

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: P950366

Luminaire Tested: **GALN-SB4D-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950366  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4D-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

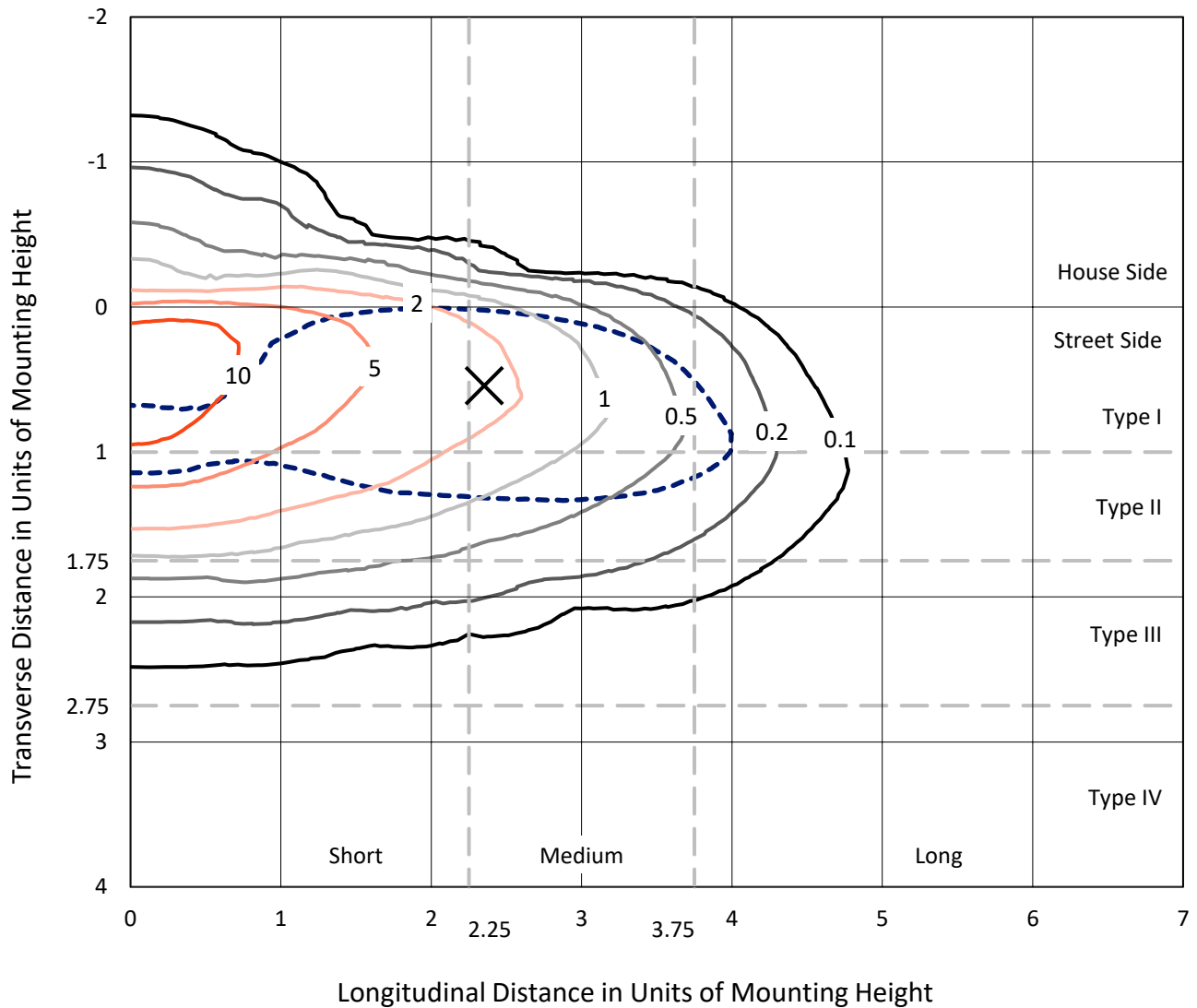
Lumens per Lamp: N/A  
Luminaire Lumens: 31027 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

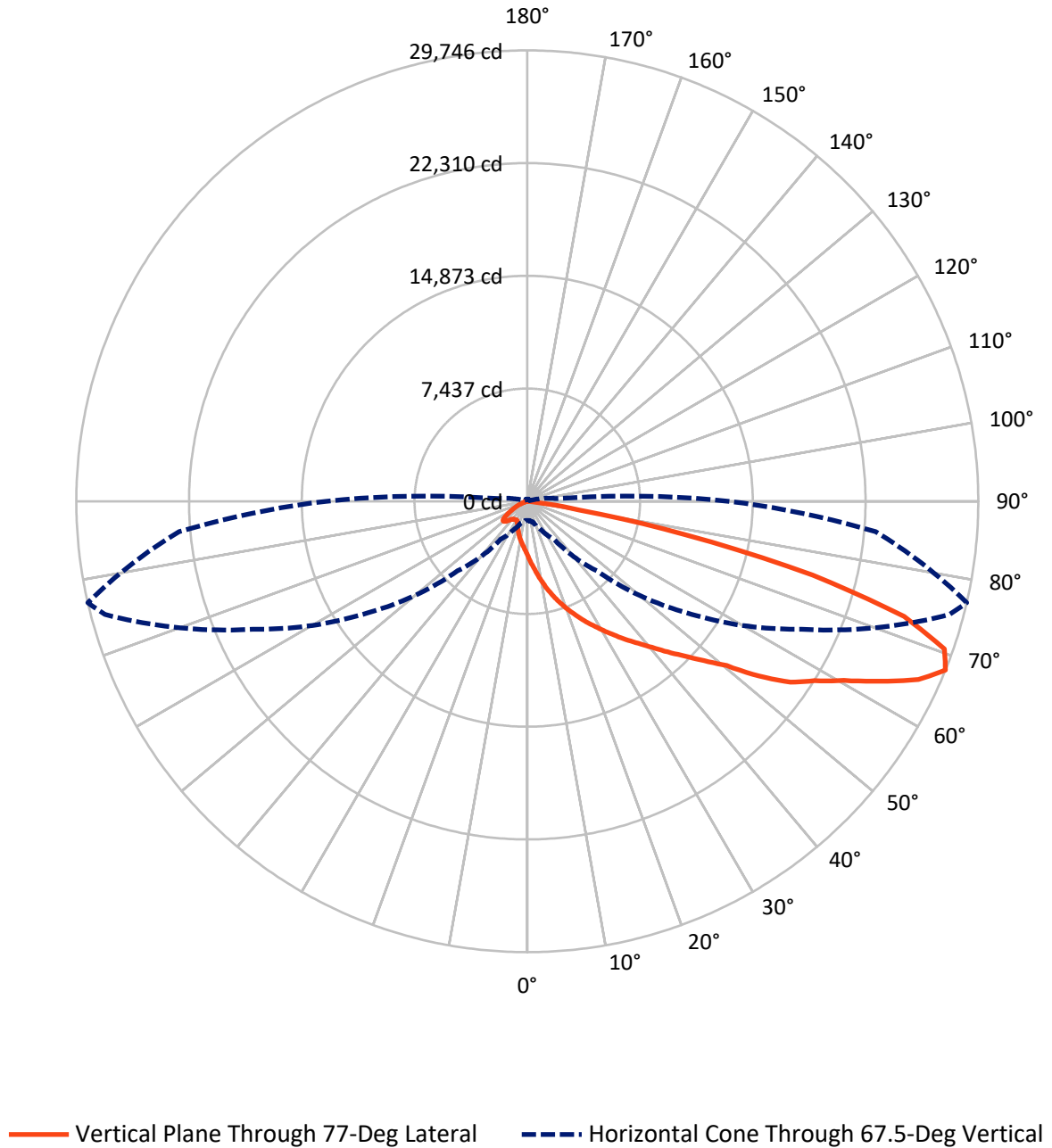
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2282.7	0.0	2282.7
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	28744.3	0.0	28744.3
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	31027.0	0.0	31027.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	1.2
10°-20°	1278.8	4.1
20°-30°	2467.8	8.0
30°-40°	4284.2	13.8
40°-50°	6220.4	20.0
50°-60°	7143.4	23.0
60°-70°	6201.8	20.0
70°-80°	2921.1	9.4
80°-90°	144.5	0.5
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°	31027.0	100.0
0°-180°	31027.0	100.0

**Coefficient of Utilization**



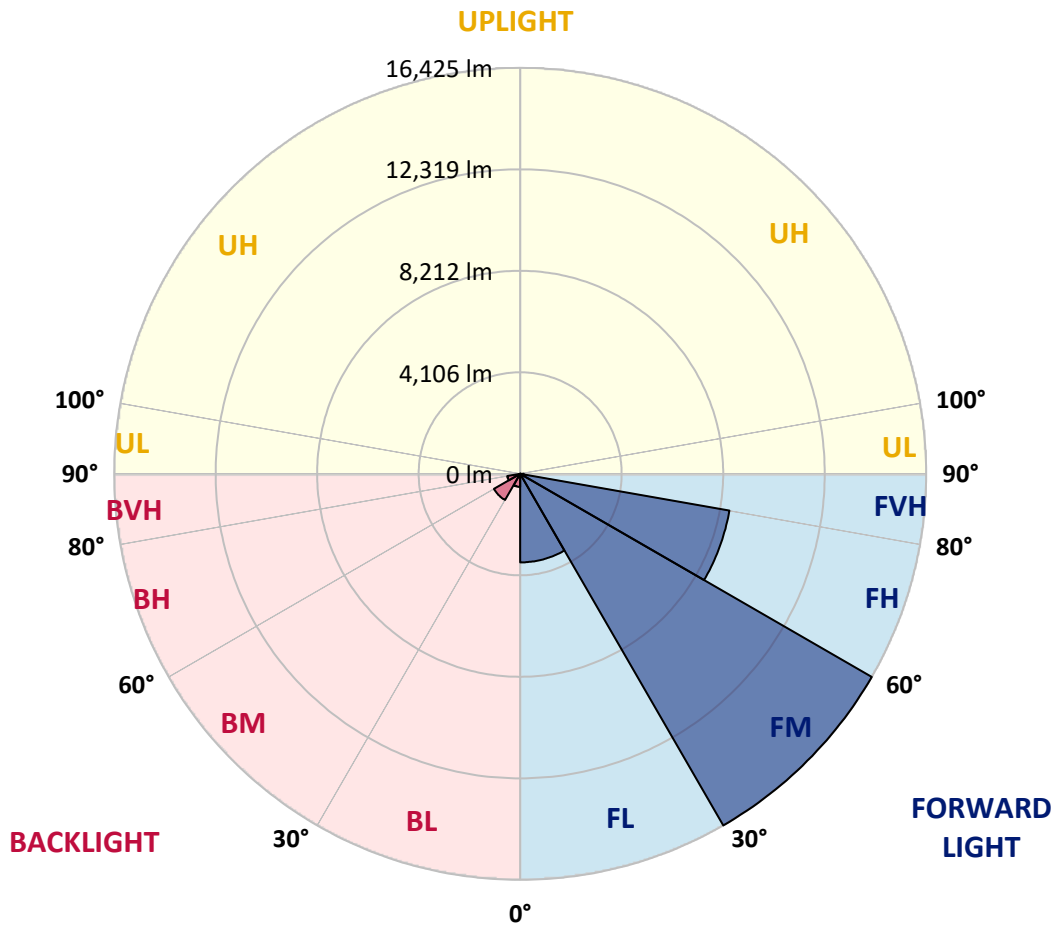
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3583.3	11.5			
FM (30°-60°)	16424.9	52.9			
FH (60°-80°)	8594.4	27.7			G4/12000
FVH (80°-90°)	141.8	0.5			G2/225
BL (0°-30°)	528.5	1.7	B2/1000		
BM (30°-60°)	1223.1	3.9	B2/2500		
BH (60°-80°)	528.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9
2.5°	4953.5	4984.4	4940.0	4855.3	4728.1	4645.3	4443.0	4252.2	4040.3	3972.8
5°	6038.3	6065.2	6015.1	5922.7	5753.1	5591.3	5325.4	4926.6	4512.3	4379.4
7.5°	6841.7	6857.1	6837.8	6753.1	6591.2	6408.2	6111.5	5639.4	5024.8	4878.4
10°	7419.7	7469.8	7464.0	7431.3	7323.4	7175.0	6859.0	6321.5	5599.0	5410.2
12.5°	7803.1	7859.0	7891.7	7964.9	7959.2	7864.8	7587.3	7018.9	6171.2	5949.6
15°	7914.9	7974.6	8099.8	8269.4	8419.6	8467.8	8273.2	7702.9	6801.2	6518.0
17.5°	7851.3	7943.8	8094.0	8361.8	8691.3	8909.0	8887.8	8363.8	7373.5	7049.8
20°	7991.9	8080.6	8198.1	8423.5	8806.9	9201.9	9359.9	8995.7	7941.8	7602.7
22.5°	8770.3	8754.9	8766.5	8803.1	9032.3	9423.5	9749.1	9569.9	8504.4	8157.6
25°	10003.4	9934.0	9816.5	9618.1	9560.3	9749.1	10088.2	10078.5	9097.8	8726.0
27.5°	11417.6	11406.0	11130.5	10652.7	10382.9	10309.7	10471.6	10573.7	9685.5	9288.6
30°	12772.0	12802.9	12431.0	11899.3	11404.1	11117.0	10970.6	11043.8	10282.8	9895.5
32.5°	13951.2	13983.9	13579.3	12957.0	12344.3	11997.5	11689.2	11508.1	10934.0	10512.0
35°	14947.3	14980.0	14515.7	13827.9	13174.7	12860.7	12511.9	12016.8	11589.1	11196.0
37.5°	15837.4	15827.8	15205.5	14511.9	13870.3	13621.7	13438.7	12643.0	12263.4	11883.8
40°	16363.4	16403.9	15872.1	15107.2	14484.9	14303.8	14292.2	13419.4	13041.8	12673.8
42.5°	16517.5	16588.8	16203.5	15575.4	15010.9	14814.3	15116.8	14259.5	13947.3	13589.0
45°	16240.1	16309.5	16134.1	15698.7	15369.2	15242.1	15825.9	15130.3	14914.5	14560.0
47.5°	15430.9	15517.6	15560.0	15467.5	15463.6	15592.7	16461.7	16047.4	16062.8	15700.6
50°	13864.5	14010.9	14400.1	14727.6	15234.4	15870.2	17080.1	17041.6	17357.6	17045.5
52.5°	11016.8	11224.9	12565.9	13461.8	14600.5	15818.2	17760.3	18636.9	19629.1	19172.5
55°	8853.2	8853.2	9943.7	11619.9	13363.5	15475.2	18057.0	19673.5	21176.3	21068.4
57.5°	7217.4	7304.1	7999.6	9481.3	11573.6	14658.3	18240.0	20324.7	22422.9	22343.9
60°	4454.5	4641.4	5955.4	7417.8	9537.1	13203.6	18124.4	20983.6	23935.3	23998.9
62.5°	2508.6	2577.9	3163.6	5336.9	7415.8	11248.0	17240.1	21351.6	25869.7	26139.4
65°	1732.1	1766.8	1992.2	3321.6	5140.4	8955.3	15511.8	21122.3	27808.0	28353.2
67.5°	1258.1	1275.5	1416.1	2028.8	3050.0	6493.0	12802.9	19966.3	28834.9	29746.2
70°	967.2	978.8	1080.9	1333.3	1801.5	4007.5	9298.2	17667.8	28091.2	29179.8
72.5°	786.1	797.7	876.6	986.5	1194.5	2369.8	5635.6	14348.1	24808.1	25983.4
75°	662.8	678.2	749.5	820.8	936.4	1522.1	2643.4	9991.8	18656.2	19426.8
77.5°	368.0	339.1	608.8	680.1	789.9	963.3	1236.9	5880.3	10448.5	10662.3
80°	229.3	237.0	483.6	547.2	606.9	485.5	566.4	2263.9	3622.2	3441.1
82.5°	13.5	30.8	371.9	395.0	416.2	208.1	213.9	768.8	872.8	801.5
85°	0.0	0.0	169.5	136.8	144.5	59.7	61.7	179.2	117.5	127.2
87.5°	0.0	0.0	0.0	3.9	0.0	5.8	11.6	15.4	5.8	7.7
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°
3577.9	0°	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9	3577.9
3760.9	2.5°	3626.0	3491.2	3217.6	2949.8	2732.1	2529.7	2385.2	2248.5	2179.1	2175.2
4003.7	5°	3735.9	3452.6	2905.5	2421.9	2032.7	1720.5	1518.2	1373.7	1300.5	1275.5
4302.3	7.5°	3890.0	3464.2	2631.9	1959.4	1500.9	1233.1	1117.5	1071.2	1055.8	1038.5
4639.5	10°	4084.6	3491.2	2387.2	1578.0	1183.0	1048.1	1001.9	982.6	971.1	959.5
5019.0	12.5°	4302.3	3516.2	2144.4	1310.2	1040.4	971.1	938.3	915.2	899.8	886.3
5408.2	15°	4514.2	3531.6	1892.0	1123.3	967.2	911.3	876.6	851.6	830.4	815.0
5789.7	17.5°	4724.3	3552.8	1655.0	1011.5	907.5	851.6	816.9	786.1	768.8	751.4
6190.5	20°	4957.4	3549.0	1431.5	932.5	847.7	791.9	755.3	726.4	709.0	689.8
6614.3	22.5°	5173.2	3529.7	1235.0	865.1	786.1	732.1	691.7	662.8	645.4	630.0
7047.8	25°	5421.7	3514.3	1071.2	803.4	728.3	674.3	630.0	603.1	583.8	570.3
7483.3	27.5°	5660.6	3491.2	951.8	747.6	672.4	620.4	578.0	547.2	529.8	520.2
7932.2	30°	5895.7	3485.4	907.5	693.6	622.3	570.3	527.9	499.0	485.5	481.7
8425.4	32.5°	6178.9	3500.8	926.7	674.3	576.1	524.1	483.6	462.4	448.9	448.9
8974.5	35°	6481.4	3496.9	955.6	691.7	545.3	477.8	447.0	433.5	420.0	420.0
9583.4	37.5°	6861.0	3502.7	978.8	720.6	533.7	439.3	421.9	404.6	396.9	396.9
10250.0	40°	7427.4	3693.5	967.2	745.6	529.8	412.3	377.6	371.9	366.1	366.1
11003.3	42.5°	8121.0	4107.7	982.6	747.6	527.9	393.0	346.8	358.4	344.9	343.0
11853.0	45°	8880.1	4560.5	1080.9	707.1	526.0	383.4	331.4	344.9	323.7	323.7
12837.6	47.5°	9633.5	5009.4	1181.1	649.3	520.2	381.5	317.9	310.2	304.4	306.3
14120.7	50°	10672.0	5375.5	1219.6	570.3	506.7	377.6	292.9	294.8	290.9	294.8
15929.9	52.5°	11802.9	5452.5	1173.4	481.7	468.2	366.1	275.5	283.2	281.3	285.2
17203.4	55°	12508.1	5369.7	969.1	400.8	408.5	319.8	258.2	273.6	273.6	273.6
18448.1	57.5°	13236.4	5017.1	687.8	325.6	339.1	262.0	242.8	264.0	262.0	260.1
19947.1	60°	13760.4	4446.8	452.8	267.8	269.7	215.8	225.4	248.5	246.6	237.0
21492.3	62.5°	14151.6	3816.8	290.9	227.3	206.2	194.6	206.2	225.4	217.7	196.5
22802.4	65°	14107.2	2944.0	223.5	194.6	169.5	169.5	179.2	196.5	173.4	138.7
23052.9	67.5°	13284.5	1992.2	185.0	163.8	142.6	140.6	148.4	163.8	148.4	117.5
21769.7	70°	11814.5	1302.4	148.4	127.2	113.7	104.0	119.5	140.6	125.2	94.4
18532.9	72.5°	9589.2	793.8	111.7	92.5	82.8	67.4	94.4	115.6	100.2	69.4
12887.7	75°	6204.0	404.6	77.1	59.7	44.3	40.5	69.4	86.7	69.4	42.4
5718.4	77.5°	2373.7	169.5	42.4	27.0	23.1	19.3	38.5	52.0	28.9	9.6
1107.8	80°	456.6	71.3	21.2	13.5	11.6	7.7	5.8	3.9	0.0	0.0
196.5	82.5°	79.0	23.1	7.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0
38.5	85°	27.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.5	87.5°	9.6	0.0	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

180°
3577.9
2171.4
1271.6
1034.6
955.6
882.4
813.1
749.5
687.8
628.1
568.4
520.2
479.7
448.9
420.0
396.9
366.1
341.0
323.7
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285.2
273.6
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