

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: P948939

Luminaire Tested: **GALN-SB3D-830-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-830-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27943 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

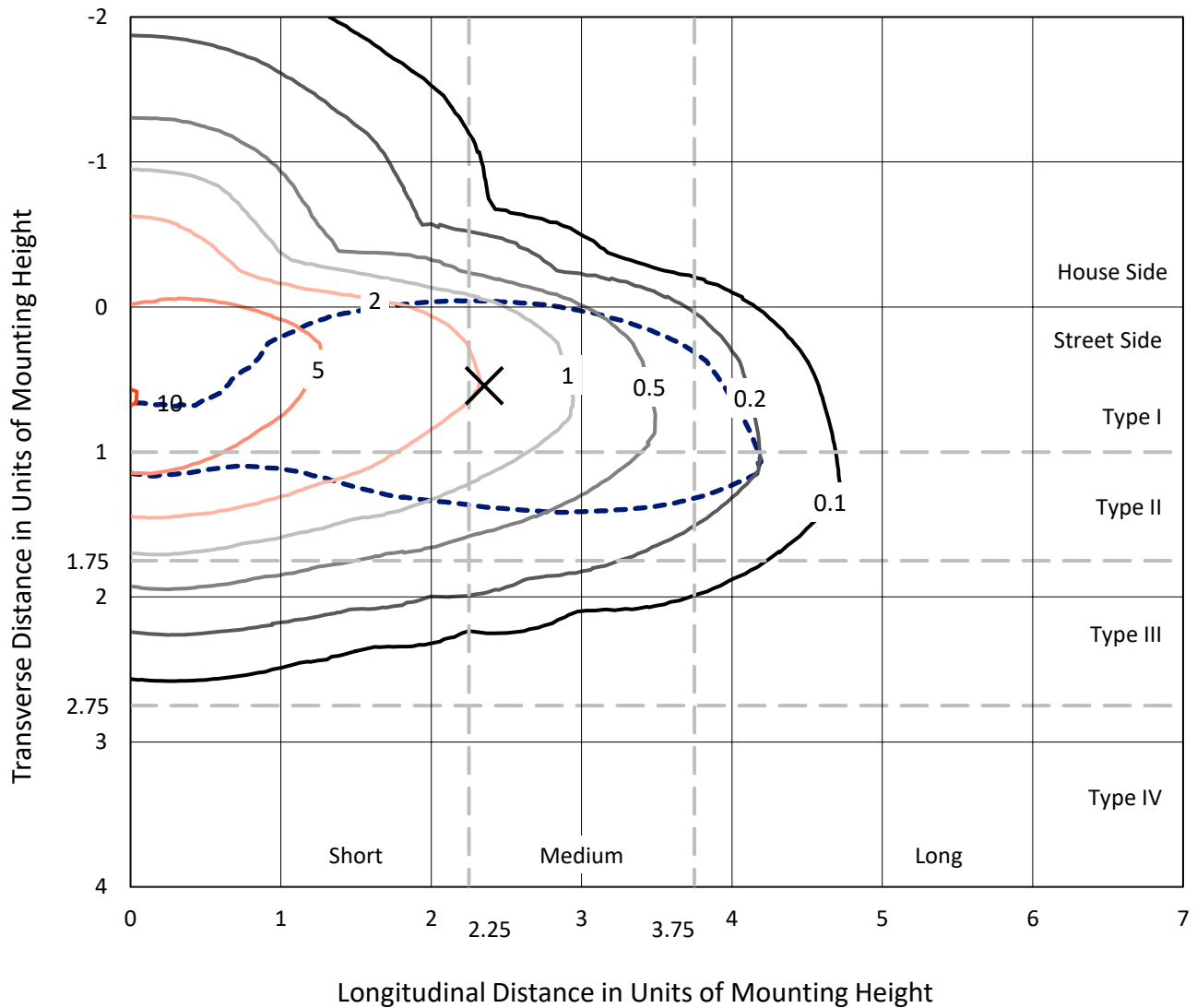
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

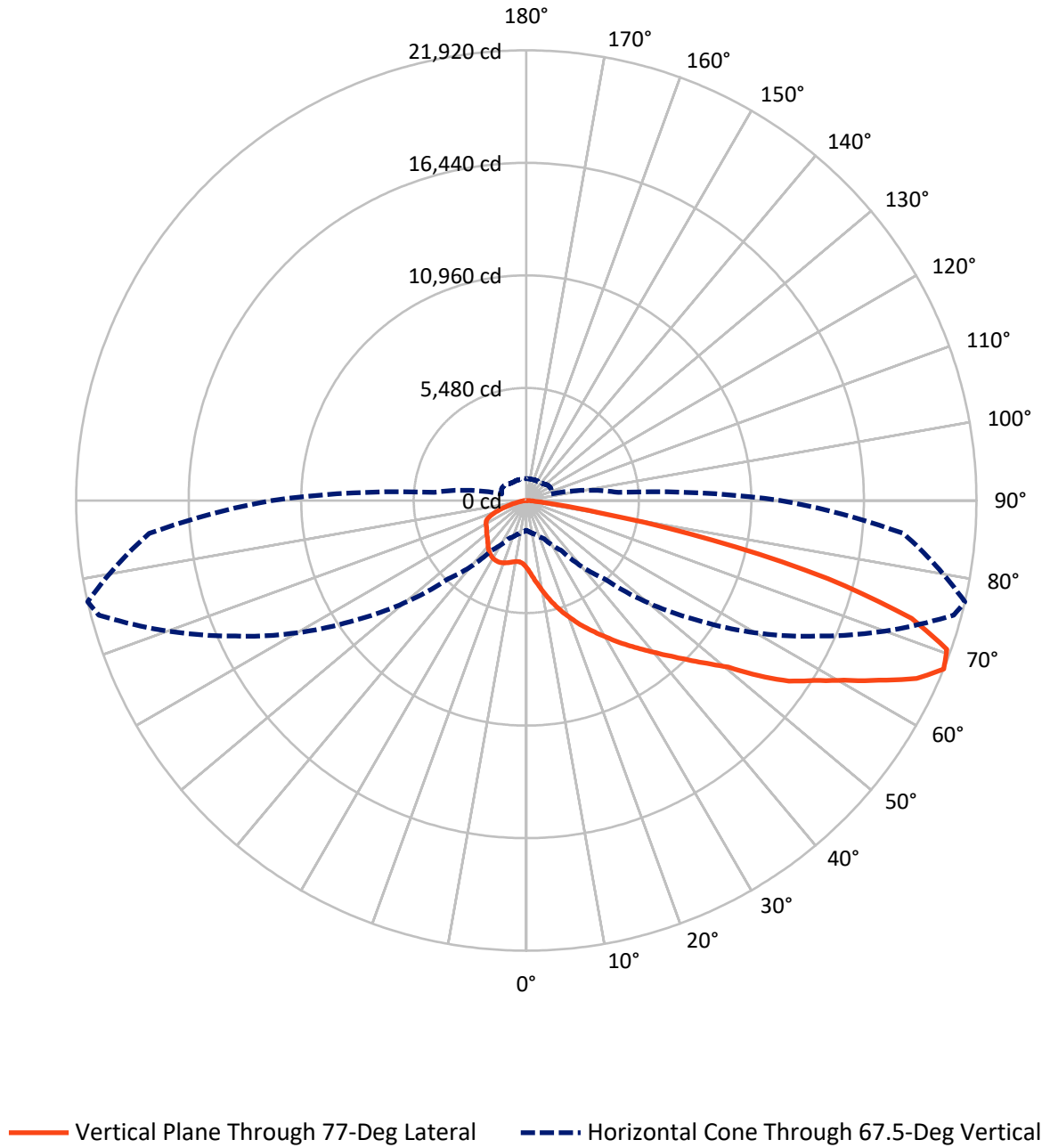
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5285.7	0.0	5285.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	22657.3	0.0	22657.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	27943.0	0.0	27943.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.4	1.3
10°-20°	1262.5	4.5
20°-30°	2383.7	8.5
30°-40°	3840.2	13.7
40°-50°	5252.7	18.8
50°-60°	5925.0	21.2
60°-70°	5530.3	19.8
70°-80°	3031.5	10.8
80°-90°	365.7	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°	27943.0	100.0
0°-180°	27943.0	100.0



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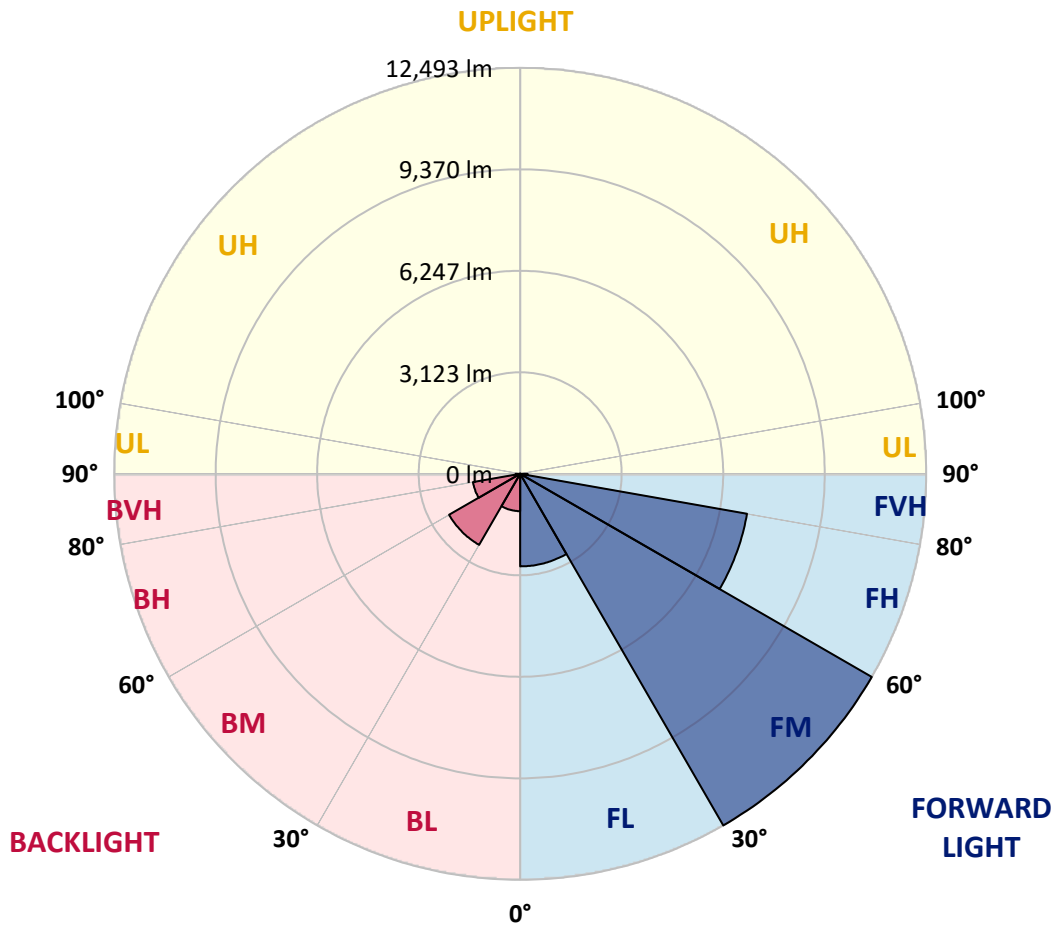
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2848.4	10.2			
FM (30°-60°)	12493.0	44.7			
FH (60°-80°)	7087.2	25.4			G3/7500
FVH (80°-90°)	228.7	0.8			G3/500
BL (0°-30°)	1149.2	4.1	B3/2500		
BM (30°-60°)	2524.8	9.0	B3/5000		
BH (60°-80°)	1474.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	137.0	0.5			G2/225
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°	77°
0°	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6
2.5°	4105.1	4133.9	4097.9	4097.9	3976.7	3913.2	3792.1	3699.8	3533.9	3505.0
5°	4852.2	4888.3	4837.8	4816.2	4673.4	4542.1	4338.7	4138.3	3842.6	3812.3
7.5°	5430.6	5476.8	5432.1	5409.0	5282.1	5135.0	4897.0	4617.1	4200.3	4141.1
10°	5902.3	5909.5	5895.1	5903.8	5804.2	5683.1	5439.3	5113.3	4592.6	4511.8
12.5°	6169.2	6202.3	6231.2	6283.1	6265.8	6190.8	5971.5	5582.1	5008.0	4904.2
15°	6294.6	6352.3	6417.3	6537.0	6633.6	6652.4	6485.0	6085.5	5430.6	5305.2
17.5°	6339.4	6394.2	6496.6	6669.7	6877.4	7017.3	6942.3	6574.5	5848.9	5704.7
20°	6565.8	6581.7	6643.7	6808.1	7033.2	7265.4	7321.6	7044.7	6262.9	6099.9
22.5°	7050.5	7018.7	7036.0	7111.0	7272.6	7497.6	7626.0	7460.1	6688.4	6500.9
25°	7851.0	7758.7	7666.4	7579.8	7662.0	7789.0	7934.7	7875.5	7134.1	6896.1
27.5°	8862.1	8749.6	8546.2	8262.1	8162.6	8207.3	8272.2	8260.6	7546.7	7305.8
30°	9857.4	9726.1	9483.8	9072.7	8810.2	8691.9	8642.9	8609.7	7995.2	7738.5
32.5°	10652.1	10548.3	10310.3	9850.2	9469.4	9267.4	9104.4	8986.2	8464.0	8207.3
35°	11347.4	11250.7	10978.1	10476.2	10062.2	9847.3	9633.8	9381.4	8951.6	8691.9
37.5°	11982.0	11885.4	11511.8	10989.7	10572.8	10424.2	10233.8	9805.5	9440.5	9195.3
40°	12383.0	12361.4	12012.3	11420.9	10988.2	10914.7	10851.2	10297.3	9982.9	9755.0
42.5°	12485.4	12533.0	12256.1	11770.0	11357.5	11298.3	11446.9	10854.1	10591.6	10373.8
45°	12238.8	12375.8	12194.1	11863.8	11620.0	11588.3	11974.8	11462.8	11265.2	11066.1
47.5°	11614.2	11846.5	11771.5	11725.3	11690.7	11827.7	12439.3	12109.0	12028.2	11855.1
50°	10353.6	10793.5	10924.8	11216.1	11550.8	12013.8	12861.9	12814.3	12919.6	12745.1
52.5°	8174.1	8779.9	9541.5	10271.4	11120.9	11951.8	13326.4	13826.9	14271.1	14175.9
55°	6747.6	7020.2	7605.8	8944.3	10287.2	11690.7	13535.5	14644.7	15612.6	15527.5
57.5°	5651.3	5895.1	6255.7	7373.6	9026.6	11097.8	13665.3	15143.8	16531.4	16522.7
60°	4475.8	4734.0	5103.2	5895.1	7553.9	10073.7	13636.5	15712.1	17704.1	17776.2
62.5°	3148.8	3432.9	3842.6	4581.1	6049.4	8746.7	13048.0	16123.2	19084.4	19280.6
65°	2069.8	2257.4	2566.0	3203.6	4507.5	7040.4	11924.3	16176.5	20561.5	20893.2
67.5°	1451.1	1523.2	1704.9	2051.1	2971.4	5398.9	10134.3	15624.1	21546.6	21920.2
70°	1132.3	1168.3	1260.7	1399.1	1866.5	3630.5	7765.9	14187.5	21336.0	21725.5
72.5°	977.9	1012.6	1047.2	1064.5	1252.0	2241.5	5260.4	11862.3	19352.7	19616.7
75°	887.1	895.7	924.6	918.8	954.9	1453.9	3036.3	8642.9	15269.3	15178.4
77.5°	745.7	757.3	804.9	797.6	848.1	993.8	1576.5	5577.8	9899.2	9281.9
80°	631.8	637.5	689.5	680.8	737.1	719.8	804.9	2843.0	4198.8	3557.0
82.5°	219.2	271.2	526.5	542.3	562.5	435.6	464.5	1159.7	1282.3	982.3
85°	106.7	113.9	268.3	380.8	379.4	219.2	226.5	414.0	403.9	317.3
87.5°	17.3	21.6	31.7	148.6	118.3	57.7	77.9	80.8	83.7	72.1
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°
3278.6	0°	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6	3278.6
3395.4	2.5°	3314.6	3242.5	3091.1	2951.2	2841.5	2736.2	2677.1	2626.6	2597.8	2592.0
3554.1	5°	3404.1	3255.5	2980.0	2747.8	2596.3	2483.8	2424.7	2387.2	2368.4	2356.9
3767.6	7.5°	3532.4	3314.6	2922.3	2658.3	2499.7	2418.9	2388.6	2382.8	2381.4	2382.8
4025.7	10°	3709.9	3411.3	2916.5	2636.7	2504.0	2459.3	2457.9	2459.3	2465.1	2466.5
4307.0	12.5°	3901.7	3510.8	2939.6	2655.5	2558.8	2534.3	2530.0	2528.5	2532.9	2535.7
4591.2	15°	4110.8	3642.1	2978.6	2695.9	2619.4	2593.4	2589.1	2580.5	2579.0	2577.6
4889.7	17.5°	4325.8	3771.9	3021.8	2739.1	2658.3	2622.3	2606.4	2586.2	2570.4	2566.0
5198.4	20°	4543.6	3900.3	3052.1	2760.8	2661.2	2610.7	2579.0	2544.4	2517.0	2501.1
5510.0	22.5°	4775.8	4034.4	3070.9	2755.0	2635.3	2566.0	2508.3	2468.0	2426.1	2398.7
5824.4	25°	5002.3	4151.2	3069.4	2724.7	2584.8	2496.8	2423.2	2371.3	2313.6	2284.8
6149.0	27.5°	5220.1	4256.5	3033.4	2671.3	2512.7	2414.6	2326.6	2264.6	2208.3	2180.9
6476.4	30°	5445.1	4344.5	2977.1	2593.4	2427.6	2319.4	2222.7	2169.4	2118.9	2092.9
6822.6	32.5°	5668.6	4425.3	2897.8	2496.8	2329.5	2225.6	2130.4	2081.4	2051.1	2051.1
7194.7	35°	5905.2	4481.5	2792.5	2384.3	2225.6	2126.1	2051.1	2022.2	2019.4	2002.1
7588.5	37.5°	6154.7	4517.6	2664.1	2268.9	2123.2	2029.5	2006.4	1971.8	1942.9	1905.4
8021.2	40°	6417.3	4553.7	2509.8	2149.2	2015.0	1963.1	1953.0	1906.9	1824.6	1732.3
8511.6	42.5°	6736.0	4578.2	2349.7	2029.5	1901.1	1883.8	1898.2	1818.9	1687.6	1618.4
9103.0	45°	7105.3	4618.6	2202.5	1911.2	1784.3	1784.3	1844.8	1741.0	1632.8	1589.5
9778.0	47.5°	7584.2	4712.3	2065.5	1781.4	1676.1	1704.9	1726.6	1647.2	1586.6	1533.3
10600.2	50°	8276.5	4937.3	1924.2	1650.1	1593.9	1651.6	1621.3	1575.1	1504.4	1461.2
11907.0	52.5°	9136.2	5070.0	1798.7	1531.8	1523.2	1580.9	1537.6	1494.3	1441.0	1383.3
12898.0	55°	9721.8	5094.6	1693.4	1445.3	1475.6	1469.8	1453.9	1415.0	1386.1	1309.7
13875.9	57.5°	10376.6	5143.6	1606.8	1393.4	1445.3	1381.8	1376.1	1342.9	1305.4	1253.4
15068.8	60°	11159.9	5220.1	1531.8	1373.2	1419.3	1324.1	1295.3	1282.3	1244.8	1218.8
16504.0	62.5°	12013.8	5289.3	1455.4	1376.1	1389.0	1267.9	1224.6	1220.3	1197.2	1188.5
17851.2	65°	12596.5	5100.3	1360.2	1373.2	1341.4	1210.2	1155.4	1153.9	1135.2	1132.3
18435.4	67.5°	12393.1	4501.7	1231.8	1332.8	1292.4	1152.5	1091.9	1086.1	1061.6	1063.1
17825.2	70°	11374.8	3647.8	1054.4	1233.3	1231.8	1100.6	1025.5	1006.8	973.6	979.4
15498.6	72.5°	9465.0	2703.1	816.4	1067.4	1135.2	1053.0	949.1	918.8	877.0	882.8
11441.1	75°	6835.5	1837.6	594.3	812.1	988.0	996.7	874.1	822.2	771.7	780.3
6368.2	77.5°	3497.8	1041.4	437.0	559.7	776.0	905.8	806.3	737.1	725.5	806.3
1836.2	80°	1140.9	522.1	302.9	392.3	509.2	741.4	706.8	627.4	624.6	643.3
385.1	82.5°	340.4	220.7	194.7	258.2	281.3	568.3	610.1	474.6	408.2	429.8
128.4	85°	116.8	106.7	111.1	128.4	134.1	333.2	427.0	314.4	297.1	327.4
28.8	87.5°	27.4	37.5	31.7	28.8	28.8	80.8	165.9	131.3	181.7	121.2
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>
3278.6
2592.0
2355.4
2387.2
2468.0
2537.2
2576.1
2570.4
2506.9
2400.2
2284.8
2179.5
2091.5
2052.5
1997.7
1899.6
1719.3
1619.8
1596.7
1531.8
1456.8
1371.7
1311.1
1236.1
1226.0
1188.5
1130.8
1063.1
985.2
881.3
783.2
794.8
552.4
444.3
323.1
116.8
0.0

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