

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: P957191

Luminaire Tested: **GALN-SB9C-840-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957191
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-SB9C-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 615mA 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: 55244 lumens
Efficiency: N/A
Efficacy: 122.8 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

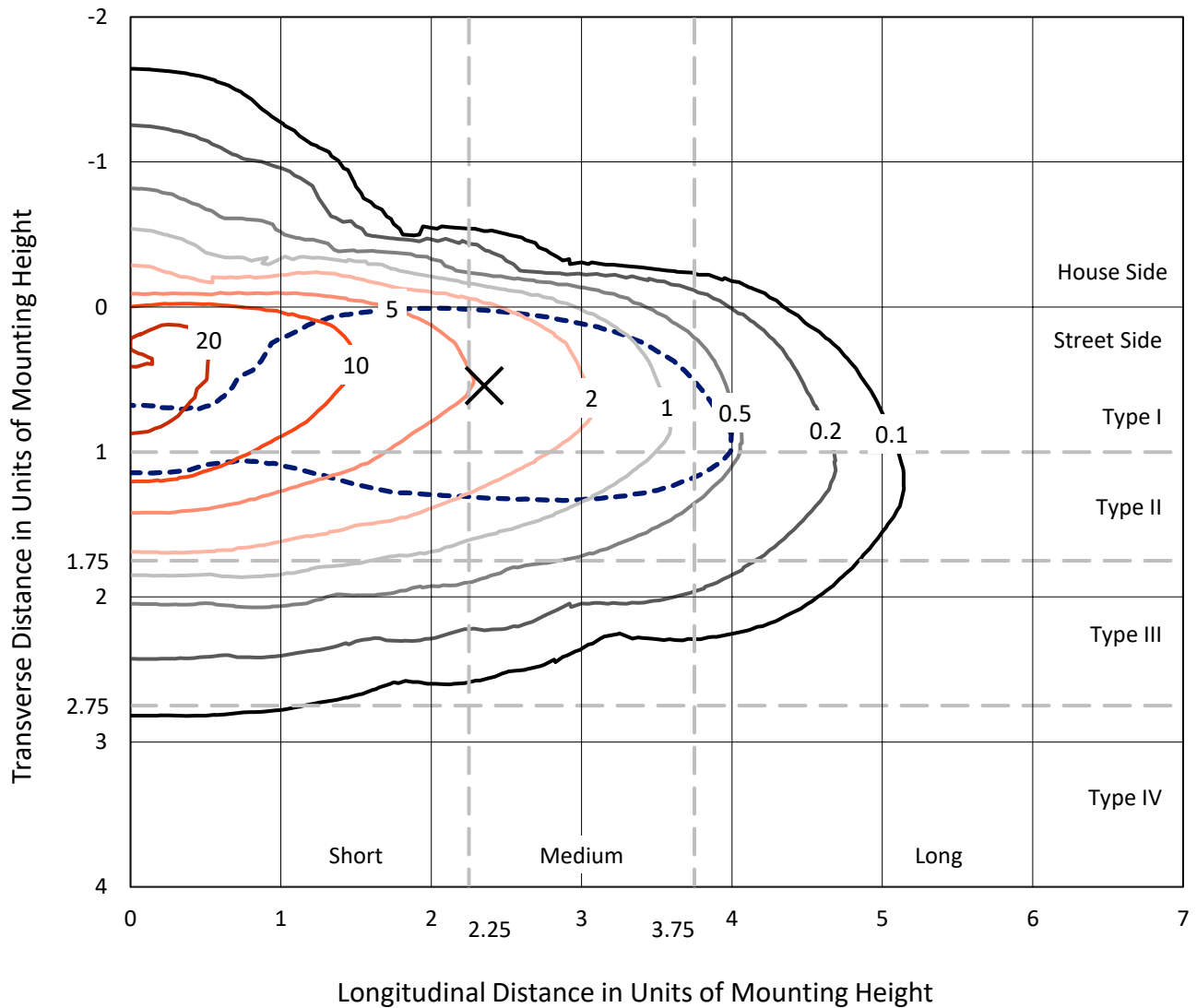
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

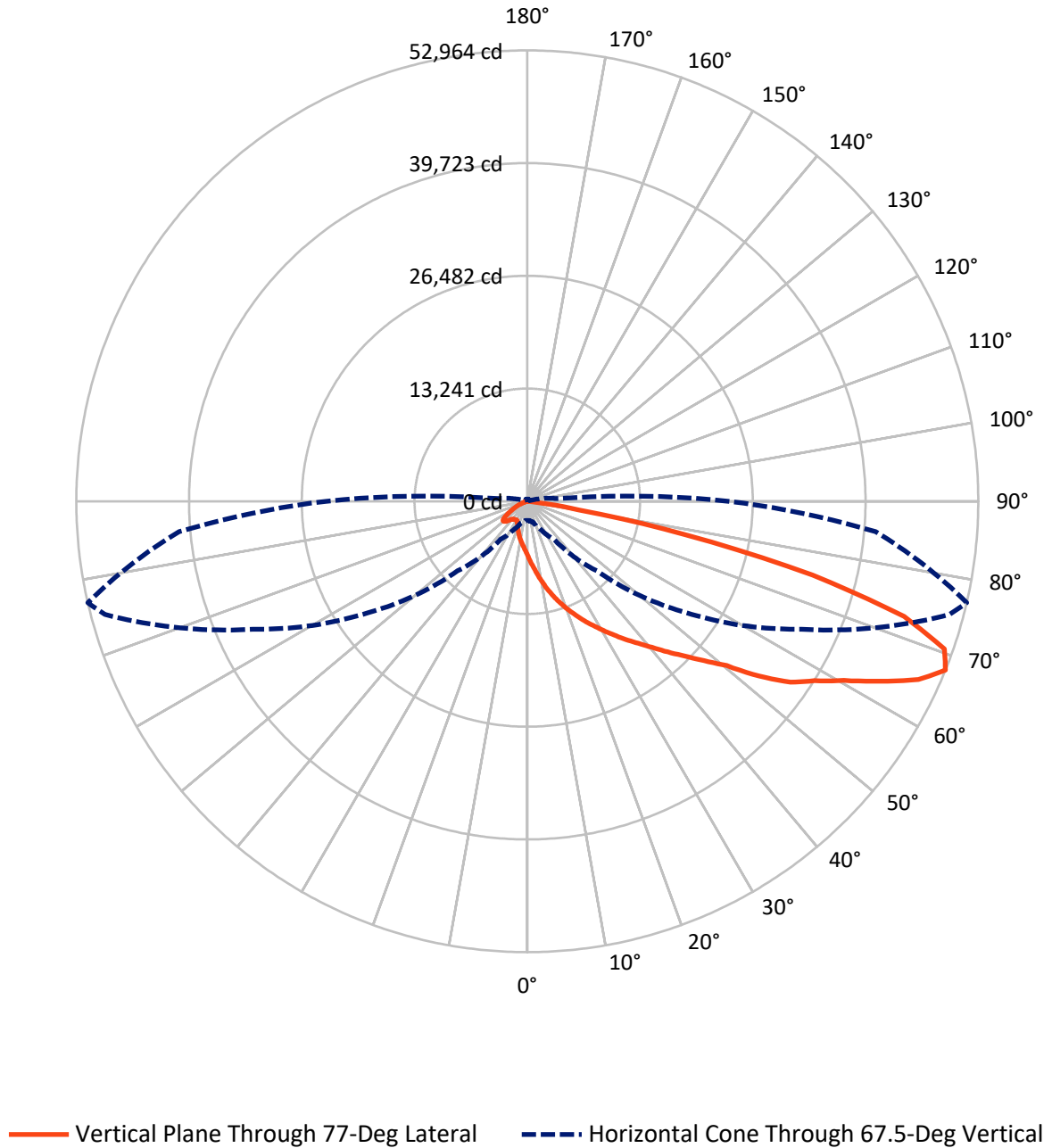
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 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	4064.3	0.0	4064.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	51179.7	0.0	51179.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	55244.0	0.0	55244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.2	1.2
10°-20°	2276.9	4.1
20°-30°	4393.9	8.0
30°-40°	7628.0	13.8
40°-50°	11075.5	20.0
50°-60°	12718.8	23.0
60°-70°	11042.3	20.0
70°-80°	5201.0	9.4
80°-90°	257.2	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°	55244.0	100.0
0°-180°	55244.0	100.0

Coefficient of Utilization



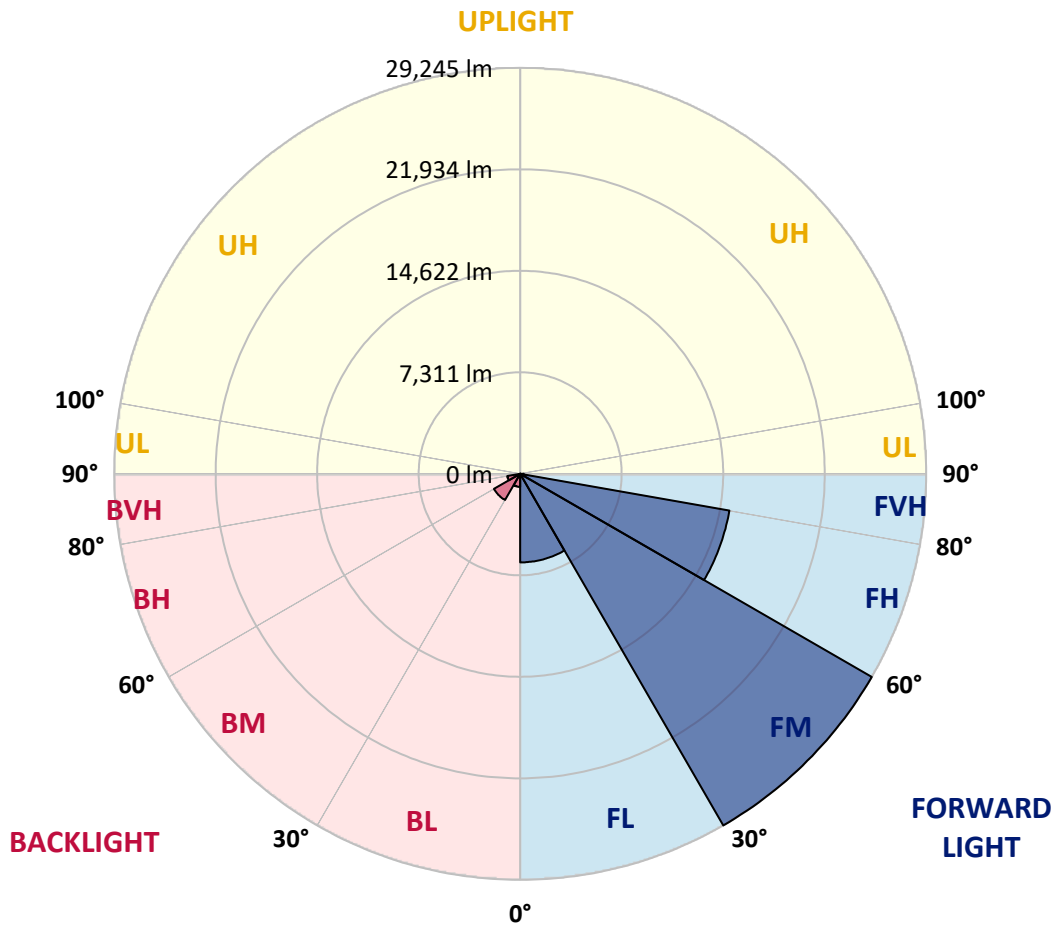
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6380.1	11.5			
FM (30°-60°)	29244.7	52.9			
FH (60°-80°)	15302.4	27.7			G5
FVH (80°-90°)	252.5	0.5			G3/500
BL (0°-30°)	941.0	1.7	B2/1000		
BM (30°-60°)	2177.7	3.9	B2/2500		
BH (60°-80°)	940.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4
2.5°	8819.8	8874.7	8795.8	8644.9	8418.5	8270.9	7910.7	7571.1	7193.8	7073.7
5°	10751.2	10799.2	10710.0	10545.4	10243.5	9955.3	9481.9	8771.8	8034.2	7797.5
7.5°	12181.7	12209.2	12174.9	12023.9	11735.8	11409.9	10881.6	10041.1	8946.8	8686.0
10°	13210.9	13300.1	13289.8	13231.5	13039.3	12775.2	12212.6	11255.5	9969.0	9632.9
12.5°	13893.5	13993.0	14051.3	14181.7	14171.4	14003.3	13509.3	12497.3	10987.9	10593.4
15°	14092.5	14198.9	14421.8	14723.7	14991.3	15077.1	14730.6	13715.2	12109.7	11605.4
17.5°	13979.3	14144.0	14411.5	14888.4	15475.0	15862.6	15824.9	14891.8	13128.5	12552.2
20°	14229.7	14387.5	14596.8	14998.2	15680.8	16384.1	16665.4	16017.0	14140.5	13536.8
22.5°	15615.7	15588.2	15608.8	15674.0	16082.2	16778.6	17358.3	17039.3	15142.2	14524.8
25°	17811.2	17687.7	17478.4	17125.1	17022.2	17358.3	17962.1	17945.0	16198.8	15536.8
27.5°	20329.2	20308.6	19818.0	18967.3	18487.0	18356.6	18644.8	18826.6	17245.1	16538.5
30°	22740.8	22795.7	22133.6	21186.8	20305.2	19794.0	19533.3	19663.6	18308.6	17619.1
32.5°	24840.3	24898.6	24178.2	23070.1	21979.2	21361.7	20812.9	20490.4	19468.1	18716.8
35°	26613.8	26672.2	25845.4	24620.7	23457.8	22898.6	22277.7	21396.1	20634.5	19934.7
37.5°	28198.7	28181.6	27073.5	25838.6	24696.2	24253.7	23927.8	22511.0	21835.2	21159.3
40°	29135.3	29207.3	28260.5	26898.6	25790.5	25468.1	25447.5	23893.5	23221.1	22565.9
42.5°	29409.7	29536.6	28850.5	27732.2	26727.1	26377.1	26915.7	25389.2	24833.4	24195.3
45°	28915.7	29039.2	28727.0	27951.7	27365.1	27138.7	28178.2	26939.7	26555.5	25924.3
47.5°	27474.9	27629.3	27704.7	27540.1	27533.2	27763.1	29310.2	28572.7	28600.1	27955.2
50°	24685.9	24946.6	25639.6	26222.8	27125.0	28257.1	30411.4	30342.8	30905.4	30349.7
52.5°	19615.6	19986.1	22373.7	23968.9	25996.4	28164.4	31622.4	33183.3	34950.0	34136.9
55°	15763.2	15763.2	17704.8	20689.4	23794.0	27553.8	32150.7	35028.9	37704.7	37512.6
57.5°	12850.7	13005.0	14243.5	16881.5	20607.0	26099.3	32476.6	36188.4	39924.2	39783.6
60°	7931.3	8264.1	10603.7	13207.4	16981.0	23509.2	32270.7	37361.6	42617.1	42730.4
62.5°	4466.5	4590.0	5632.9	9502.5	13204.0	20027.3	30696.1	38016.8	46061.4	46541.6
65°	3084.0	3145.8	3547.1	5914.2	9152.6	15945.0	27619.0	37608.6	49512.5	50483.3
67.5°	2240.1	2271.0	2521.4	3612.3	5430.5	11560.8	22795.7	35550.3	51340.9	52963.5
70°	1722.1	1742.7	1924.5	2373.9	3207.5	7135.4	16555.6	31457.7	50016.7	51955.0
72.5°	1399.6	1420.2	1560.9	1756.4	2126.9	4219.5	10034.2	25547.0	44171.2	46263.8
75°	1180.1	1207.5	1334.5	1461.4	1667.2	2710.1	4706.7	17790.6	33217.6	34589.8
77.5°	655.2	603.8	1084.0	1211.0	1406.5	1715.3	2202.4	10469.9	18603.6	18984.4
80°	408.2	422.0	861.1	974.3	1080.6	864.5	1008.6	4030.8	6449.3	6126.9
82.5°	24.0	54.9	662.1	703.3	741.0	370.5	380.8	1368.8	1554.0	1427.1
85°	0.0	0.0	301.9	243.6	257.3	106.3	109.8	319.0	209.3	226.4
87.5°	0.0	0.0	0.0	6.9	0.0	10.3	20.6	27.4	10.3	13.7
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°
6370.4	0°	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4	6370.4
6696.3	2.5°	6456.2	6216.1	5728.9	5252.1	4864.5	4504.3	4247.0	4003.4	3879.9	3873.0
7128.6	5°	6651.7	6147.5	5173.2	4312.1	3619.2	3063.4	2703.2	2445.9	2315.6	2271.0
7660.3	7.5°	6926.2	6168.0	4686.1	3488.8	2672.4	2195.5	1989.7	1907.4	1879.9	1849.0
8260.7	10°	7272.7	6216.1	4250.4	2809.6	2106.3	1866.2	1783.9	1749.6	1729.0	1708.4
8936.5	12.5°	7660.3	6260.7	3818.2	2332.7	1852.5	1729.0	1670.7	1629.5	1602.0	1578.0
9629.4	15°	8037.7	6288.1	3368.8	2000.0	1722.1	1622.6	1560.9	1516.3	1478.5	1451.1
10308.7	17.5°	8411.6	6325.8	2946.8	1801.0	1615.8	1516.3	1454.5	1399.6	1368.8	1337.9
11022.2	20°	8826.7	6319.0	2548.9	1660.4	1509.4	1409.9	1344.8	1293.3	1262.4	1228.1
11776.9	22.5°	9210.9	6284.7	2199.0	1540.3	1399.6	1303.6	1231.6	1180.1	1149.2	1121.8
12548.8	25°	9653.4	6257.2	1907.4	1430.5	1296.7	1200.7	1121.8	1073.7	1039.4	1015.4
13324.1	27.5°	10078.8	6216.1	1694.7	1331.0	1197.2	1104.6	1029.2	974.3	943.4	926.2
14123.4	30°	10497.3	6205.8	1615.8	1235.0	1108.1	1015.4	940.0	888.5	864.5	857.6
15001.6	32.5°	11001.6	6233.2	1650.1	1200.7	1025.7	933.1	861.1	823.3	799.3	799.3
15979.3	35°	11540.2	6226.4	1701.5	1231.6	970.8	850.8	795.9	771.9	747.8	747.8
17063.3	37.5°	12216.0	6236.7	1742.7	1283.0	950.2	782.2	751.3	720.4	706.7	706.7
18250.3	40°	13224.6	6576.3	1722.1	1327.6	943.4	734.1	672.4	662.1	651.8	651.8
19591.6	42.5°	14459.6	7313.8	1749.6	1331.0	940.0	699.8	617.5	638.1	614.1	610.6
21104.5	45°	15811.2	8120.0	1924.5	1259.0	936.5	682.7	590.0	614.1	576.3	576.3
22857.4	47.5°	17152.5	8919.3	2102.9	1156.1	926.2	679.2	566.0	552.3	542.0	545.5
25142.2	50°	19001.6	9571.1	2171.5	1015.4	902.2	672.4	521.4	524.9	518.0	524.9
28363.4	52.5°	21015.3	9708.3	2089.2	857.6	833.6	651.8	490.6	504.3	500.9	507.7
30631.0	55°	22270.8	9560.8	1725.5	713.5	727.3	569.5	459.7	487.1	487.1	487.1
32847.1	57.5°	23567.6	8933.0	1224.7	579.8	603.8	466.5	432.2	470.0	466.5	463.1
35516.0	60°	24500.7	7917.6	806.2	476.8	480.3	384.2	401.4	442.5	439.1	422.0
38267.3	62.5°	25197.0	6795.8	518.0	404.8	367.1	346.5	367.1	401.4	387.6	349.9
40600.0	65°	25118.1	5241.8	397.9	346.5	301.9	301.9	319.0	349.9	308.7	247.0
41046.0	67.5°	23653.3	3547.1	329.3	291.6	253.9	250.4	264.1	291.6	264.1	209.3
38761.3	70°	21035.8	2319.0	264.1	226.4	202.4	185.2	212.7	250.4	223.0	168.1
32998.0	72.5°	17073.6	1413.4	199.0	164.7	147.5	120.1	168.1	205.8	178.4	123.5
22946.6	75°	11046.2	720.4	137.2	106.3	78.9	72.0	123.5	154.4	123.5	75.5
10181.7	77.5°	4226.4	301.9	75.5	48.0	41.2	34.3	68.6	92.6	51.5	17.2
1972.5	80°	813.0	126.9	37.7	24.0	20.6	13.7	10.3	6.9	0.0	0.0
349.9	82.5°	140.7	41.2	13.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
68.6	85°	48.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.0	87.5°	17.2	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>
6370.4
3866.2
2264.1
1842.2
1701.5
1571.2
1447.7
1334.5
1224.7
1118.3
1012.0
926.2
854.2
799.3
747.8
706.7
651.8
607.2
576.3
545.5
524.9
507.7
487.1
463.1
422.0
343.1
240.1
202.4
161.2
116.6
65.2
13.7
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