

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: P957533

Luminaire Tested: **GALN-SB9D-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957533
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-SB9D-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 900mA 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: 66222 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

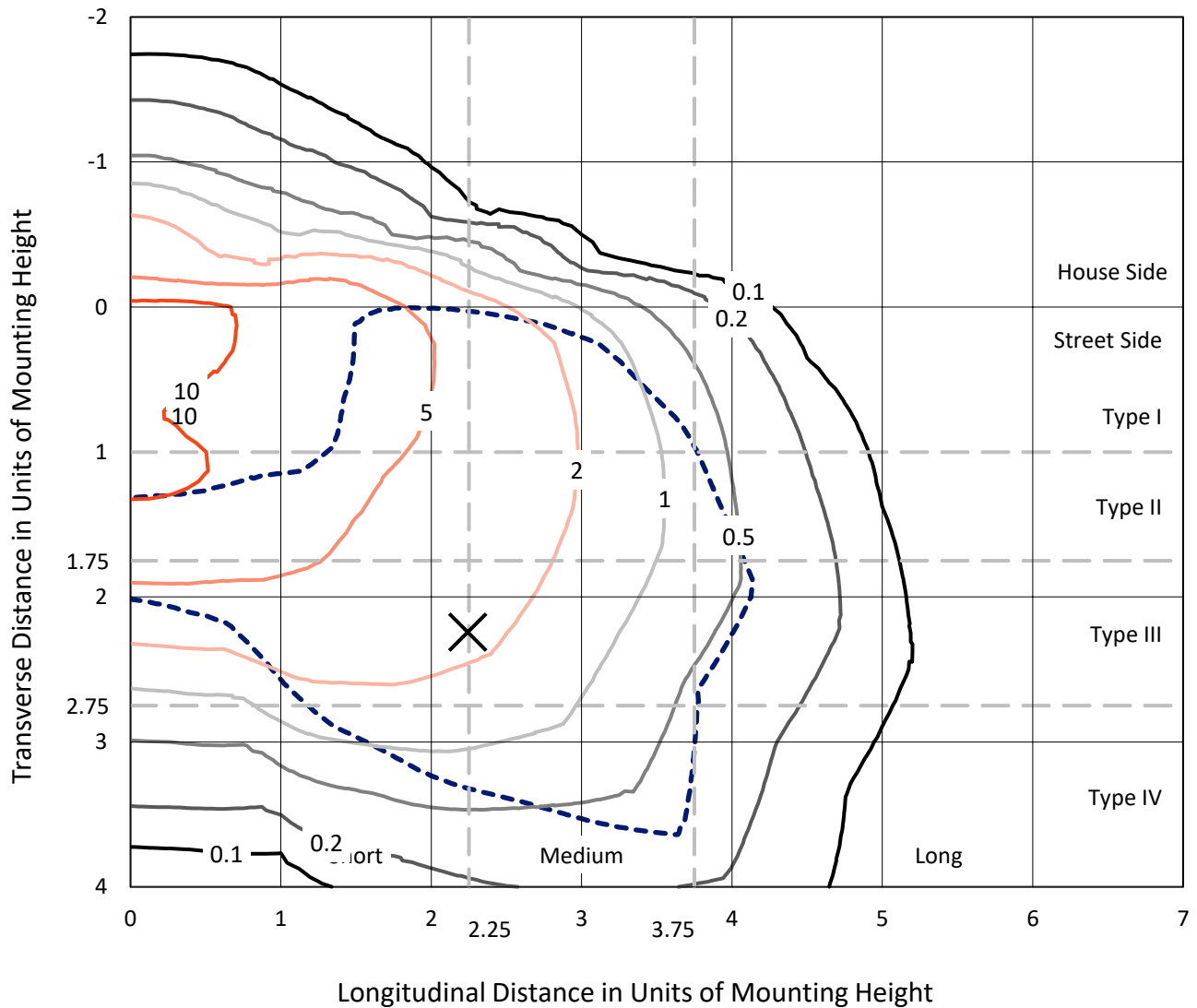
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

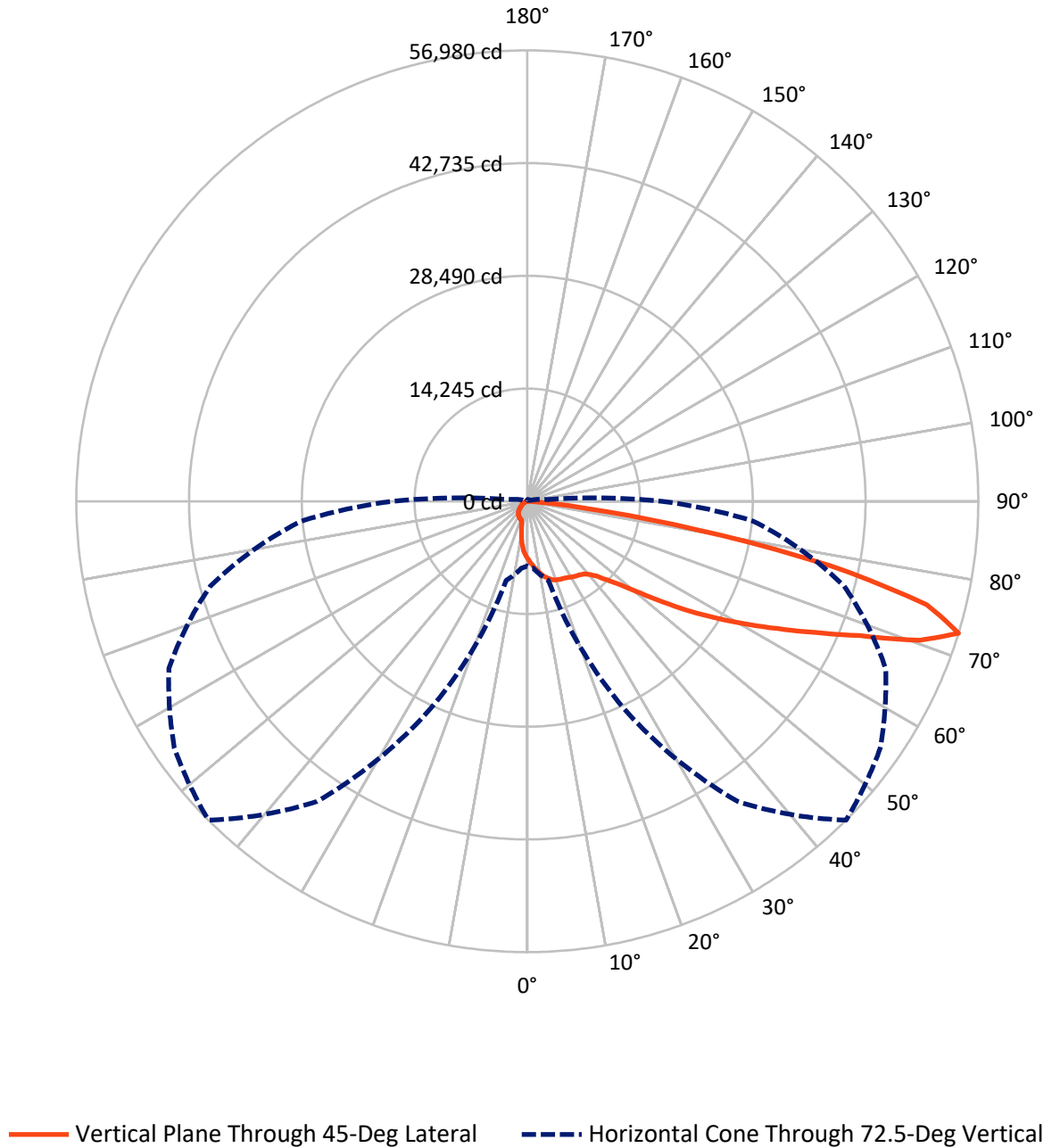
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6958.1	0.0	6958.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	59263.9	0.0	59263.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	66222.0	0.0	66222.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.5	1.0
10°-20°	1997.7	3.0
20°-30°	3280.6	5.0
30°-40°	4652.6	7.0
40°-50°	7690.3	11.6
50°-60°	13814.7	20.9
60°-70°	19182.4	29.0
70°-80°	13914.3	21.0
80°-90°	1006.0	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°	66222.0	100.0
0°-180°	66222.0	100.0

Coefficient of Utilization



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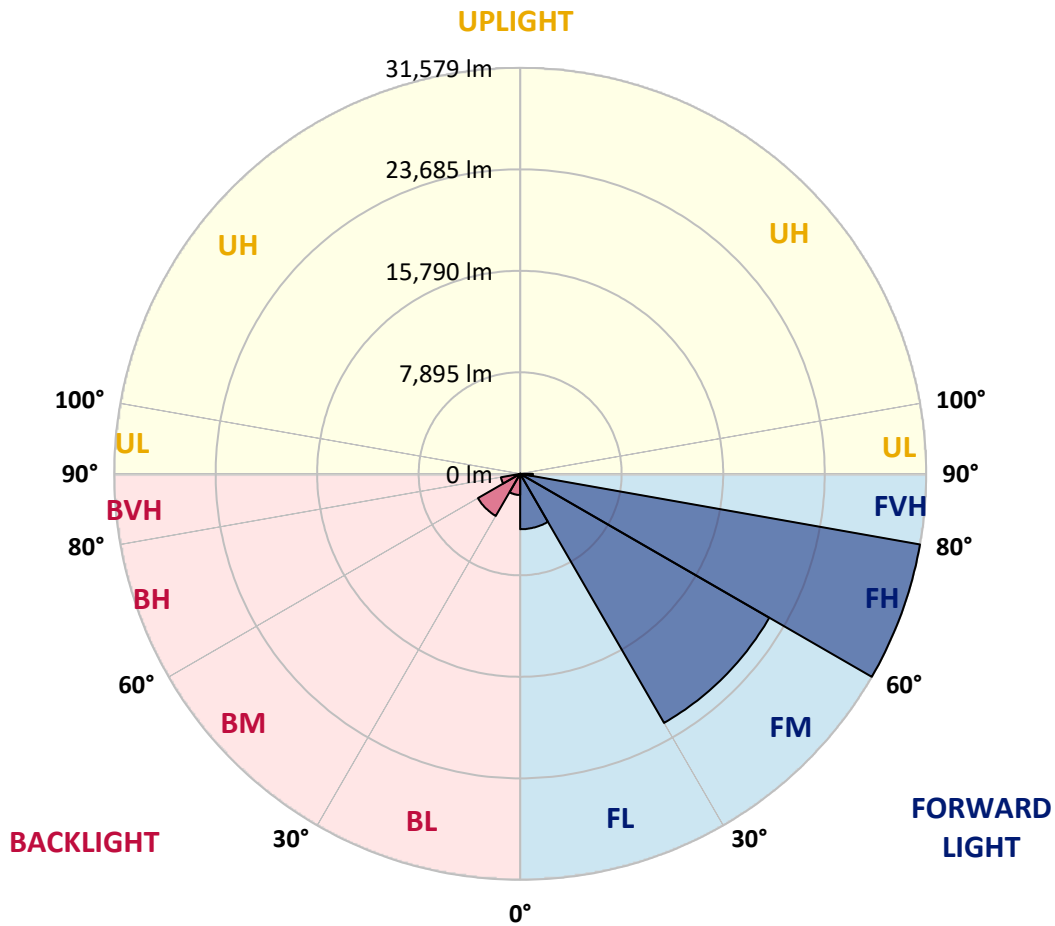
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4313.7	6.5			
FM (30°-60°)	22373.3	33.8			
FH (60°-80°)	31579.4	47.7			G5
FVH (80°-90°)	997.5	1.5			G5
BL (0°-30°)	1648.1	2.5	B3/2500		
BM (30°-60°)	3784.2	5.7	B3/5000		
BH (60°-80°)	1517.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8
2.5°	7923.7	7937.3	7928.3	7874.0	7783.6	7733.9	7706.8	7616.4	7557.6	7453.6
5°	8651.5	8705.7	8674.1	8565.6	8393.8	8271.8	8235.6	8050.3	7883.1	7688.7
7.5°	9424.4	9451.5	9392.8	9252.6	9022.1	8814.2	8782.6	8524.9	8258.2	7959.9
10°	10093.4	10125.0	10034.6	9831.2	9569.1	9311.4	9266.2	8981.4	8665.0	8298.9
12.5°	10653.9	10685.5	10568.0	10323.9	10034.6	9767.9	9722.7	9424.4	9076.4	8669.6
15°	11078.8	11137.5	10979.3	10717.2	10405.3	10138.6	10116.0	9822.2	9483.2	9031.2
17.5°	11327.4	11386.1	11237.0	10920.6	10653.9	10427.9	10400.8	10156.7	9840.3	9406.3
20°	11368.1	11422.3	11264.1	10988.4	10766.9	10586.1	10572.5	10396.2	10165.7	9749.9
22.5°	11246.0	11313.8	11169.2	10947.7	10794.0	10699.1	10681.0	10581.6	10450.5	10097.9
25°	11119.4	11173.7	11065.2	10870.8	10789.5	10780.4	10794.0	10775.9	10748.8	10450.5
27.5°	11110.4	11169.2	11047.1	10861.8	10816.6	10911.5	10925.1	11011.0	11033.6	10771.4
30°	11187.2	11227.9	11110.4	10916.0	10893.4	11110.4	11114.9	11268.6	11304.8	11042.6
32.5°	11354.5	11399.7	11282.2	10997.4	10965.8	11268.6	11282.2	11485.6	11544.3	11331.9
35°	11747.7	11802.0	11666.4	11223.4	11110.4	11417.8	11458.5	11698.0	11815.5	11639.3
37.5°	12728.6	12570.4	12385.1	11679.9	11440.4	11652.8	11720.6	12000.9	12208.8	12005.4
40°	15164.9	14667.7	14089.2	12457.4	12018.9	12154.5	12208.8	12489.0	12773.8	12574.9
42.5°	18821.7	18234.1	17302.9	14247.4	12891.3	12959.1	12999.8	13243.9	13646.2	13488.0
45°	22080.7	21868.2	20919.0	17302.9	14523.1	14188.6	14238.3	14364.9	14957.0	14898.3
47.5°	24584.8	24462.8	23730.5	20810.5	17280.3	15693.8	15833.9	15892.7	16747.0	16954.9
50°	26510.4	26465.2	25809.8	23929.4	20882.9	17913.2	17962.9	17836.3	19115.5	19630.8
52.5°	28327.5	28481.2	27997.5	26826.8	24729.5	20819.6	20810.5	20213.9	21940.6	22718.0
55°	29968.3	30022.5	30072.2	29782.9	28598.7	24128.3	24042.4	23066.1	25217.6	26022.2
57.5°	31509.6	31532.2	31975.2	32567.3	32626.1	27681.1	27522.9	26352.2	28797.6	29371.6
60°	32544.7	32648.7	33584.3	35229.7	35948.4	31346.9	31261.0	30067.7	32440.8	32707.4
62.5°	31053.1	31685.9	34045.4	37308.9	39085.3	35410.5	35369.8	34248.8	36273.8	36056.8
65°	25136.3	26207.5	30357.0	38714.7	42163.5	39948.6	40007.4	38814.1	40210.8	39505.7
67.5°	17583.2	18713.2	23622.0	38827.7	45603.3	45277.8	45616.9	43745.5	44391.9	42809.9
70°	12159.1	12742.2	15937.9	36395.8	48283.7	52618.5	52609.4	49802.5	48550.4	44315.1
72.5°	8176.9	8479.7	10351.0	28874.4	46312.9	56980.4	56718.2	54431.0	49951.6	41444.8
75°	3448.8	3670.3	4791.3	16227.2	36639.9	52130.3	51420.7	48102.9	44382.9	32635.1
77.5°	1093.9	1188.8	1889.4	5808.3	20182.2	39184.7	38434.4	30040.6	29746.8	16371.8
80°	519.8	605.7	1062.2	2332.4	7941.8	21312.3	21208.3	13628.1	12796.4	4420.7
82.5°	226.0	266.7	587.6	1247.5	3552.8	7602.8	7756.5	4637.6	3837.6	1677.0
85°	72.3	94.9	271.2	574.1	1500.7	1889.4	1866.8	1102.9	1545.9	913.1
87.5°	0.0	0.0	90.4	131.1	153.7	108.5	122.0	94.9	429.4	253.1
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°
7254.8	0°	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8	7254.8
7345.2	2.5°	7290.9	7218.6	7092.0	6974.5	6870.6	6766.6	6703.3	6612.9	6603.9	6603.9
7462.7	5°	7340.6	7223.1	6997.1	6757.5	6481.8	6219.7	5957.5	5704.4	5623.0	5564.2
7652.5	7.5°	7485.3	7300.0	6942.9	6486.3	5962.0	5388.0	4985.7	4551.7	4384.5	4294.1
7905.7	10°	7693.2	7440.1	6897.7	6097.6	5247.8	4465.9	3891.8	3421.7	3240.9	3164.1
8181.4	12.5°	7923.7	7611.8	6816.3	5614.0	4465.9	3530.2	2969.7	2752.7	2725.6	2725.6
8511.3	15°	8199.5	7819.8	6676.2	5044.4	3647.7	2793.4	2594.5	2603.6	2630.7	2648.8
8832.3	17.5°	8484.2	8041.3	6454.7	4407.1	2924.5	2513.2	2517.7	2531.3	2553.9	2571.9
9180.3	20°	8791.6	8262.7	6160.9	3729.1	2508.7	2431.8	2445.4	2458.9	2477.0	2486.1
9505.8	22.5°	9121.6	8470.7	5812.8	3064.6	2368.5	2364.0	2368.5	2382.1	2404.7	2404.7
9885.5	25°	9474.1	8701.2	5415.1	2581.0	2296.2	2296.2	2305.3	2314.3	2332.4	2332.4
10251.6	27.5°	9835.7	8913.6	4994.7	2327.9	2232.9	2228.4	2228.4	2242.0	2251.0	2255.5
10613.2	30°	10233.5	9162.2	4574.3	2273.6	2183.2	2160.6	2147.0	2156.1	2165.1	2169.6
10992.9	32.5°	10640.3	9401.8	4199.2	2296.2	2133.5	2092.8	2047.6	2038.6	2038.6	2056.6
11386.1	35°	11092.3	9664.0	3909.9	2373.1	2106.4	1993.4	1921.0	1880.4	1884.9	1912.0
11856.2	37.5°	11634.7	9980.4	3697.4	2440.9	2088.3	1880.4	1762.8	1713.1	1681.5	1713.1
12502.6	40°	12344.4	10446.0	3543.8	2495.1	2065.7	1749.3	1591.1	1509.7	1451.0	1469.0
13506.1	42.5°	13388.5	11178.2	3485.0	2499.6	2016.0	1595.6	1414.8	1306.3	1220.4	1224.9
15015.8	45°	14853.0	12335.4	3787.8	2440.9	1907.5	1428.4	1229.5	1084.8	1030.6	1017.0
17271.3	47.5°	16860.0	14021.4	4488.5	2318.8	1749.3	1265.6	1048.7	926.6	885.9	863.3
20232.0	50°	19549.4	16186.5	5265.9	2183.2	1591.1	1111.9	899.5	822.7	795.5	772.9
23744.1	52.5°	22668.3	18383.2	5903.3	2047.6	1432.9	976.3	804.6	759.4	736.8	718.7
27134.2	55°	25529.5	19897.5	5867.1	1903.0	1279.2	867.9	736.8	709.7	682.5	664.5
30054.1	57.5°	27310.4	20109.9	4836.5	1744.8	1102.9	782.0	673.5	655.4	623.8	601.2
32580.9	60°	28128.6	18898.5	3390.1	1536.8	926.6	700.6	605.7	596.7	556.0	524.3
34972.0	62.5°	28277.7	16647.5	2260.1	1279.2	772.9	623.8	537.9	524.3	470.1	415.8
36915.7	65°	27672.1	13429.2	1564.0	998.9	659.9	542.4	461.1	433.9	375.2	320.9
37376.7	67.5°	25755.5	9428.9	1089.3	718.7	560.5	429.4	366.1	357.1	311.9	266.7
35026.3	70°	22243.4	5374.4	727.7	537.9	443.0	293.8	289.3	298.3	253.1	217.0
28616.8	72.5°	17054.3	2458.9	452.0	393.2	302.8	198.9	230.5	235.0	194.4	162.7
17854.4	75°	10039.1	1053.2	284.8	253.1	153.7	131.1	167.2	171.8	131.1	104.0
6527.0	77.5°	3417.2	397.8	180.8	149.2	76.8	72.3	108.5	108.5	72.3	40.7
1310.8	80°	777.5	149.2	90.4	58.8	36.2	31.6	36.2	31.6	18.1	4.5
402.3	82.5°	221.5	58.8	36.2	22.6	13.6	13.6	4.5	0.0	0.0	0.0
140.1	85°	63.3	27.1	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0
49.7	87.5°	27.1	4.5	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>
7254.8
6626.5
5591.4
4307.7
3164.1
2725.6
2648.8
2571.9
2490.6
2413.7
2336.9
2260.1
2178.7
2070.2
1925.6
1704.1
1460.0
1206.9
998.9
849.8
768.4
714.2
655.4
596.7
515.3
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302.8
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