.9
2924.9	35°	2637.5	2083.5	972.5	661.0	661.0	654.0	656.7	655.6	650.8	647.6
3144.3	37.5°	2777.7	2082.5	881.5	640.1	635.8	634.7	635.3	628.3	609.6	587.1
3409.8	40°	2946.3	2111.4	811.4	625.7	622.4	628.9	625.7	606.9	555.5	516.5
3736.2	42.5°	3172.7	2193.8	766.4	608.0	617.6	625.7	612.8	548.0	513.3	487.0
4108.2	45°	3439.2	2327.6	743.4	589.3	608.5	618.2	556.1	527.7	499.9	468.3
4513.9	47.5°	3741.1	2496.2	738.0	571.6	588.2	594.1	532.0	519.1	487.6	453.3
4921.7	50°	4069.7	2695.8	752.5	550.7	558.8	538.4	524.0	512.2	479.5	445.8
5339.7	52.5°	4409.5	2915.8	781.4	522.4	529.3	506.8	520.8	510.6	474.7	429.2
5771.6	55°	4743.5	3137.4	809.2	489.2	499.3	478.5	511.7	504.2	452.8	401.4
6232.4	57.5°	5082.8	3357.9	836.5	459.7	470.4	451.2	497.2	487.0	428.2	375.7
6735.5	60°	5435.5	3571.9	849.4	431.4	438.9	426.0	475.3	457.6	400.3	349.5
7230.0	62.5°	5765.7	3750.2	828.5	403.0	407.8	402.5	446.4	422.8	372.5	320.1
7745.4	65°	6097.0	3856.1	764.3	375.2	376.2	373.6	405.7	385.3	339.9	294.4
8196.6	67.5°	6397.3	3915.5	662.0	345.2	342.5	341.5	367.7	344.7	308.3	268.7
8539.7	70°	6461.0	3764.6	505.8	309.9	309.9	307.2	325.9	302.4	273.5	241.4
8294.0	72.5°	5901.1	3166.8	359.1	269.7	274.0	268.7	284.2	264.4	238.2	216.8
7148.2	75°	4758.5	2322.2	261.2	228.5	236.0	226.9	241.4	227.5	205.0	204.4
4926.0	77.5°	3269.6	1435.9	189.5	188.4	193.7	182.0	198.6	191.1	170.7	161.6
2144.0	80°	1395.3	572.7	138.1	145.6	145.6	134.9	154.1	156.3	138.6	134.3
413.7	82.5°	277.8	162.7	96.9	100.1	94.2	91.0	109.2	121.0	167.0	185.7
124.7	85°	83.5	59.9	58.3	54.6	48.2	48.7	64.2	121.5	149.9	85.6
41.2	87.5°	23.0	15.0	15.5	12.3	10.2	13.4	21.9	92.1	50.3	21.4
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°
2031.1
1966.3
1794.5
1515.7
1210.1
1014.2
886.8
848.8
833.8
799.6
760.5
739.6
728.9
710.7
655.1
587.7
515.4
486.0
466.2
450.6
442.1
426.0
398.7
374.6
347.9
319.5
291.1
265.5
240.3
210.3
184.1
151.5
134.3
186.3
73.9
18.2
0.0

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