

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: P957590

Luminaire Tested: **GALN-SB9D-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957590
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-SB9D-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 2700K, 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: 47768 lumens
Efficiency: N/A
Efficacy: 72.6 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

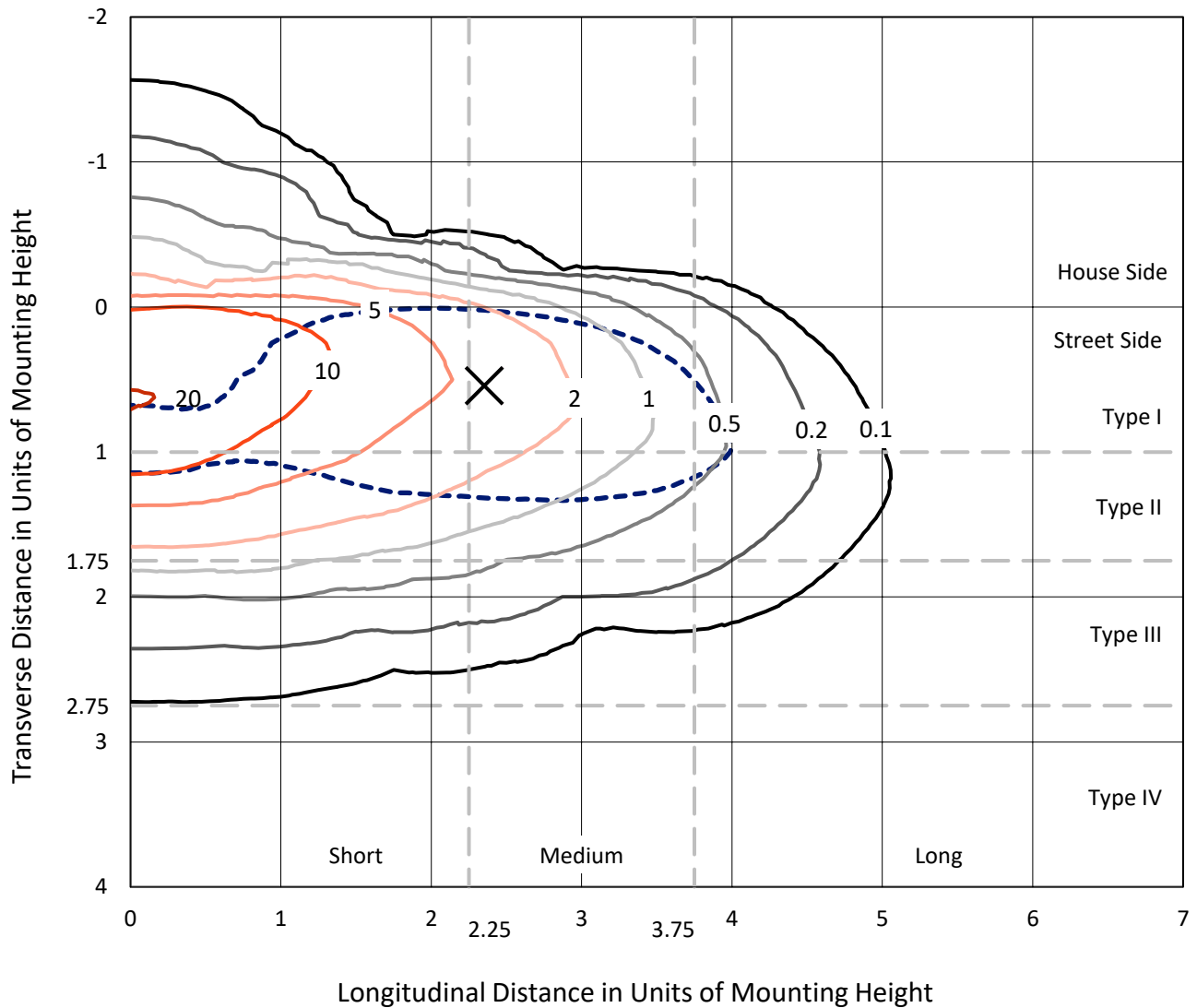
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

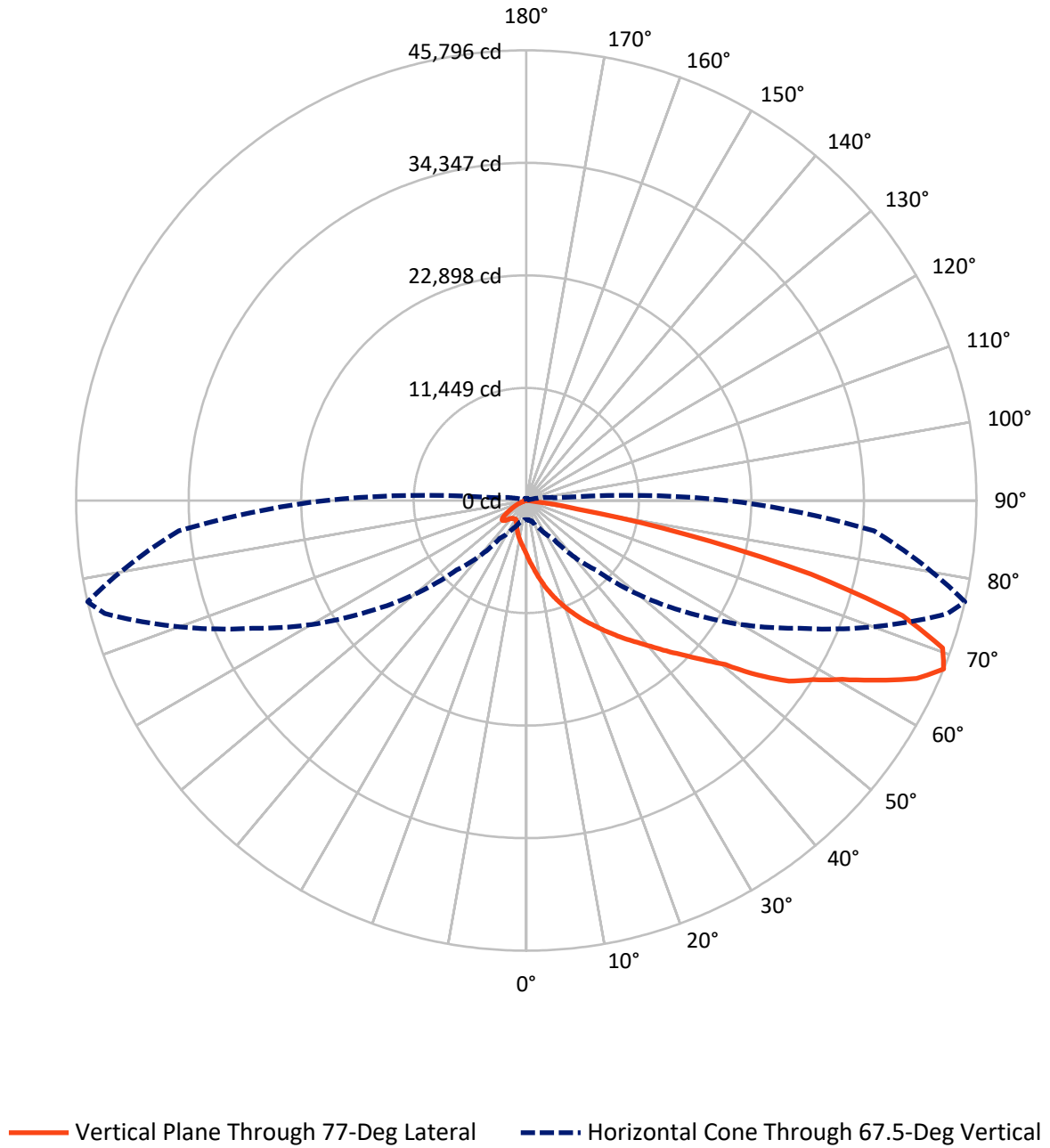
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	3514.3	0.0	3514.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	44253.7	0.0	44253.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	47768.0	0.0	47768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.2	1.2
10°-20°	1968.8	4.1
20°-30°	3799.3	8.0
30°-40°	6595.8	13.8
40°-50°	9576.7	20.0
50°-60°	10997.6	23.0
60°-70°	9548.0	20.0
70°-80°	4497.2	9.4
80°-90°	222.4	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°	47768.0	100.0
0°-180°	47768.0	100.0

Coefficient of Utilization



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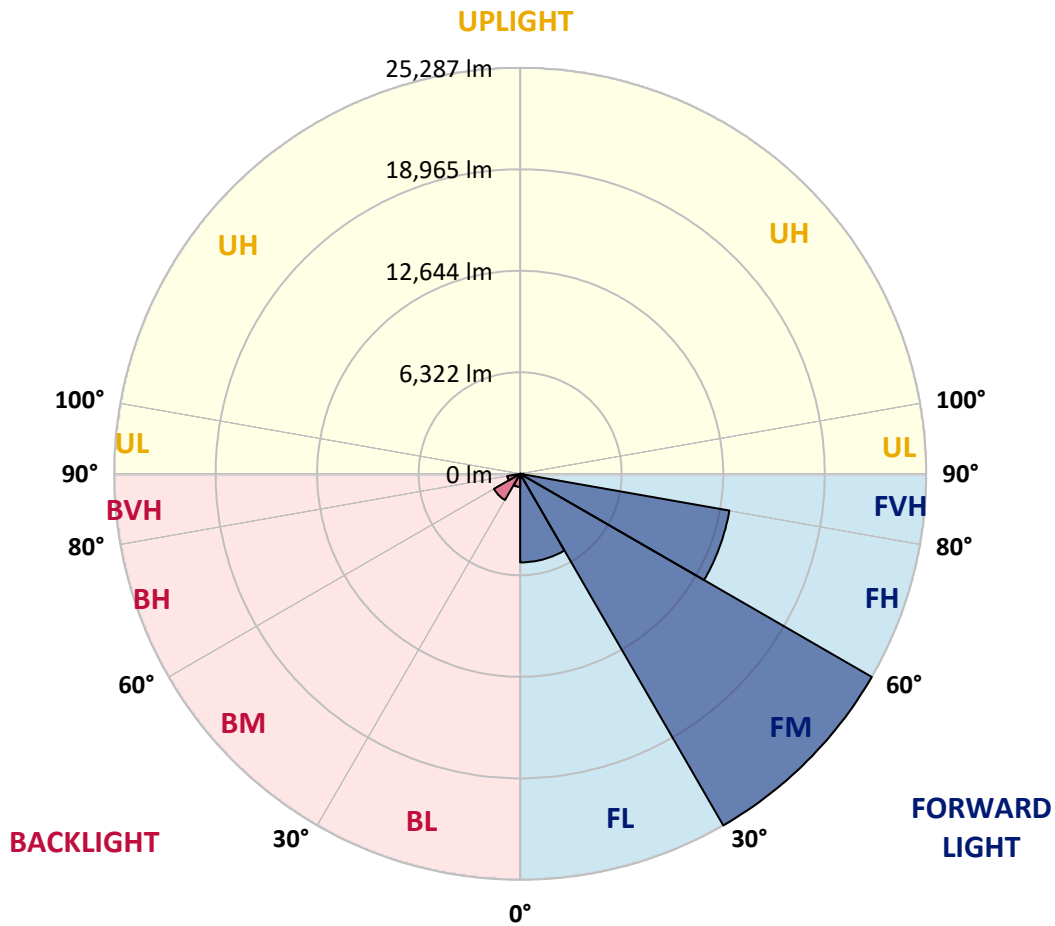
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5516.7	11.5			
FM (30°-60°)	25287.1	52.9			
FH (60°-80°)	13231.6	27.7			G5
FVH (80°-90°)	218.3	0.5			G2/225
BL (0°-30°)	813.6	1.7	B2/1000		
BM (30°-60°)	1883.0	3.9	B2/2500		
BH (60°-80°)	813.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4
2.5°	7626.3	7673.7	7605.5	7475.0	7279.2	7151.7	6840.2	6546.5	6220.3	6116.4
5°	9296.3	9337.8	9260.7	9118.3	8857.3	8608.1	8198.8	7584.7	6947.0	6742.3
7.5°	10533.2	10556.9	10527.3	10396.8	10147.6	9865.8	9409.0	8682.3	7736.0	7510.6
10°	11423.1	11500.2	11491.3	11440.9	11274.8	11046.4	10559.9	9732.3	8620.0	8329.3
12.5°	12013.4	12099.4	12149.8	12262.5	12253.6	12108.3	11681.1	10806.1	9500.9	9159.8
15°	12185.4	12277.4	12470.2	12731.2	12962.6	13036.7	12737.1	11859.1	10470.9	10034.9
17.5°	12087.5	12229.9	12461.3	12873.6	13380.8	13716.0	13683.4	12876.6	11351.9	10853.6
20°	12304.1	12440.5	12621.5	12968.5	13558.8	14166.9	14410.1	13849.5	12226.9	11704.9
22.5°	13502.4	13478.7	13496.5	13552.9	13905.8	14508.0	15009.3	14733.4	13093.1	12559.2
25°	15400.8	15294.1	15113.1	14807.6	14718.6	15009.3	15531.4	15516.5	14006.7	13434.2
27.5°	17578.1	17560.3	17136.1	16400.5	15985.2	15872.5	16121.6	16278.9	14911.4	14300.4
30°	19663.4	19710.8	19138.3	18319.6	17557.3	17115.3	16889.9	17002.6	15831.0	15234.7
32.5°	21478.7	21529.1	20906.2	19948.1	19004.9	18470.9	17996.3	17717.5	16833.5	16183.9
35°	23012.3	23062.7	22347.8	21288.9	20283.3	19799.8	19262.9	18500.6	17842.1	17237.0
37.5°	24382.7	24367.9	23409.8	22341.9	21354.1	20971.5	20689.7	19464.6	18880.3	18295.9
40°	25192.5	25254.8	24436.1	23258.5	22300.4	22021.5	22003.7	20660.0	20078.6	19512.1
42.5°	25429.8	25539.5	24946.3	23979.3	23110.2	22807.6	23273.3	21953.3	21472.8	20921.1
45°	25002.6	25109.4	24839.5	24169.1	23661.9	23466.1	24364.9	23294.1	22961.9	22416.1
47.5°	23756.8	23890.3	23955.5	23813.2	23807.2	24006.0	25343.8	24706.0	24729.7	24172.1
50°	21345.2	21570.7	22169.9	22674.1	23454.3	24433.1	26295.9	26236.6	26723.1	26242.5
52.5°	16961.1	17281.5	19346.0	20725.3	22478.3	24353.0	27343.0	28692.7	30220.3	29517.3
55°	13630.0	13630.0	15308.9	17889.5	20574.0	23825.0	27799.8	30288.5	32602.2	32436.1
57.5°	11111.6	11245.1	12315.9	14597.0	17818.3	22567.3	28081.6	31291.1	34521.4	34399.8
60°	6858.0	7145.7	9168.7	11420.1	14683.0	20327.8	27903.6	32305.6	36849.9	36947.8
62.5°	3862.1	3968.9	4870.6	8216.6	11417.2	17317.1	26542.1	32872.1	39828.0	40243.3
65°	2666.7	2720.1	3067.1	5113.8	7914.0	13787.2	23881.4	32519.2	42812.1	43651.5
67.5°	1937.0	1963.7	2180.2	3123.5	4695.6	9996.3	19710.8	30739.4	44393.1	45796.2
70°	1489.1	1506.9	1664.1	2052.7	2773.5	6169.8	14315.2	27200.6	43248.1	44924.1
72.5°	1210.2	1228.0	1349.7	1518.7	1839.1	3648.5	8676.3	22089.8	38193.6	40003.0
75°	1020.4	1044.1	1153.9	1263.6	1441.6	2343.3	4069.7	15383.0	28722.3	29908.8
77.5°	566.6	522.1	937.3	1047.1	1216.2	1483.1	1904.3	9053.0	16086.1	16415.3
80°	353.0	364.9	744.5	842.4	934.4	747.5	872.1	3485.4	5576.6	5297.7
82.5°	20.8	47.5	572.5	608.1	640.7	320.4	329.3	1183.5	1343.7	1234.0
85°	0.0	0.0	261.0	210.6	222.5	92.0	94.9	275.9	180.9	195.8
87.5°	0.0	0.0	0.0	5.9	0.0	8.9	17.8	23.7	8.9	11.9
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°
5508.4	0°	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4	5508.4
5790.1	2.5°	5582.5	5374.9	4953.7	4541.4	4206.2	3894.7	3672.2	3461.6	3354.8	3348.9
6163.9	5°	5751.6	5315.5	4473.1	3728.6	3129.4	2648.9	2337.4	2114.9	2002.2	1963.7
6623.7	7.5°	5988.9	5333.3	4051.9	3016.7	2310.7	1898.4	1720.4	1649.2	1625.5	1598.8
7142.8	10°	6288.5	5374.9	3675.2	2429.4	1821.3	1613.6	1542.5	1512.8	1495.0	1477.2
7727.1	12.5°	6623.7	5413.4	3301.5	2017.1	1601.8	1495.0	1444.6	1409.0	1385.2	1364.5
8326.3	15°	6950.0	5437.2	2912.9	1729.3	1489.1	1403.0	1349.7	1311.1	1278.5	1254.7
8913.6	17.5°	7273.3	5469.8	2548.0	1557.3	1397.1	1311.1	1257.7	1210.2	1183.5	1156.8
9530.6	20°	7632.2	5463.9	2203.9	1435.7	1305.2	1219.1	1162.8	1118.3	1091.6	1061.9
10183.2	22.5°	7964.4	5434.2	1901.4	1331.9	1210.2	1127.2	1064.9	1020.4	993.7	970.0
10850.6	25°	8347.1	5410.5	1649.2	1236.9	1121.2	1038.2	970.0	928.4	898.8	878.0
11521.0	27.5°	8714.9	5374.9	1465.3	1150.9	1035.2	955.1	889.9	842.4	815.7	800.9
12212.1	30°	9076.8	5366.0	1397.1	1067.9	958.1	878.0	812.8	768.3	747.5	741.6
12971.5	32.5°	9512.8	5389.7	1426.8	1038.2	886.9	806.8	744.5	711.9	691.1	691.1
13816.9	35°	9978.5	5383.8	1471.3	1064.9	839.5	735.6	688.2	667.4	646.6	646.6
14754.2	37.5°	10562.9	5392.7	1506.9	1109.4	821.7	676.3	649.6	622.9	611.1	611.1
15780.5	40°	11434.9	5686.3	1489.1	1147.9	815.7	634.8	581.4	572.5	563.6	563.6
16940.3	42.5°	12502.8	6324.1	1512.8	1150.9	812.8	605.1	533.9	551.7	531.0	528.0
18248.5	45°	13671.5	7021.1	1664.1	1088.6	809.8	590.3	510.2	531.0	498.3	498.3
19764.2	47.5°	14831.3	7712.3	1818.3	999.6	800.9	587.3	489.4	477.6	468.7	471.6
21739.8	50°	16430.1	8275.9	1877.6	878.0	780.1	581.4	450.9	453.8	447.9	453.8
24525.1	52.5°	18171.3	8394.5	1806.5	741.6	720.8	563.6	424.2	436.0	433.1	439.0
26485.8	55°	19257.0	8267.0	1492.0	617.0	628.8	492.4	397.5	421.2	421.2	421.2
28402.0	57.5°	20378.2	7724.2	1059.0	501.3	522.1	403.4	373.7	406.4	403.4	400.4
30709.7	60°	21185.1	6846.1	697.1	412.3	415.3	332.2	347.1	382.6	379.7	364.9
33088.7	62.5°	21787.2	5876.2	447.9	350.0	317.4	299.6	317.4	347.1	335.2	302.6
35105.7	65°	21719.0	4532.5	344.1	299.6	261.0	261.0	275.9	302.6	267.0	213.6
35491.4	67.5°	20452.4	3067.1	284.8	252.1	219.5	216.5	228.4	252.1	228.4	180.9
33515.8	70°	18189.1	2005.2	228.4	195.8	175.0	160.2	183.9	216.5	192.8	145.3
28532.5	72.5°	14763.1	1222.1	172.0	142.4	127.5	103.8	145.3	178.0	154.2	106.8
19841.3	75°	9551.4	622.9	118.7	92.0	68.2	62.3	106.8	133.5	106.8	65.3
8803.9	77.5°	3654.4	261.0	65.3	41.5	35.6	29.7	59.3	80.1	44.5	14.8
1705.6	80°	703.0	109.8	32.6	20.8	17.8	11.9	8.9	5.9	0.0	0.0
302.6	82.5°	121.6	35.6	11.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0
59.3	85°	41.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20.8	87.5°	14.8	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°
5508.4
3343.0
1957.7
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1471.3
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1251.8
1153.9
1059.0
967.0
875.0
800.9
738.6
691.1
646.6
611.1
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