

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: P939944

Luminaire Tested: **GALN-SB2D-740-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939944  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

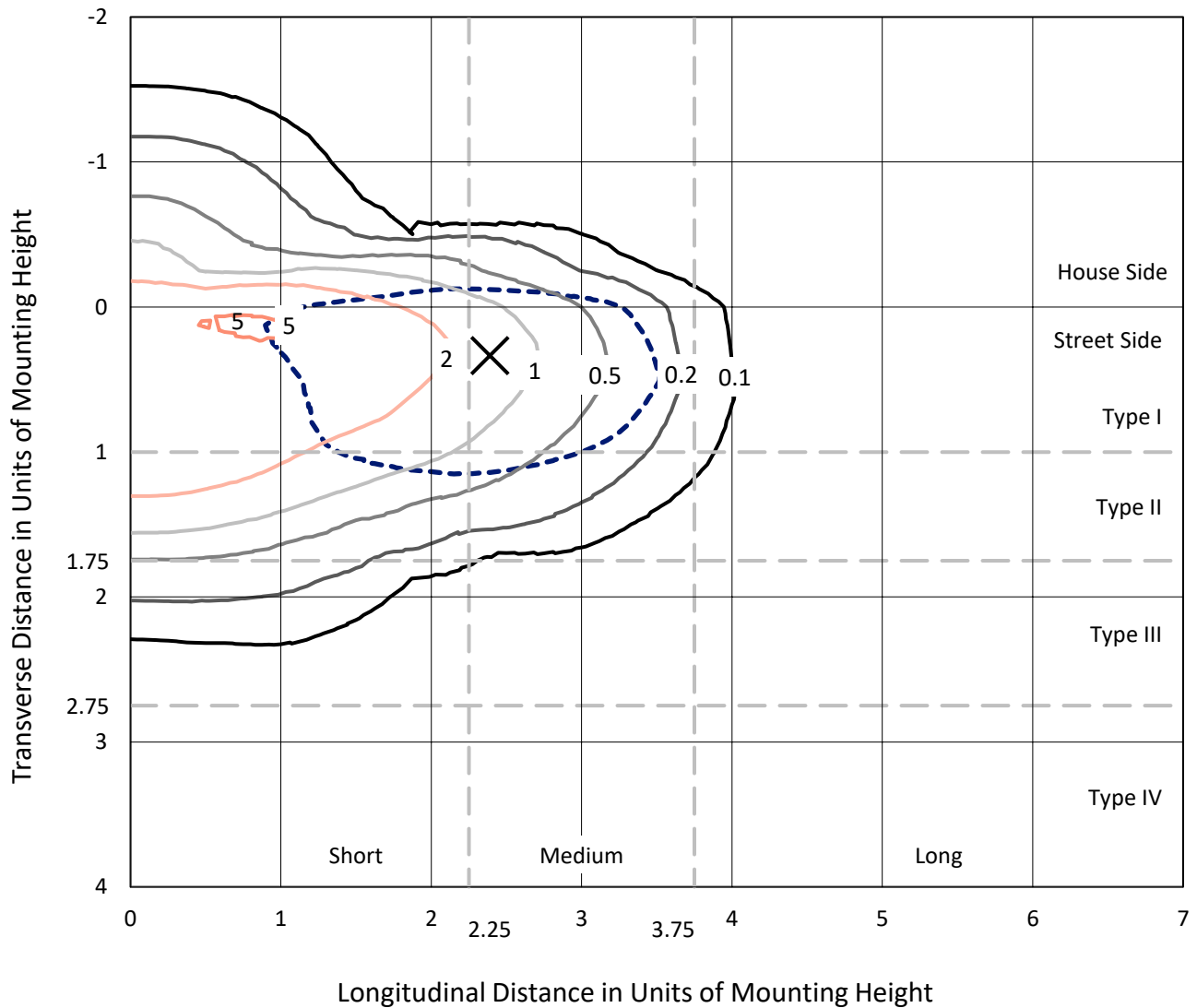
Lumens per Lamp: N/A  
Luminaire Lumens: 15722 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

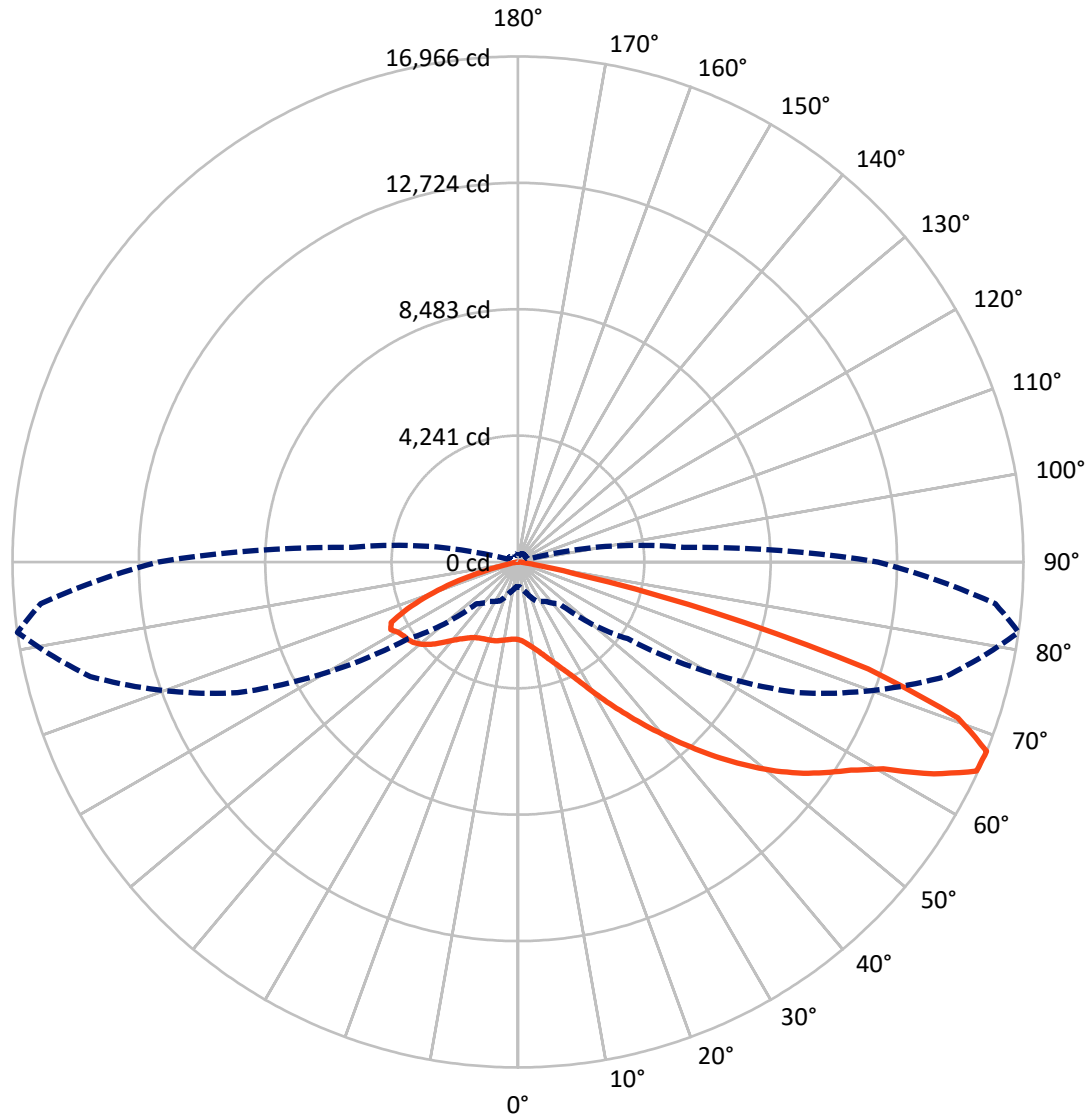
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2847.9	0.0	2847.9
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	12874.1	0.0	12874.1
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	15722.0	0.0	15722.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.1	1.5
10°-20°	603.0	3.8
20°-30°	965.8	6.1
30°-40°	1707.9	10.9
40°-50°	2992.4	19.0
50°-60°	3991.0	25.4
60°-70°	3715.4	23.6
70°-80°	1426.0	9.1
80°-90°	88.6	0.6
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°	15722.0	100.0
0°-180°	15722.0	100.0



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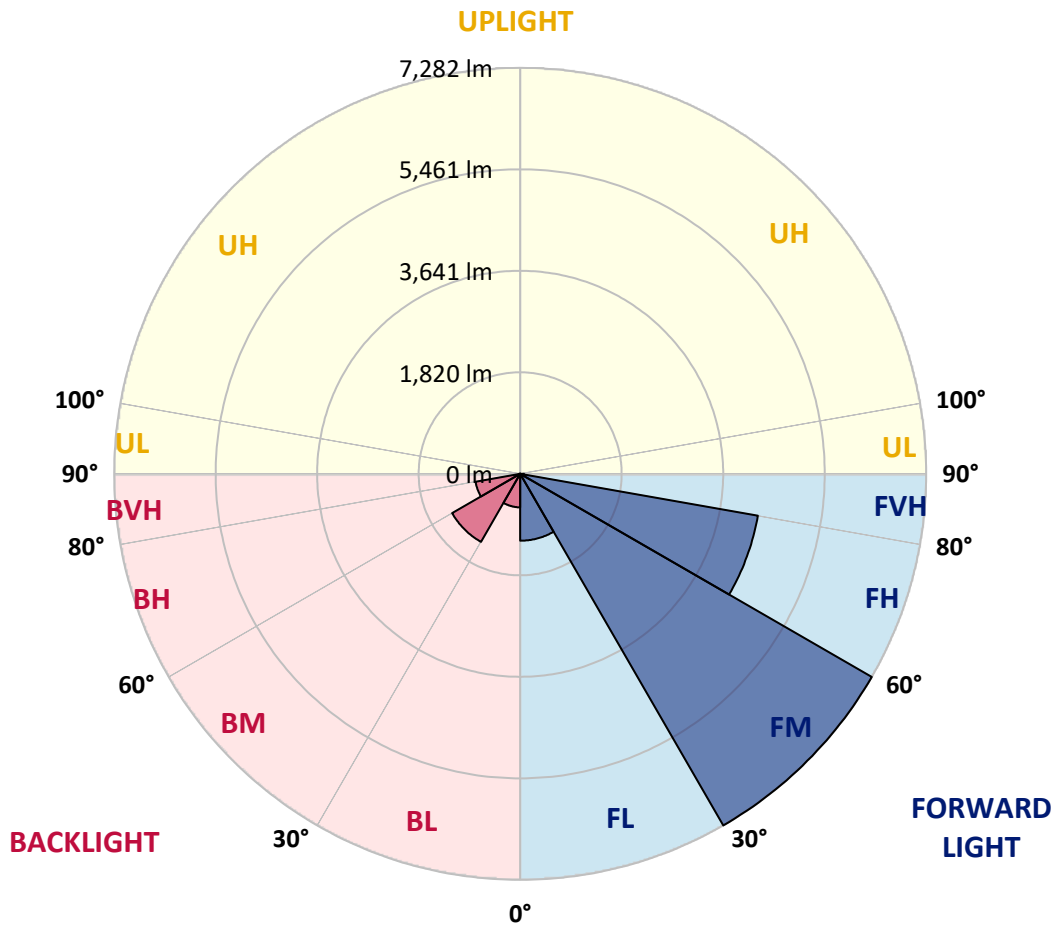
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.4	7.6			
FM (30°-60°)	7281.8	46.3			
FH (60°-80°)	4328.5	27.5			G2/5000
FVH (80°-90°)	64.4	0.4			G1/100
BL (0°-30°)	601.5	3.8	B2/1000		
BM (30°-60°)	1409.4	9.0	B2/2500		
BH (60°-80°)	812.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.2	0.2			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°	82°
0°	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6
2.5°	2752.9	2768.7	2759.7	2755.2	2747.2	2735.9	2726.9	2698.6	2669.1	2649.9
5°	2808.4	2824.2	2823.1	2827.6	2833.3	2836.7	2834.4	2802.7	2760.8	2728.0
7.5°	2760.8	2778.9	2793.6	2816.3	2855.9	2897.8	2918.2	2911.4	2868.3	2823.1
10°	2626.1	2645.4	2680.4	2733.6	2817.4	2908.0	2983.8	3018.9	2991.7	2941.9
12.5°	2379.3	2398.6	2467.6	2583.1	2723.5	2880.8	3025.7	3119.6	3126.4	3076.6
15°	2102.0	2121.3	2194.8	2339.7	2553.7	2806.1	3048.3	3226.0	3286.0	3243.0
17.5°	1930.0	1946.9	2002.4	2119.0	2342.0	2656.7	3040.4	3339.2	3476.2	3442.2
20°	1877.9	1892.6	1918.6	2000.1	2185.8	2501.6	2988.3	3445.6	3681.1	3661.8
22.5°	1933.4	1946.9	1954.9	1991.1	2107.7	2399.7	2922.7	3554.3	3918.8	3921.1
25°	2061.3	2074.9	2065.8	2088.4	2139.4	2368.0	2897.8	3682.2	4217.6	4242.5
27.5°	2271.8	2272.9	2251.4	2250.3	2258.2	2415.6	2923.8	3819.2	4594.6	4641.0
30°	2694.0	2677.0	2594.4	2505.0	2464.2	2558.2	2996.3	3981.0	5039.4	5122.0
32.5°	3344.9	3320.0	3168.3	2954.4	2739.3	2788.0	3126.4	4165.6	5523.9	5673.3
35°	4051.2	4044.4	3886.0	3567.9	3192.1	3115.1	3338.1	4407.8	6052.5	6290.2
37.5°	4707.8	4704.4	4613.8	4239.1	3781.8	3571.3	3677.7	4724.7	6618.5	6962.6
40°	5307.7	5317.9	5227.3	4892.3	4431.6	4156.5	4139.5	5116.4	7247.8	7695.0
42.5°	5826.1	5837.4	5745.7	5497.9	5073.4	4804.0	4706.6	5596.3	7862.5	8481.7
45°	6178.2	6248.3	6234.7	6036.7	5732.2	5452.6	5388.1	6198.5	8563.2	9315.9
47.5°	6277.8	6342.3	6444.2	6471.3	6285.7	6010.6	6087.6	6924.1	9271.8	10151.3
50°	6032.1	6092.1	6303.8	6585.7	6714.7	6629.8	6767.9	7701.7	9997.3	10984.4
52.5°	5547.7	5608.8	5875.9	6321.9	6848.3	7115.4	7450.5	8468.1	10700.3	11773.4
55°	4847.0	4911.5	5254.5	5759.3	6593.6	7315.8	8019.8	9233.3	11344.3	12483.1
57.5°	3893.9	3941.4	4298.0	5004.3	5952.9	7116.5	8439.8	10068.6	11951.1	13180.4
60°	2537.8	2579.7	2994.0	3781.8	4891.1	6450.9	8523.5	11000.2	12757.0	14087.0
62.5°	1687.7	1716.0	1961.7	2540.1	3444.5	5173.0	8033.4	11743.9	13938.8	15665.0
65°	1158.0	1186.3	1431.9	1834.9	2225.4	3421.9	6624.1	11645.4	15009.6	16918.0
67.5°	826.3	850.1	1058.4	1438.7	1610.8	1987.7	4490.4	10386.7	14855.6	16965.6
70°	592.0	605.6	777.6	1120.6	1280.2	1194.2	2497.1	7944.0	13007.2	15666.1
72.5°	414.3	418.8	539.9	853.5	1031.2	871.6	1188.5	5296.4	9837.7	12296.3
75°	280.7	286.4	363.4	626.0	827.5	665.6	629.4	2840.0	5775.2	6806.4
77.5°	172.1	174.3	234.3	427.9	619.2	507.1	405.2	1203.3	2234.5	2193.7
80°	97.3	97.3	149.4	266.0	422.2	327.1	284.1	511.6	707.5	621.4
82.5°	54.3	55.5	108.7	165.3	279.6	193.6	156.2	236.6	305.6	270.5
85°	22.6	24.9	66.8	78.1	133.6	96.2	63.4	99.6	113.2	100.7
87.5°	2.3	3.4	20.4	14.7	15.8	19.2	9.1	19.2	15.8	15.8
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°
2604.6	0°	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6	2604.6
2643.1	2.5°	2621.6	2604.6	2561.6	2511.8	2446.1	2414.4	2371.4	2342.0	2317.1	2319.4
2708.7	5°	2672.5	2629.5	2533.3	2413.3	2263.9	2157.5	2044.3	1966.2	1902.8	1889.2
2799.3	7.5°	2742.7	2674.8	2506.1	2289.9	2037.5	1846.2	1675.3	1565.5	1487.4	1462.5
2909.1	10°	2833.3	2734.8	2471.0	2134.8	1771.5	1528.1	1344.7	1258.7	1205.5	1187.4
3038.1	12.5°	2938.5	2803.8	2424.6	1945.8	1497.6	1263.2	1146.7	1103.6	1086.7	1081.0
3196.6	15°	3071.0	2889.9	2354.4	1721.7	1265.5	1101.4	1051.6	1045.9	1048.2	1045.9
3386.8	17.5°	3228.3	2983.8	2240.1	1490.8	1109.3	1018.7	1000.6	1005.2	1010.8	1009.7
3599.6	20°	3400.4	3076.6	2094.1	1285.9	1002.9	959.9	949.7	954.2	958.8	956.5
3845.2	22.5°	3596.2	3176.2	1932.2	1126.3	931.6	905.6	894.2	895.4	895.4	890.8
4156.5	25°	3830.5	3286.0	1762.4	1013.1	877.3	856.9	843.3	838.8	832.0	818.4
4534.6	27.5°	4110.1	3402.6	1599.4	933.9	834.2	815.0	799.2	787.8	770.9	748.2
4988.5	30°	4424.8	3544.1	1461.3	884.0	800.3	781.0	762.9	746.0	721.0	692.7
5510.3	32.5°	4794.9	3695.8	1360.6	851.2	769.7	749.3	727.8	707.5	680.3	652.0
6096.7	35°	5236.4	3879.2	1301.7	828.6	746.0	718.8	695.0	672.4	652.0	627.1
6733.9	37.5°	5715.2	4073.9	1283.6	817.3	730.1	688.2	661.1	645.2	642.9	628.2
7423.3	40°	6239.3	4304.8	1297.2	810.5	713.1	658.8	629.4	626.0	631.6	605.6
8160.2	42.5°	6793.9	4578.7	1319.8	802.5	689.4	629.4	601.1	601.1	596.5	560.3
8939.0	45°	7393.9	4894.5	1342.5	783.3	661.1	599.9	578.4	570.5	551.3	516.2
9722.3	47.5°	7998.3	5216.0	1359.5	748.2	627.1	575.0	555.8	537.7	509.4	477.7
10490.9	50°	8572.2	5504.6	1341.4	696.1	588.6	551.3	530.9	506.0	475.4	453.9
11218.7	52.5°	9085.0	5754.8	1264.4	635.0	547.9	526.4	508.2	482.2	457.3	434.7
11875.2	55°	9531.0	5957.4	1128.5	577.3	511.6	504.8	486.7	453.9	420.0	400.7
12526.1	57.5°	9958.8	6111.4	958.8	529.7	478.8	481.1	453.9	424.5	392.8	372.4
13403.3	60°	10528.2	6317.4	786.7	485.6	443.7	450.5	421.1	399.6	360.0	333.9
14907.7	62.5°	11438.3	6637.7	624.8	431.3	403.0	405.2	392.8	366.7	319.2	288.6
16022.7	65°	12160.5	6520.0	492.4	372.4	356.6	360.0	360.0	331.7	280.7	245.6
16082.7	67.5°	12079.0	5582.7	392.8	314.7	312.4	314.7	322.6	298.8	249.0	220.7
14857.9	70°	11127.0	4440.6	314.7	261.5	271.7	266.0	288.6	272.8	224.1	195.8
11518.7	72.5°	9079.3	3198.9	240.0	216.2	208.3	217.3	260.3	245.6	186.8	155.1
6101.2	75°	5305.4	1707.0	178.8	170.9	150.5	181.1	230.9	209.4	142.6	114.3
1870.0	77.5°	1727.3	595.4	131.3	125.6	112.1	146.0	197.0	176.6	116.6	90.6
547.9	80°	463.0	180.0	89.4	82.6	72.4	108.7	156.2	140.4	83.8	58.9
235.4	82.5°	185.6	75.8	52.1	46.4	39.6	74.7	123.4	113.2	62.3	37.4
73.6	85°	60.0	24.9	19.2	14.7	18.1	46.4	73.6	77.0	44.1	19.2
11.3	87.5°	7.9	3.4	3.4	4.5	3.4	7.9	22.6	21.5	12.5	2.3
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>
2604.6
2296.7
1858.7
1437.6
1173.8
1077.6
1044.8
1007.4
955.4
888.6
816.1
746.0
690.5
653.1
624.8
627.1
606.7
560.3
515.0
476.5
450.5
432.4
398.4
370.1
330.5
286.4
242.2
216.2
192.4
151.7
110.9
87.2
57.7
37.4
14.7
0.0
0.0

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