

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: P954692

Luminaire Tested: **GALN-SB7D-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954692
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-SB7D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 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: 58609 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

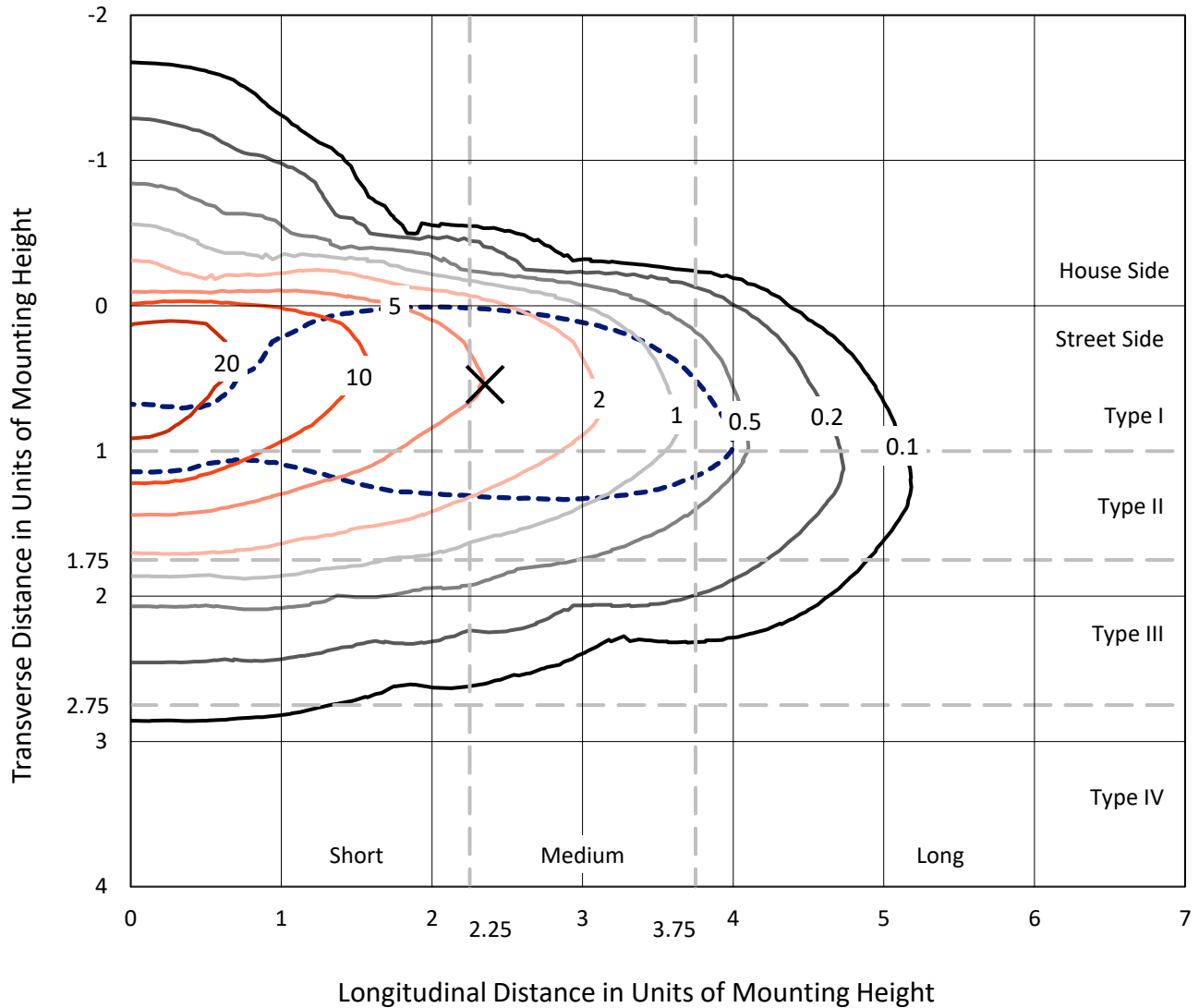
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

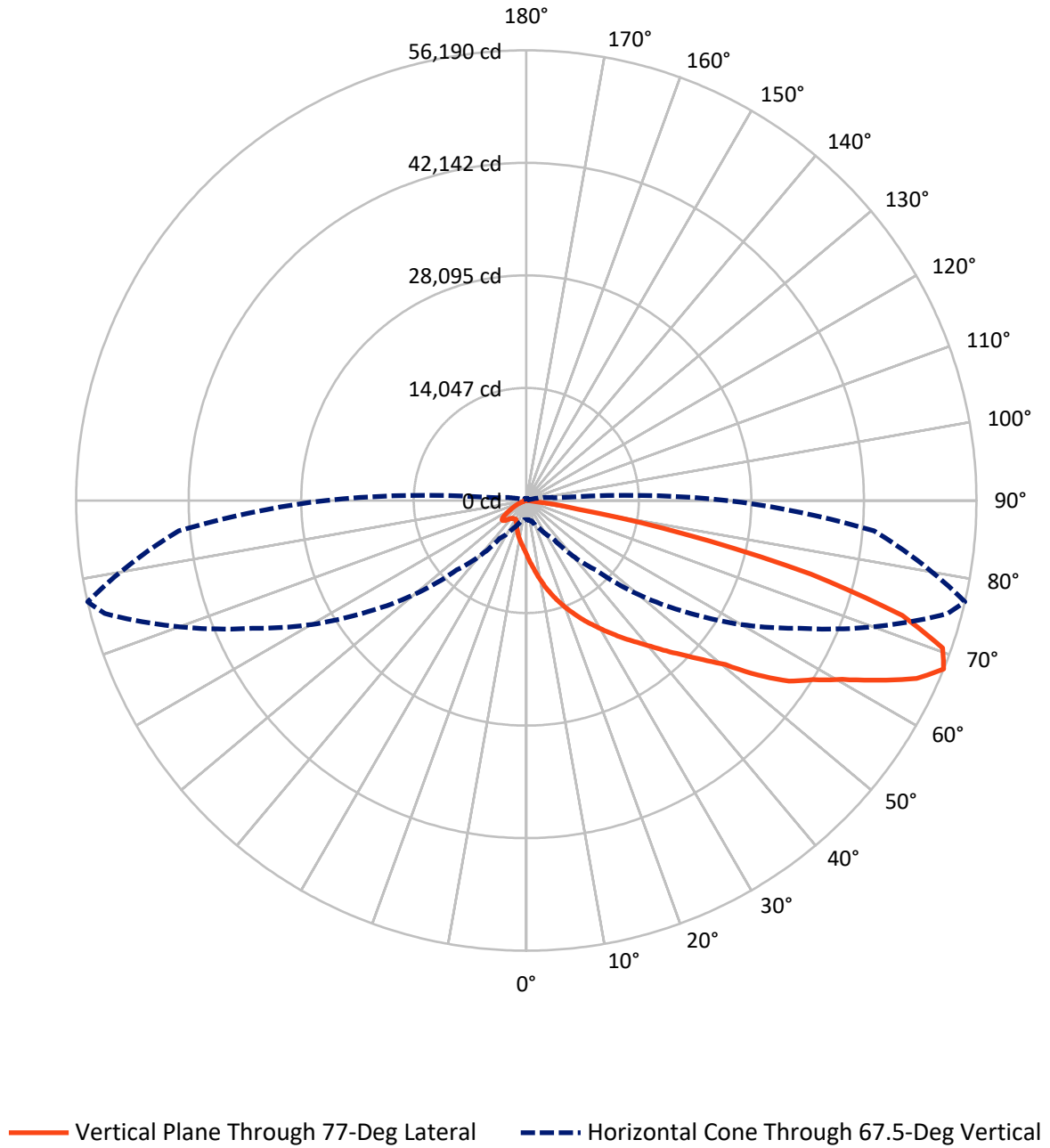
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.3 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	4311.9	0.0	4311.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	54297.1	0.0	54297.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	58609.0	0.0	58609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.8	1.2
10°-20°	2415.6	4.1
20°-30°	4661.5	8.0
30°-40°	8092.7	13.8
40°-50°	11750.1	20.0
50°-60°	13493.6	23.0
60°-70°	11714.9	20.0
70°-80°	5517.9	9.4
80°-90°	272.9	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°	58609.0	100.0
0°-180°	58609.0	100.0

Coefficient of Utilization



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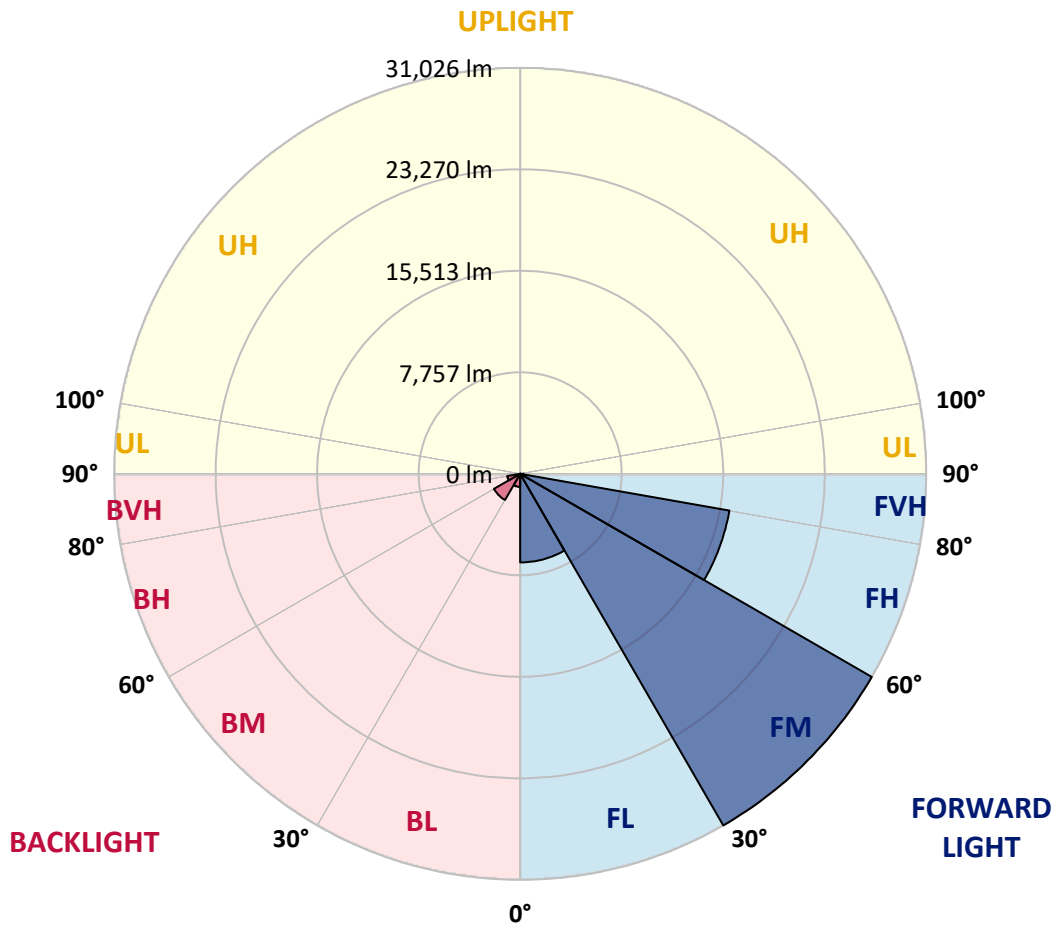
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6768.7	11.5			
FM (30°-60°)	31026.0	52.9			
FH (60°-80°)	16234.5	27.7			G5
FVH (80°-90°)	267.9	0.5			G3/500
BL (0°-30°)	998.3	1.7	B2/1000		
BM (30°-60°)	2310.4	3.9	B2/2500		
BH (60°-80°)	998.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	5.0	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5
2.5°	9357.1	9415.3	9331.6	9171.4	8931.2	8774.7	8392.6	8032.3	7631.9	7504.6
5°	11406.1	11457.0	11362.4	11187.7	10867.4	10561.7	10059.5	9306.1	8523.6	8272.5
7.5°	12923.7	12952.8	12916.4	12756.3	12450.6	12104.8	11544.4	10652.7	9491.7	9215.1
10°	14015.6	14110.2	14099.3	14037.4	13833.6	13553.4	12956.5	11941.1	10576.3	10219.6
12.5°	14739.8	14845.4	14907.2	15045.5	15034.6	14856.3	14332.2	13258.6	11657.2	11238.7
15°	14950.9	15063.7	15300.3	15620.6	15904.4	15995.4	15627.8	14550.6	12847.3	12312.3
17.5°	14830.8	15005.5	15289.4	15795.3	16417.6	16828.9	16788.8	15798.9	13928.2	13316.8
20°	15096.5	15263.9	15485.9	15911.7	16636.0	17382.1	17680.5	16992.6	15001.9	14361.3
22.5°	16566.8	16537.7	16559.5	16628.7	17061.8	17800.6	18415.7	18077.2	16064.6	15409.5
25°	18896.1	18765.1	18543.1	18168.2	18059.0	18415.7	19056.2	19038.0	17185.5	16483.1
27.5°	21567.4	21545.6	21025.2	20122.6	19613.1	19474.8	19780.5	19973.4	18295.6	17545.8
30°	24126.0	24184.2	23481.8	22477.3	21542.0	20999.7	20723.1	20861.4	19423.8	18692.3
32.5°	26353.3	26415.2	25650.9	24475.4	23318.0	22662.9	22080.6	21738.5	20653.9	19856.9
35°	28234.9	28296.8	27419.7	26120.4	24886.6	24293.4	23634.7	22699.3	21891.4	21148.9
37.5°	29916.4	29898.2	28722.6	27412.4	26200.5	25731.0	25385.2	23882.1	23165.2	22448.2
40°	30909.9	30986.4	29981.9	28537.0	27361.5	27019.4	26997.5	25348.8	24635.5	23940.4
42.5°	31201.1	31335.8	30607.9	29421.4	28355.0	27983.8	28555.2	26935.7	26346.1	25669.1
45°	30677.0	30808.0	30476.8	29654.3	29032.0	28791.8	29894.5	28580.7	28173.1	27503.4
47.5°	29148.4	29312.2	29392.3	29217.6	29210.3	29454.2	31095.6	30313.1	30342.2	29658.0
50°	26189.6	26466.2	27201.3	27820.0	28777.2	29978.2	32263.8	32191.0	32787.9	32198.3
52.5°	20810.4	21203.5	23736.6	25428.9	27579.8	29880.0	33548.6	35204.5	37078.8	36216.3
55°	16723.3	16723.3	18783.3	21949.6	25243.3	29232.2	34109.0	37162.5	40001.3	39797.5
57.5°	13633.4	13797.2	15111.0	17909.8	21862.2	27689.0	34454.8	38392.7	42356.0	42206.8
60°	8414.4	8767.5	11249.6	14011.9	18015.3	24941.2	34236.4	39637.4	45213.0	45333.1
62.5°	4738.6	4869.6	5976.0	10081.3	14008.3	21247.2	32565.9	40332.5	48867.0	49376.6
65°	3271.9	3337.4	3763.2	6274.4	9710.1	16916.2	29301.3	39899.4	52528.3	53558.3
67.5°	2376.6	2409.3	2675.0	3832.4	5761.3	12265.0	24184.2	37715.7	54468.2	56189.6
70°	1827.0	1848.8	2041.7	2518.5	3402.9	7570.1	17564.0	33373.9	53063.3	55119.6
72.5°	1484.9	1506.7	1656.0	1863.4	2256.5	4476.5	10645.4	27103.1	46861.7	49081.8
75°	1252.0	1281.1	1415.8	1550.4	1768.8	2875.2	4993.3	18874.2	35240.9	36696.7
77.5°	695.1	640.5	1150.1	1284.7	1492.2	1819.7	2336.5	11107.6	19736.8	20140.8
80°	433.1	447.7	913.5	1033.6	1146.4	917.1	1070.0	4276.4	6842.2	6500.1
82.5°	25.5	58.2	702.4	746.1	786.1	393.1	404.0	1452.1	1648.7	1514.0
85°	0.0	0.0	320.3	258.4	273.0	112.8	116.5	338.5	222.0	240.2
87.5°	0.0	0.0	0.0	7.3	0.0	10.9	21.8	29.1	10.9	14.6
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°
6758.5	0°	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5	6758.5
7104.2	2.5°	6849.5	6594.7	6077.9	5572.0	5160.8	4778.6	4505.7	4247.3	4116.2	4109.0
7562.8	5°	7056.9	6521.9	5488.3	4574.8	3839.6	3250.0	2867.9	2594.9	2456.6	2409.3
8126.9	7.5°	7348.1	6543.8	4971.5	3701.3	2835.1	2329.3	2110.9	2023.5	1994.4	1961.7
8763.8	10°	7715.7	6594.7	4509.3	2980.7	2234.6	1979.9	1892.5	1856.1	1834.3	1812.5
9480.8	12.5°	8126.9	6642.0	4050.7	2474.8	1965.3	1834.3	1772.4	1728.7	1699.6	1674.2
10216.0	15°	8527.3	6671.1	3574.0	2121.8	1827.0	1721.5	1656.0	1608.6	1568.6	1539.5
10936.6	17.5°	8924.0	6711.2	3126.3	1910.7	1714.2	1608.6	1543.1	1484.9	1452.1	1419.4
11693.6	20°	9364.3	6703.9	2704.1	1761.5	1601.4	1495.8	1426.7	1372.1	1339.3	1302.9
12494.3	22.5°	9772.0	6667.5	2332.9	1634.1	1484.9	1383.0	1306.6	1252.0	1219.2	1190.1
13313.1	25°	10241.4	6638.4	2023.5	1517.7	1375.7	1273.8	1190.1	1139.2	1102.8	1077.3
14135.7	27.5°	10692.7	6594.7	1797.9	1412.1	1270.2	1171.9	1091.8	1033.6	1000.9	982.7
14983.7	30°	11136.8	6583.8	1714.2	1310.2	1175.5	1077.3	997.2	942.6	917.1	909.9
15915.4	32.5°	11671.8	6612.9	1750.6	1273.8	1088.2	989.9	913.5	873.5	848.0	848.0
16952.6	35°	12243.1	6605.6	1805.2	1306.6	1030.0	902.6	844.4	818.9	793.4	793.4
18102.7	37.5°	12960.1	6616.5	1848.8	1361.2	1008.1	829.8	797.0	764.3	749.7	749.7
19361.9	40°	14030.1	6976.8	1827.0	1408.5	1000.9	778.8	713.3	702.4	691.5	691.5
20785.0	42.5°	15340.3	7759.3	1856.1	1412.1	997.2	742.5	655.1	676.9	651.5	647.8
22390.0	45°	16774.3	8614.6	2041.7	1335.7	993.6	724.3	626.0	651.5	611.4	611.4
24249.7	47.5°	18197.3	9462.6	2231.0	1226.5	982.7	720.6	600.5	586.0	575.0	578.7
26673.6	50°	20159.0	10154.1	2303.8	1077.3	957.2	713.3	553.2	556.8	549.6	556.8
30091.1	52.5°	22295.3	10299.7	2216.4	909.9	884.4	691.5	520.4	535.0	531.4	538.6
32496.7	55°	23627.4	10143.2	1830.6	757.0	771.6	604.2	487.7	516.8	516.8	516.8
34847.8	57.5°	25003.1	9477.2	1299.3	615.1	640.5	495.0	458.6	498.6	495.0	491.3
37679.3	60°	25993.0	8399.9	855.3	505.9	509.5	407.6	425.8	469.5	465.9	447.7
40598.2	62.5°	26731.8	7209.8	549.6	429.5	389.4	367.6	389.4	425.8	411.3	371.2
43073.0	65°	26648.1	5561.1	422.2	367.6	320.3	320.3	338.5	371.2	327.6	262.0
43546.2	67.5°	25094.1	3763.2	349.4	309.4	269.3	265.7	280.2	309.4	280.2	222.0
41122.3	70°	22317.2	2460.3	280.2	240.2	214.7	196.5	225.6	265.7	236.6	178.3
35008.0	72.5°	18113.6	1499.5	211.1	174.7	156.5	127.4	178.3	218.4	189.3	131.0
24344.4	75°	11719.1	764.3	145.6	112.8	83.7	76.4	131.0	163.8	131.0	80.1
10801.9	77.5°	4483.8	320.3	80.1	51.0	43.7	36.4	72.8	98.3	54.6	18.2
2092.7	80°	862.6	134.7	40.0	25.5	21.8	14.6	10.9	7.3	0.0	0.0
371.2	82.5°	149.2	43.7	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
72.8	85°	51.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.5	87.5°	18.2	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

<u>180°</u>
6758.5
4101.7
2402.0
1954.4
1805.2
1666.9
1535.9
1415.8
1299.3
1186.5
1073.6
982.7
906.2
848.0
793.4
749.7
691.5
644.2
611.4
578.7
556.8
538.6
516.8
491.3
447.7
363.9
254.8
214.7
171.1
123.7
69.1
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