

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: P949553

Luminaire Tested: **GALN-SB4B-735-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949553  
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-SB4B-735-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

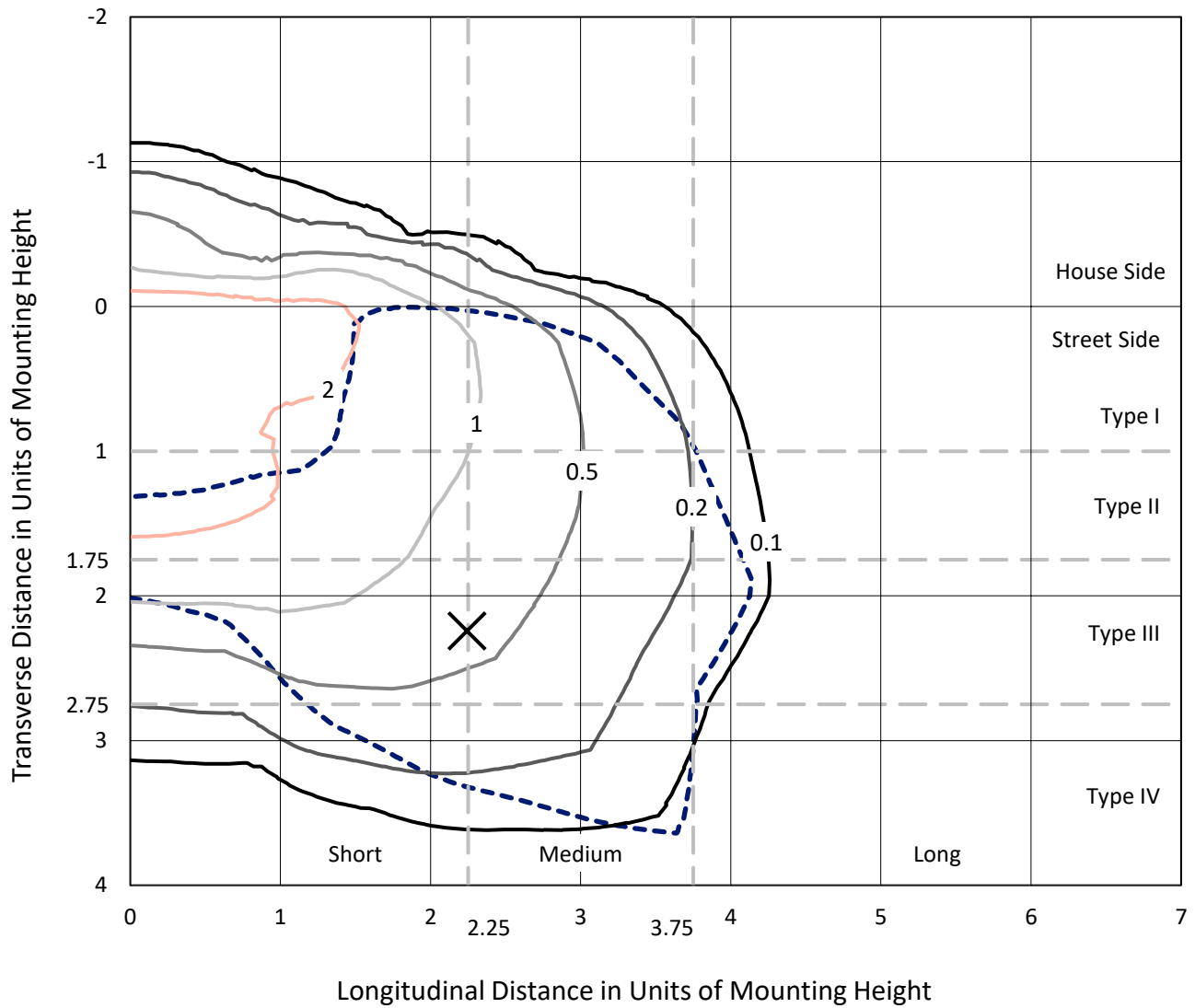
Lumens per Lamp: N/A  
Luminaire Lumens: 17384 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

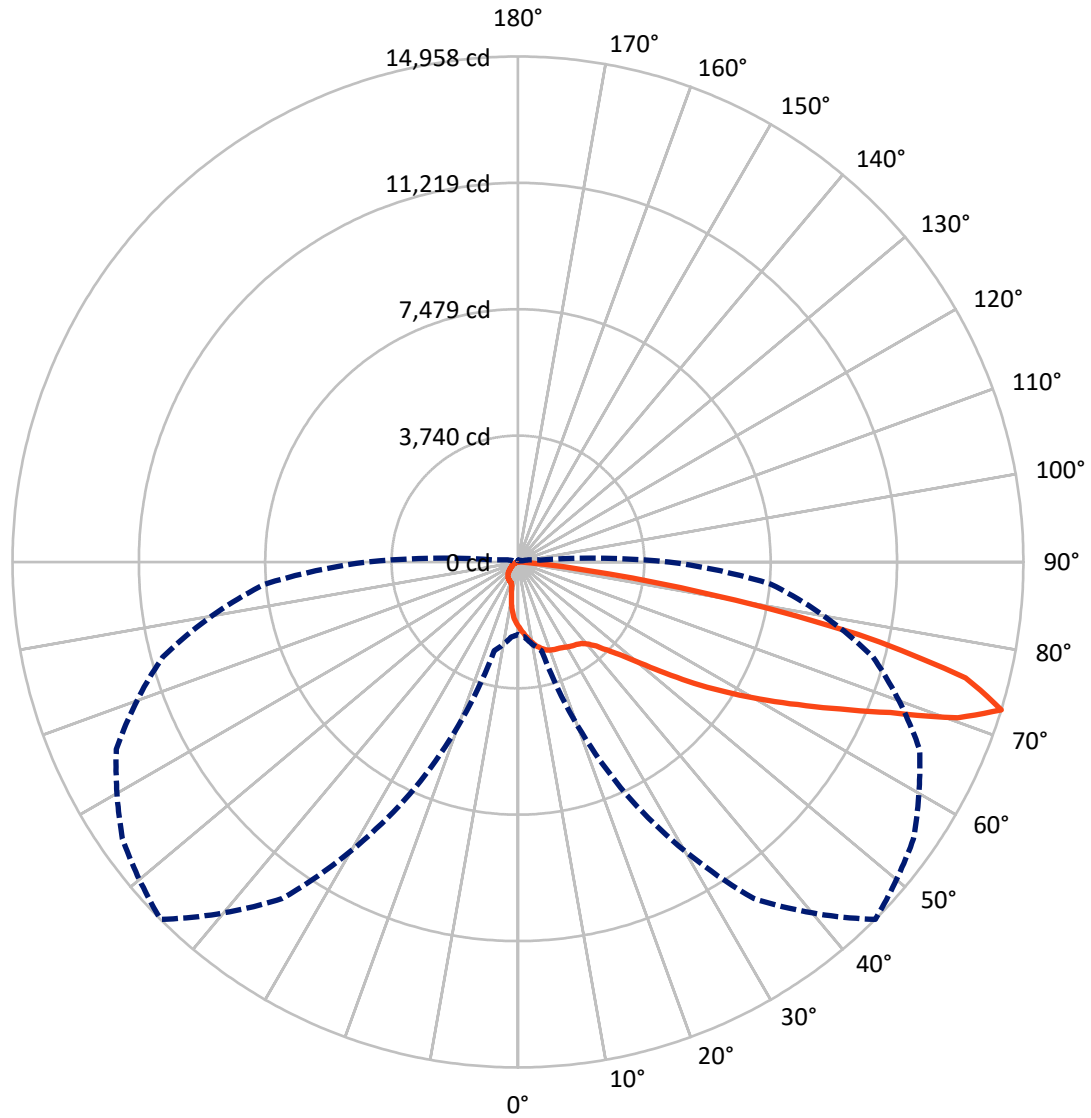
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	1826.6	0.0	1826.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	15557.4	0.0	15557.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	17384.0	0.0	17384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.4	1.0
10°-20°	524.4	3.0
20°-30°	861.2	5.0
30°-40°	1221.4	7.0
40°-50°	2018.8	11.6
50°-60°	3626.5	20.9
60°-70°	5035.6	29.0
70°-80°	3652.7	21.0
80°-90°	264.1	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°	17384.0	100.0
0°-180°	17384.0	100.0

**Coefficient of Utilization**



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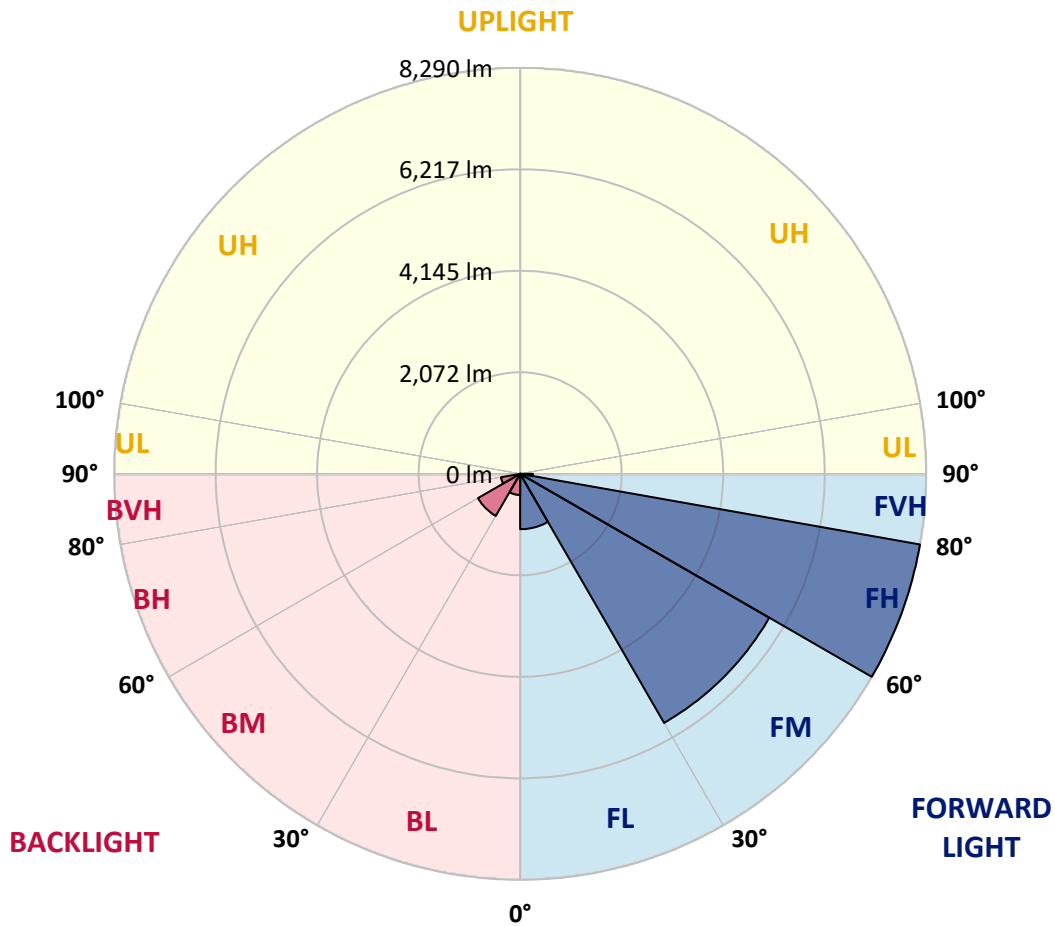
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.4	6.5			
FM (30°-60°)	5873.2	33.8			
FH (60°-80°)	8289.9	47.7			G4/12000
FVH (80°-90°)	261.8	1.5			G3/500
BL (0°-30°)	432.6	2.5	B1/500		
BM (30°-60°)	993.4	5.7	B1/1000		
BH (60°-80°)	398.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	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-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
2.5°	2080.1	2083.6	2081.3	2067.0	2043.3	2030.2	2023.1	1999.4	1984.0	1956.7
5°	2271.1	2285.3	2277.0	2248.6	2203.5	2171.4	2161.9	2113.3	2069.4	2018.4
7.5°	2474.0	2481.1	2465.7	2428.9	2368.4	2313.8	2305.5	2237.9	2167.9	2089.6
10°	2649.6	2657.9	2634.2	2580.8	2512.0	2444.3	2432.5	2357.7	2274.7	2178.6
12.5°	2796.8	2805.1	2774.2	2710.1	2634.2	2564.2	2552.3	2474.0	2382.6	2275.9
15°	2908.3	2923.7	2882.2	2813.4	2731.5	2661.5	2655.6	2578.4	2489.4	2370.8
17.5°	2973.6	2989.0	2949.8	2866.8	2796.8	2737.4	2730.3	2666.2	2583.2	2469.3
20°	2984.2	2998.5	2956.9	2884.6	2826.4	2779.0	2775.4	2729.1	2668.6	2559.4
22.5°	2952.2	2970.0	2932.0	2873.9	2833.5	2808.6	2803.9	2777.8	2743.4	2650.8
25°	2919.0	2933.2	2904.7	2853.7	2832.4	2830.0	2833.5	2828.8	2821.7	2743.4
27.5°	2916.6	2932.0	2900.0	2851.3	2839.5	2864.4	2868.0	2890.5	2896.4	2827.6
30°	2936.8	2947.5	2916.6	2865.6	2859.6	2916.6	2917.8	2958.1	2967.6	2898.8
32.5°	2980.7	2992.5	2961.7	2886.9	2878.6	2958.1	2961.7	3015.1	3030.5	2974.7
35°	3083.9	3098.1	3062.6	2946.3	2916.6	2997.3	3008.0	3070.9	3101.7	3055.4
37.5°	3341.4	3299.9	3251.2	3066.1	3003.2	3059.0	3076.8	3150.4	3204.9	3151.5
40°	3981.0	3850.4	3698.6	3270.2	3155.1	3190.7	3204.9	3278.5	3353.3	3301.1
42.5°	4940.9	4786.6	4542.2	3740.1	3384.1	3401.9	3412.6	3476.7	3582.3	3540.7
45°	5796.4	5740.7	5491.5	4542.2	3812.5	3724.7	3737.7	3770.9	3926.4	3911.0
47.5°	6453.8	6421.7	6229.5	5463.0	4536.3	4119.8	4156.6	4172.0	4396.3	4450.8
50°	6959.3	6947.4	6775.3	6281.7	5482.0	4702.4	4715.5	4682.2	5018.0	5153.3
52.5°	7436.3	7476.6	7349.7	7042.3	6491.8	5465.4	5463.0	5306.4	5759.6	5963.7
55°	7867.0	7881.2	7894.3	7818.3	7507.5	6333.9	6311.4	6055.1	6619.9	6831.1
57.5°	8271.6	8277.6	8393.8	8549.3	8564.7	7266.6	7225.1	6917.7	7559.7	7710.4
60°	8543.3	8570.6	8816.3	9248.2	9436.8	8228.9	8206.4	7893.1	8516.1	8586.1
62.5°	8151.8	8317.9	8937.3	9794.0	10260.3	9295.6	9285.0	8990.7	9522.3	9465.3
65°	6598.5	6879.8	7969.0	10163.0	11068.4	10487.0	10502.4	10189.1	10555.8	10370.7
67.5°	4615.8	4912.4	6201.0	10192.7	11971.4	11885.9	11974.9	11483.7	11653.4	11238.1
70°	3191.9	3345.0	4183.9	9554.3	12675.0	13812.9	13810.6	13073.7	12745.0	11633.2
72.5°	2146.5	2226.0	2717.3	7579.8	12157.7	14958.0	14889.2	14288.7	13112.8	10879.7
75°	905.4	963.5	1257.8	4259.8	9618.4	13684.8	13498.5	12627.5	11651.0	8567.1
77.5°	287.2	312.1	496.0	1524.7	5298.1	10286.4	10089.5	7886.0	7808.9	4297.8
80°	136.5	159.0	278.8	612.3	2084.8	5594.7	5567.4	3577.5	3359.2	1160.5
82.5°	59.3	70.0	154.3	327.5	932.6	1995.8	2036.2	1217.4	1007.4	440.2
85°	19.0	24.9	71.2	150.7	393.9	496.0	490.1	289.5	405.8	239.7
87.5°	0.0	0.0	23.7	34.4	40.3	28.5	32.0	24.9	112.7	66.4
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°
1904.5	0°	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5	1904.5
1928.2	2.5°	1913.9	1895.0	1861.7	1830.9	1803.6	1776.3	1759.7	1736.0	1733.6	1733.6
1959.0	5°	1927.0	1896.1	1836.8	1773.9	1701.5	1632.7	1563.9	1497.5	1476.1	1460.7
2008.9	7.5°	1965.0	1916.3	1822.6	1702.7	1565.1	1414.4	1308.8	1194.9	1151.0	1127.2
2075.3	10°	2019.6	1953.1	1810.7	1600.7	1377.6	1172.3	1021.6	898.2	850.8	830.6
2147.7	12.5°	2080.1	1998.2	1789.4	1473.7	1172.3	926.7	779.6	722.6	715.5	715.5
2234.3	15°	2152.4	2052.8	1752.6	1324.2	957.6	733.3	681.1	683.5	690.6	695.3
2318.6	17.5°	2227.2	2110.9	1694.4	1156.9	767.7	659.7	660.9	664.5	670.4	675.2
2409.9	20°	2307.9	2169.1	1617.3	978.9	658.5	638.4	641.9	645.5	650.2	652.6
2495.4	22.5°	2394.5	2223.6	1525.9	804.5	621.8	620.6	621.8	625.3	631.3	631.3
2595.0	25°	2487.1	2284.2	1421.5	677.5	602.8	602.8	605.2	607.5	612.3	612.3
2691.2	27.5°	2582.0	2339.9	1311.2	611.1	586.2	585.0	585.0	588.5	590.9	592.1
2786.1	30°	2686.4	2405.2	1200.8	596.8	573.1	567.2	563.6	566.0	568.4	569.6
2885.8	32.5°	2793.2	2468.1	1102.3	602.8	560.1	549.4	537.5	535.1	535.1	539.9
2989.0	35°	2911.9	2536.9	1026.4	623.0	552.9	523.3	504.3	493.6	494.8	501.9
3112.4	37.5°	3054.2	2620.0	970.6	640.8	548.2	493.6	462.8	449.7	441.4	449.7
3282.1	40°	3240.5	2742.2	930.3	655.0	542.3	459.2	417.7	396.3	380.9	385.6
3545.5	42.5°	3514.6	2934.4	914.8	656.2	529.2	418.9	371.4	342.9	320.4	321.6
3941.8	45°	3899.1	3238.2	994.4	640.8	500.7	375.0	322.7	284.8	270.5	267.0
4533.9	47.5°	4425.9	3680.8	1178.3	608.7	459.2	332.2	275.3	243.2	232.6	226.6
5311.1	50°	5131.9	4249.1	1382.4	573.1	417.7	291.9	236.1	216.0	208.8	202.9
6233.1	52.5°	5950.7	4825.8	1549.7	537.5	376.1	256.3	211.2	199.3	193.4	188.7
7123.0	55°	6701.8	5223.3	1540.2	499.5	335.8	227.8	193.4	186.3	179.2	174.4
7889.5	57.5°	7169.3	5279.1	1269.6	458.0	289.5	205.3	176.8	172.1	163.7	157.8
8552.8	60°	7384.1	4961.1	889.9	403.4	243.2	183.9	159.0	156.6	145.9	137.6
9180.5	62.5°	7423.2	4370.2	593.3	335.8	202.9	163.7	141.2	137.6	123.4	109.2
9690.8	65°	7264.2	3525.3	410.6	262.2	173.2	142.4	121.0	113.9	98.5	84.2
9811.8	67.5°	6761.1	2475.2	286.0	188.7	147.1	112.7	96.1	93.7	81.9	70.0
9194.8	70°	5839.1	1410.8	191.0	141.2	116.3	77.1	75.9	78.3	66.4	57.0
7512.2	72.5°	4477.0	645.5	118.7	103.2	79.5	52.2	60.5	61.7	51.0	42.7
4687.0	75°	2635.4	276.5	74.8	66.4	40.3	34.4	43.9	45.1	34.4	27.3
1713.4	77.5°	897.1	104.4	47.5	39.2	20.2	19.0	28.5	28.5	19.0	10.7
344.1	80°	204.1	39.2	23.7	15.4	9.5	8.3	9.5	8.3	4.7	1.2
105.6	82.5°	58.1	15.4	9.5	5.9	3.6	3.6	1.2	0.0	0.0	0.0
36.8	85°	16.6	7.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
13.1	87.5°	7.1	1.2	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

<u>180°</u>
1904.5
1739.5
1467.8
1130.8
830.6
715.5
695.3
675.2
653.8
633.6
613.5
593.3
571.9
543.5
505.5
447.3
383.3
316.8
262.2
223.1
201.7
187.5
172.1
156.6
135.3
102.0
79.5
66.4
52.2
38.0
23.7
8.3
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