

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: P943897

Luminaire Tested: **GALN-SB8C-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54451 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

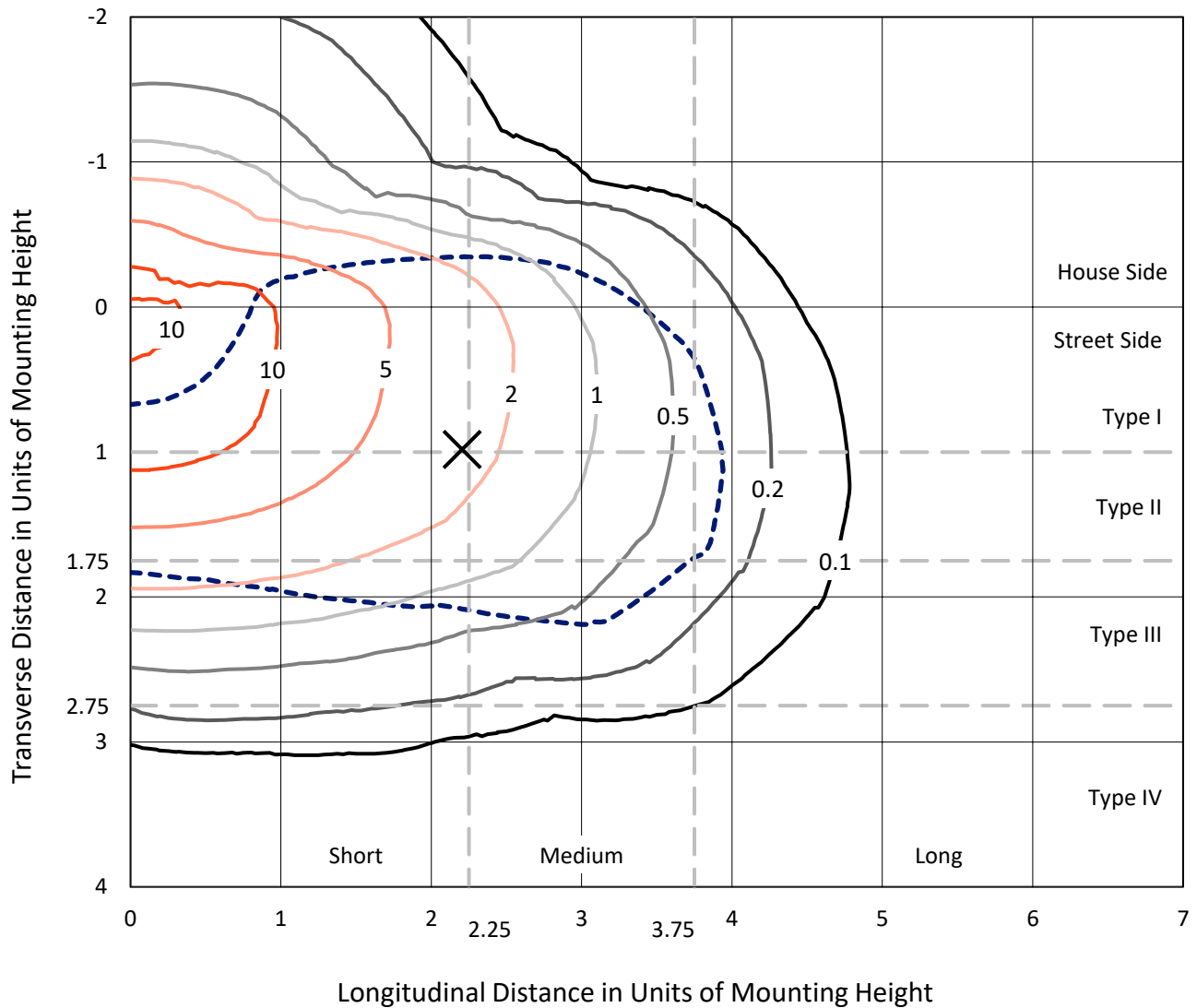
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943897
 CATALOG NUMBER: GALN-SB8C-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

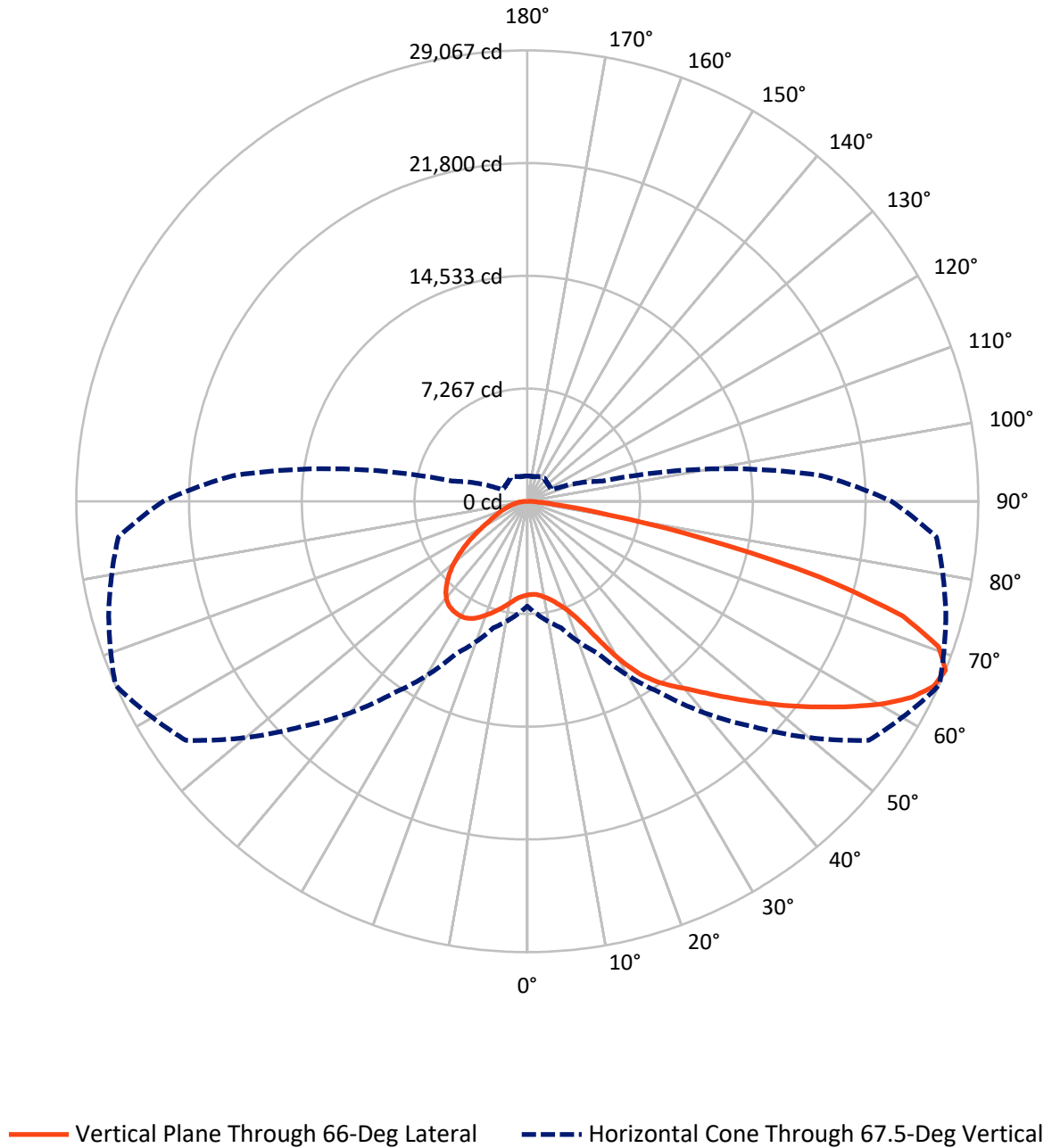
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type III - Short - N/A

REPORT NUMBER: P943897
CATALOG NUMBER: GALN-SB8C-830-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13539.1	0.0	13539.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	40911.9	0.0	40911.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	54451.0	0.0	54451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	598.8	1.1
10°-20°	1978.3	3.6
20°-30°	3813.0	7.0
30°-40°	6685.6	12.3
40°-50°	9939.3	18.3
50°-60°	12599.1	23.1
60°-70°	12327.9	22.6
70°-80°	5880.5	10.8
80°-90°	628.5	1.2
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°	54451.0	100.0
0°-180°	54451.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943897

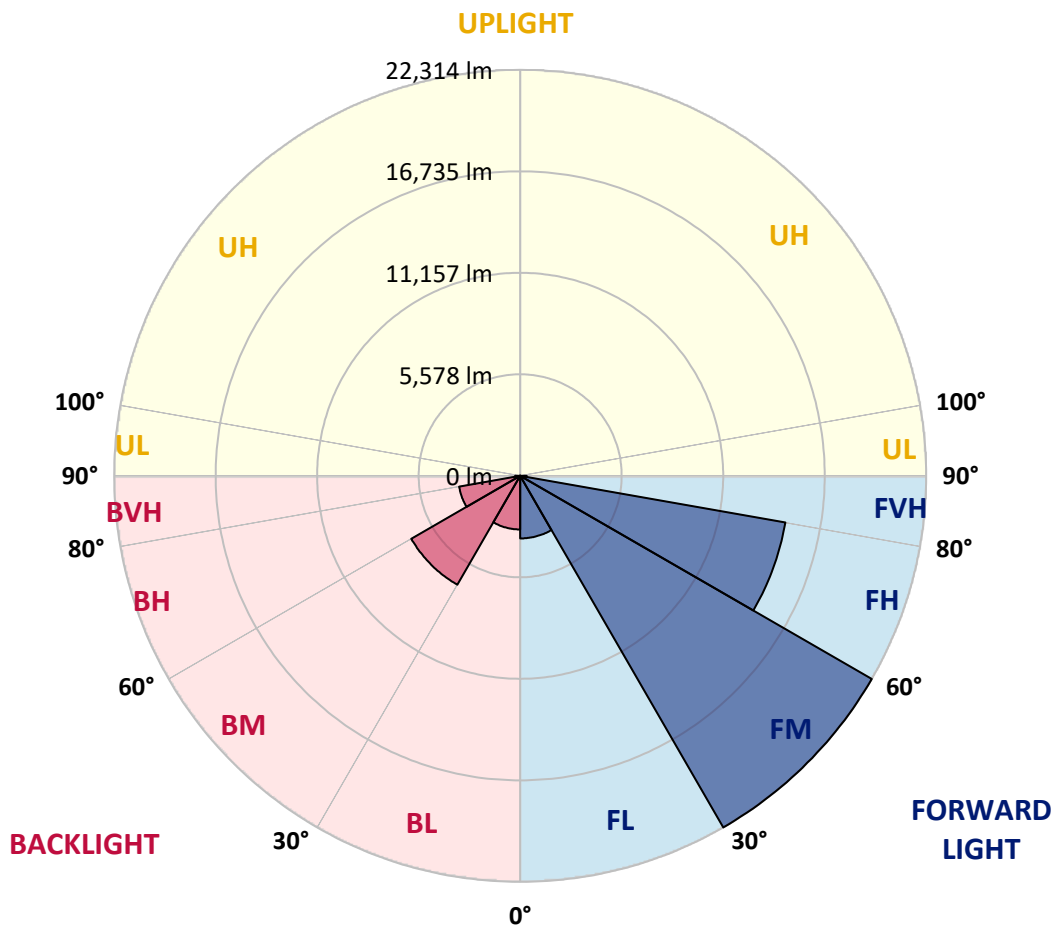
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3440.8	6.3			
FM (30°-60°)	22313.6	41.0			
FH (60°-80°)	14801.3	27.2			G5
FVH (80°-90°)	356.3	0.7			G3/500
BL (0°-30°)	2949.3	5.4	B4/5000		
BM (30°-60°)	6910.5	12.7	B4/8500		
BH (60°-80°)	3407.1	6.3	B4/5000		G4/5000
BVH (80°-90°)	272.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P943897
 CATALOG NUMBER: GALN-SB8C-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3
2.5°	5976.4	6010.7	6002.1	5987.8	5985.0	5990.7	5999.3	6007.9	6005.0	6019.3
5°	5959.2	5993.6	5990.7	5990.7	6002.1	6025.0	6039.3	6053.6	6039.3	6056.5
7.5°	5970.7	5996.4	6007.9	6019.3	6047.9	6090.8	6125.2	6156.6	6139.5	6159.5
10°	6116.6	6136.6	6148.0	6148.0	6168.1	6216.7	6251.0	6308.3	6294.0	6325.4
12.5°	6382.6	6402.7	6402.7	6391.2	6405.5	6437.0	6448.4	6511.4	6485.6	6537.1
15°	6708.8	6748.8	6717.4	6697.3	6703.1	6734.5	6731.7	6780.3	6754.6	6797.5
17.5°	7069.3	7120.8	7069.3	7066.4	7055.0	7089.3	7092.1	7135.1	7089.3	7120.8
20°	7495.5	7567.0	7524.1	7538.4	7512.7	7527.0	7541.3	7604.2	7532.7	7555.6
22.5°	8096.3	8182.1	8136.4	8190.7	8173.6	8162.1	8159.3	8270.8	8159.3	8167.8
25°	8971.7	9074.7	8994.6	9069.0	9069.0	9106.2	9149.1	9292.2	9106.2	9051.9
27.5°	10264.9	10367.9	10210.5	10256.3	10242.0	10333.5	10287.8	10642.5	10442.2	10353.6
30°	11821.2	12004.3	11706.8	11695.3	11681.0	11826.9	11892.7	12127.3	11924.2	11835.5
32.5°	13503.4	13695.1	13340.3	13237.3	13183.0	13271.7	13217.3	13406.1	13265.9	13128.6
35°	15282.9	15471.7	15134.1	14933.8	14716.4	14530.5	14335.9	14384.5	14252.9	14044.1
37.5°	16965.1	17311.2	16953.6	16739.1	16338.5	15975.2	15431.6	15205.6	15082.6	14890.9
40°	18678.7	18876.1	18604.4	18421.3	17986.4	17417.1	16547.4	16069.6	15903.7	15717.7
42.5°	19940.4	20129.2	19983.3	19857.4	19517.0	18856.1	17731.8	17133.9	16893.5	16684.7
45°	20941.7	21081.9	20990.3	21036.1	20890.2	20249.4	18959.1	18275.4	18026.5	17771.8
47.5°	21345.1	21493.9	21639.8	21911.5	22160.4	21688.4	20278.0	19511.3	19248.1	18987.7
50°	21299.3	21450.9	21874.4	22452.3	23224.7	23067.3	21668.4	20827.3	20584.1	20286.6
52.5°	20933.1	21104.8	21648.3	22609.6	23839.8	24100.1	23084.5	22186.2	21957.3	21602.6
55°	19971.9	20074.9	20890.2	22252.0	23985.7	24821.1	24472.0	23633.8	23404.9	22910.0
57.5°	18189.5	18338.3	19525.6	21287.9	23619.5	25310.3	25690.8	25155.8	24935.5	24223.1
60°	15863.6	16101.1	17460.0	19668.6	22686.8	25307.4	26797.9	26652.0	26468.9	25516.3
62.5°	13231.6	13506.3	14813.7	17379.9	21056.1	24589.3	27490.3	27905.1	27810.7	26709.3
65°	10161.9	10350.7	11652.4	14418.9	18518.5	23047.3	27570.4	28760.5	28777.7	27616.2
67.5°	6766.0	7309.6	8439.6	10819.9	15119.8	20526.9	26866.6	28900.7	29066.6	27928.0
70°	3301.5	4016.7	5123.9	7032.1	10819.9	16661.8	25027.1	27750.6	28119.7	27018.2
72.5°	1370.4	1602.1	2205.7	3470.3	6211.0	11243.3	21330.8	24632.2	25316.0	23939.9
75°	924.1	1001.3	1261.7	1779.5	2829.4	5544.4	15383.0	18366.9	19468.3	18080.8
77.5°	712.4	761.0	918.3	1244.5	1682.2	2097.0	8233.6	11068.8	11638.1	10774.1
80°	560.7	597.9	686.6	906.9	1193.0	1121.5	2806.5	5015.1	5344.1	4483.0
82.5°	486.4	500.7	492.1	615.1	792.5	655.1	921.2	1851.0	2042.7	1481.9
85°	351.9	391.9	409.1	380.5	420.6	331.9	377.6	655.1	720.9	643.7
87.5°	143.0	211.7	260.3	246.0	154.5	94.4	117.3	191.7	220.3	240.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943897
 CATALOG NUMBER: GALN-SB8C-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6039.3	0°	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3	6039.3
6042.2	2.5°	6045.1	6065.1	6079.4	6096.6	6108.0	6125.2	6159.5	6179.5	6182.4	6196.7
6088.0	5°	6099.4	6128.0	6159.5	6205.3	6256.8	6299.7	6365.5	6411.3	6428.4	6442.7
6199.5	7.5°	6216.7	6256.8	6314.0	6394.1	6468.5	6525.7	6605.8	6660.1	6714.5	6734.5
6376.9	10°	6391.2	6448.4	6531.4	6640.1	6720.2	6794.6	6877.6	6923.4	6977.7	7000.6
6588.6	12.5°	6608.7	6668.7	6777.4	6929.1	7003.5	7055.0	7083.6	7072.1	7083.6	7103.6
6843.2	15°	6857.5	6923.4	7046.4	7209.4	7260.9	7215.2	7152.2	7095.0	7086.4	7092.1
7152.2	17.5°	7152.2	7200.9	7343.9	7481.2	7444.0	7255.2	7117.9	7026.3	6980.6	6966.3
7547.0	20°	7564.2	7564.2	7681.5	7767.3	7518.4	7198.0	6983.4	6834.7	6740.3	6700.2
8084.9	22.5°	8064.8	8019.1	8093.5	8033.4	7504.1	7037.8	6740.3	6482.8	6339.7	6282.5
8837.3	25°	8700.0	8645.6	8625.6	8253.7	7401.1	6783.2	6299.7	5987.8	5862.0	5830.5
9921.6	27.5°	9658.4	9521.0	9260.7	8373.8	7212.3	6382.6	5784.7	5495.8	5424.2	5427.1
11314.8	30°	10934.3	10659.7	10021.7	8393.8	6903.3	5816.2	5258.3	5052.3	5018.0	5032.3
12484.9	32.5°	12115.9	11855.5	10799.9	8302.3	6428.4	5261.2	4786.3	4648.9	4597.4	4614.6
13377.5	35°	13042.8	12971.3	11520.8	8173.6	5844.8	4740.5	4362.9	4245.6	4145.4	4122.5
14218.6	37.5°	13918.2	13889.6	12061.5	7993.3	5266.9	4371.4	4022.4	3867.9	3722.0	3641.9
15148.4	40°	14879.5	14850.9	12416.3	7715.8	4754.8	4051.0	3716.3	3513.2	3332.9	3187.0
16201.2	42.5°	15960.9	15792.1	12585.0	7318.2	4319.9	3779.2	3467.4	3192.8	2955.3	2820.8
17391.3	45°	17142.4	16761.9	12582.2	6811.8	3953.7	3530.3	3201.3	2812.3	2592.0	2466.1
18612.9	47.5°	18395.5	17688.9	12427.7	6251.0	3599.0	3255.7	2789.4	2491.8	2345.9	2268.7
19940.4	50°	19688.6	18555.7	12164.5	5607.3	3235.7	2943.9	2531.9	2328.8	2217.2	2145.7
21256.4	52.5°	20904.5	19342.5	11846.9	4877.8	2866.6	2640.6	2417.5	2260.1	2142.8	2062.7
22532.4	55°	22034.6	20020.5	11397.8	4131.1	2566.2	2437.5	2363.1	2231.5	2097.0	2002.6
23828.3	57.5°	23038.7	20461.1	10622.5	3430.2	2351.7	2297.3	2305.9	2182.9	2028.4	1948.3
25104.3	60°	23874.1	20784.4	9475.3	2780.8	2177.1	2160.0	2217.2	2091.3	1911.1	1819.5
26182.9	62.5°	24374.8	20778.6	8067.7	2277.3	2028.4	2034.1	2099.9	1976.9	1793.8	1708.0
26746.4	65°	24331.9	20269.4	6522.8	1948.3	1885.3	1891.0	1976.9	1851.0	1696.5	1645.0
26463.2	67.5°	23470.7	19027.8	5003.7	1733.7	1728.0	1753.7	1853.9	1765.2	1636.4	1630.7
24775.3	70°	21139.1	16450.1	3604.7	1562.0	1564.9	1602.1	1733.7	1710.8	1605.0	1616.4
20830.1	72.5°	16950.8	12542.1	2420.3	1381.8	1384.7	1444.7	1619.3	1667.9	1573.5	1725.1
14779.3	75°	11289.1	7821.7	1556.3	1190.1	1193.0	1270.2	1519.1	1584.9	1487.7	1719.4
7690.1	77.5°	5424.2	3516.0	1127.2	1001.3	1001.3	1072.8	1313.1	1419.0	1267.4	1336.0
2471.8	80°	1873.9	1321.7	886.9	806.8	789.6	838.2	1107.2	1230.2	1092.9	1007.0
806.8	82.5°	738.1	686.6	712.4	626.5	569.3	600.8	861.1	1015.6	803.9	726.7
454.9	85°	423.4	446.3	503.5	414.8	329.0	369.1	632.3	729.5	606.5	535.0
148.8	87.5°	114.4	157.3	231.7	214.6	148.8	157.3	300.4	403.4	349.0	268.9
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>
6039.3
6193.8
6439.9
6737.4
7012.0
7109.3
7112.2
6986.3
6691.6
6273.9
5836.2
5435.7
5080.9
4637.5
4139.7
3644.8
3201.3
2829.4
2460.4
2251.5
2119.9
2028.4
1965.4
1896.8
1779.5
1682.2
1642.1
1639.3
1613.5
1748.0
1733.7
1224.5
944.1
723.8
546.4
277.5
0.0

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