

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: P954629

Luminaire Tested: **GALN-SB7D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954629
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-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 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: 53281 lumens
Efficiency: N/A
Efficacy: 103.9 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

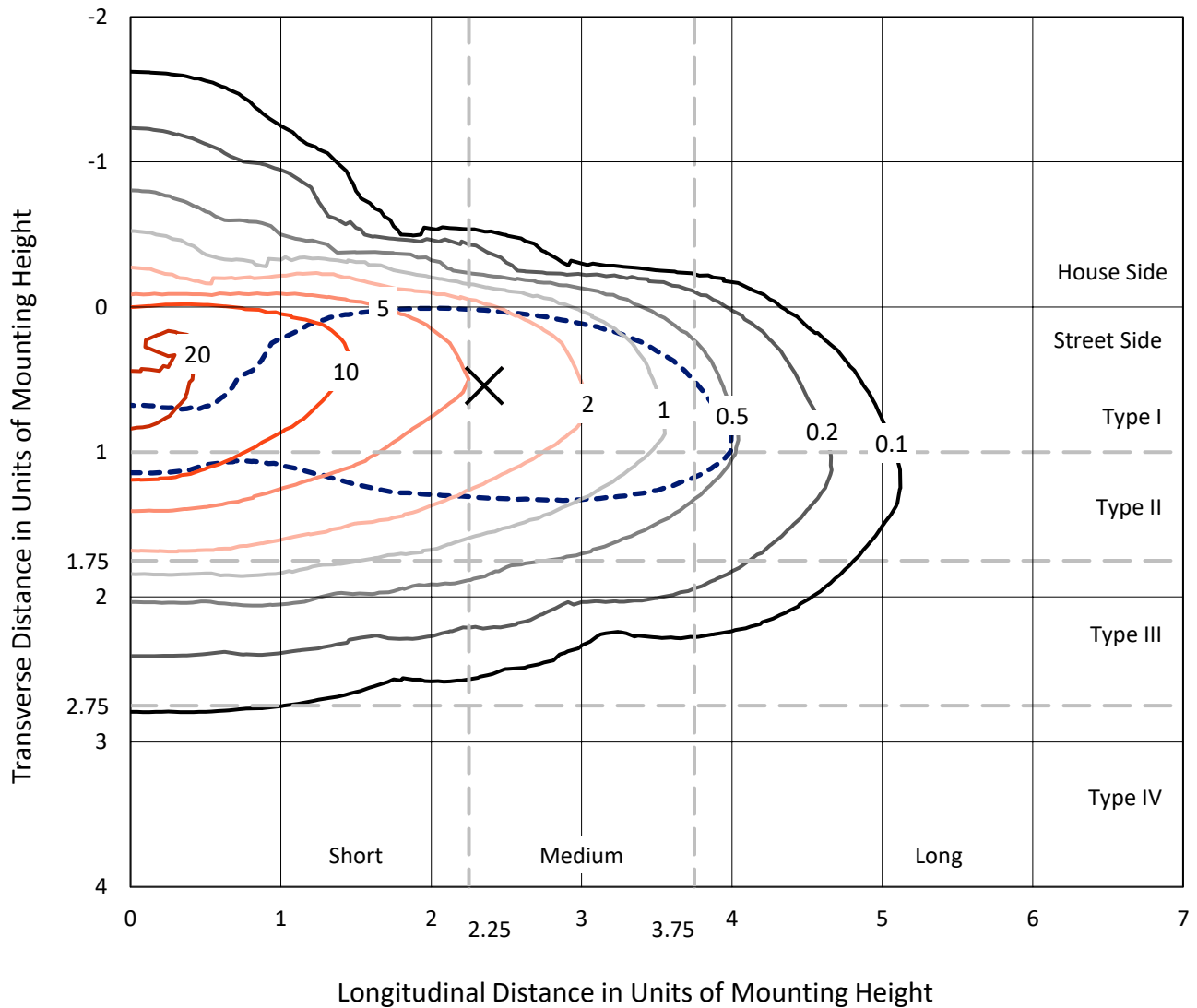
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

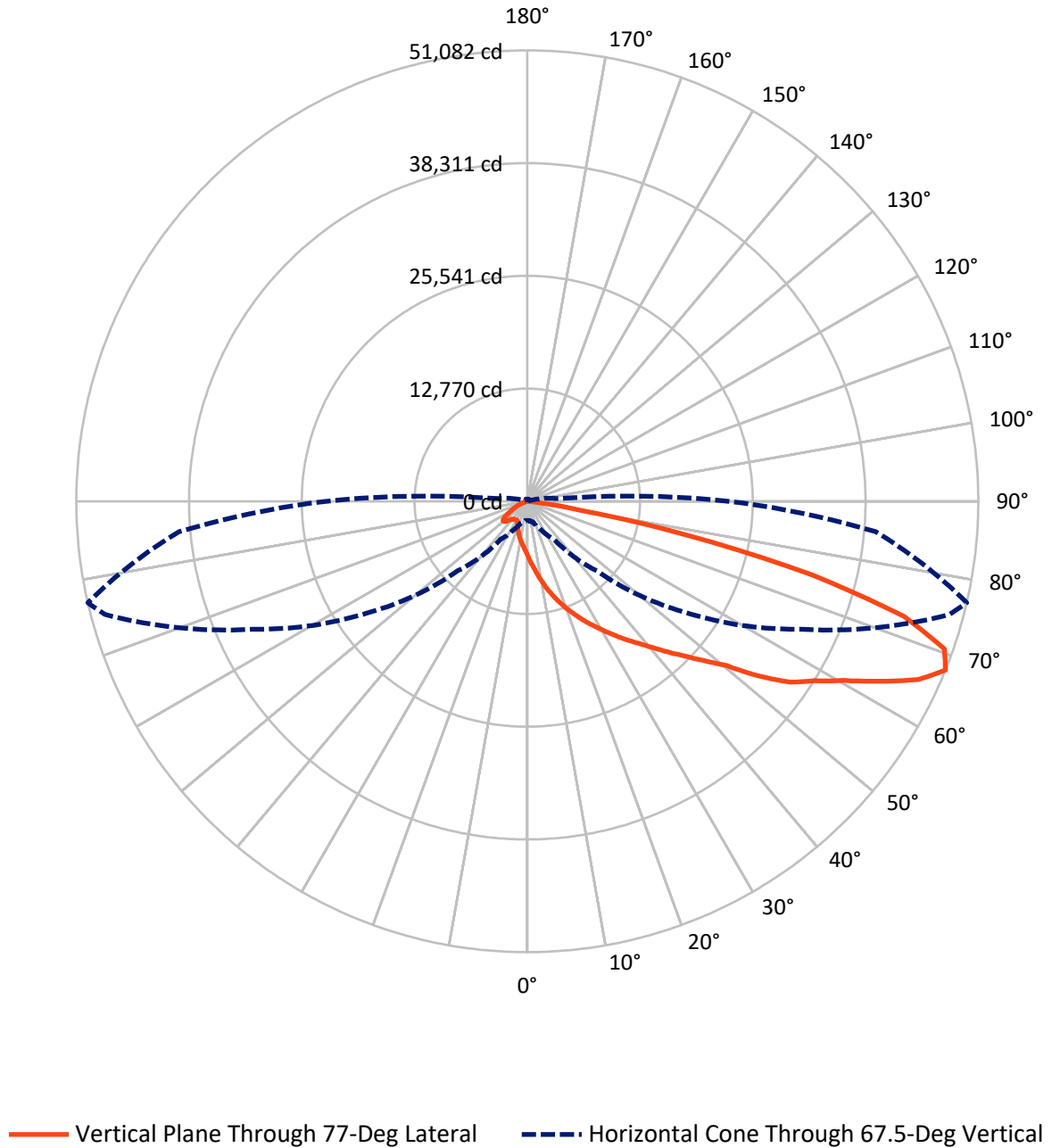
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 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	3919.9	0.0	3919.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	49361.1	0.0	49361.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	53281.0	0.0	53281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.1	1.2
10°-20°	2196.0	4.1
20°-30°	4237.8	8.0
30°-40°	7357.0	13.8
40°-50°	10682.0	20.0
50°-60°	12266.9	23.0
60°-70°	10649.9	20.0
70°-80°	5016.2	9.4
80°-90°	248.1	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°	53281.0	100.0
0°-180°	53281.0	100.0

Coefficient of Utilization



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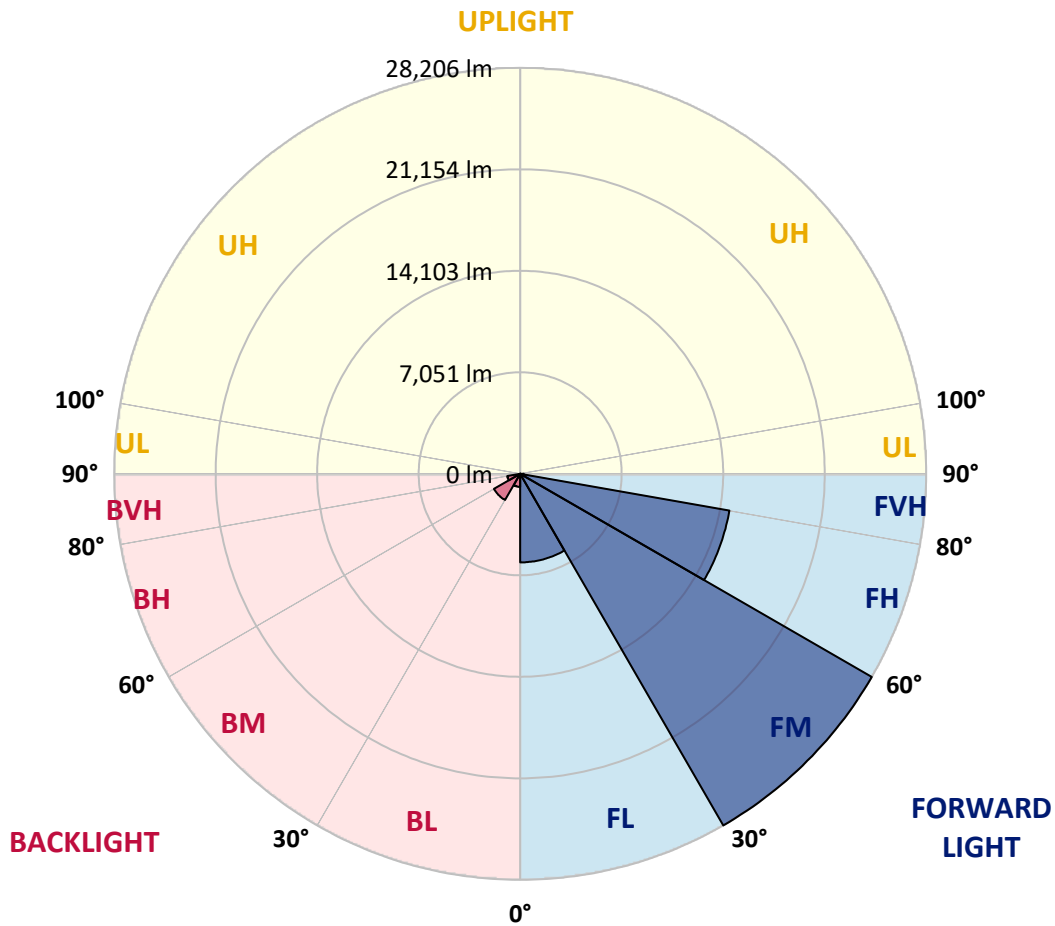
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6153.4	11.5			
FM (30°-60°)	28205.5	52.9			
FH (60°-80°)	14758.7	27.7			G5
FVH (80°-90°)	243.5	0.5			G3/500
BL (0°-30°)	907.5	1.7	B2/1000		
BM (30°-60°)	2100.3	3.9	B2/2500		
BH (60°-80°)	907.5	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.6	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°	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1
2.5°	8506.4	8559.4	8483.3	8337.7	8119.3	7977.1	7629.6	7302.1	6938.1	6822.3
5°	10369.2	10415.5	10329.5	10170.7	9879.5	9601.6	9145.0	8460.1	7748.8	7520.5
7.5°	11748.9	11775.3	11742.2	11596.7	11318.7	11004.4	10494.9	9684.3	8628.8	8377.4
10°	12741.4	12827.5	12817.5	12761.3	12576.0	12321.3	11778.6	10855.5	9614.8	9290.6
12.5°	13399.9	13495.8	13552.1	13677.8	13667.9	13505.7	13029.3	12053.3	10597.5	10217.0
15°	13591.8	13694.3	13909.4	14200.5	14458.6	14541.3	14207.2	13227.8	11679.4	11193.0
17.5°	13482.6	13641.4	13899.5	14359.4	14925.1	15299.0	15262.6	14362.7	12662.0	12106.2
20°	13724.1	13876.3	14078.1	14465.2	15123.6	15801.9	16073.2	15447.9	13638.1	13055.8
22.5°	15060.8	15034.3	15054.2	15117.0	15510.7	16182.4	16741.5	16433.8	14604.2	14008.6
25°	17178.3	17059.2	16857.4	16516.6	16417.3	16741.5	17323.9	17307.3	15623.2	14984.7
27.5°	19606.8	19587.0	19113.8	18293.3	17830.1	17704.4	17982.3	18157.6	16632.4	15950.8
30°	21932.8	21985.7	21347.1	20434.0	19583.6	19090.7	18839.2	18964.9	17658.0	16993.0
32.5°	23957.6	24013.9	23319.1	22250.4	21198.2	20602.7	20073.3	19762.3	18776.3	18051.8
35°	25668.2	25724.4	24927.0	23745.9	22624.3	22084.9	21486.1	20635.8	19901.3	19226.3
37.5°	27196.7	27180.2	26111.5	24920.4	23818.7	23391.8	23077.5	21711.1	21059.3	20407.5
40°	28100.0	28169.5	27256.3	25942.8	24874.1	24563.1	24543.2	23044.4	22396.0	21764.0
42.5°	28364.7	28487.1	27825.4	26746.8	25777.4	25439.9	25959.3	24487.0	23951.0	23335.6
45°	27888.2	28007.4	27706.3	26958.5	26392.8	26174.4	27176.9	25982.5	25611.9	25003.1
47.5°	26498.6	26647.5	26720.3	26561.5	26554.9	26776.6	28268.7	27557.4	27583.9	26961.8
50°	23808.7	24060.2	24728.5	25291.0	26161.2	27253.0	29330.8	29264.6	29807.2	29271.2
52.5°	18918.6	19275.9	21578.7	23117.2	25072.6	27163.7	30498.7	32004.2	33708.1	32923.9
55°	15203.0	15203.0	17075.7	19954.2	22948.5	26574.7	31008.3	33784.2	36364.9	36179.6
57.5°	12394.0	12542.9	13737.3	16281.7	19874.8	25171.9	31322.6	34902.5	38505.6	38369.9
60°	7649.5	7970.4	10226.9	12738.1	16377.6	22673.9	31124.1	36034.0	41102.8	41212.0
62.5°	4307.8	4426.9	5432.7	9164.8	12734.8	19315.6	29605.4	36666.0	44424.7	44887.9
65°	2974.4	3034.0	3421.1	5704.0	8827.4	15378.4	26637.6	36272.3	47753.1	48689.5
67.5°	2160.5	2190.3	2431.8	3484.0	5237.5	11150.0	21985.7	34287.1	49516.6	51081.6
70°	1660.9	1680.8	1856.1	2289.6	3093.5	6881.9	15967.3	30339.9	48239.5	50108.8
72.5°	1349.9	1369.8	1505.4	1694.0	2051.3	4069.6	9677.7	24639.2	42601.6	44619.9
75°	1138.2	1164.6	1287.0	1409.5	1608.0	2613.8	4539.4	17158.4	32037.2	33360.7
77.5°	631.9	582.3	1045.5	1167.9	1356.5	1654.3	2124.1	10097.9	17942.6	18309.8
80°	393.7	407.0	830.5	939.6	1042.2	833.8	972.7	3887.6	6220.2	5909.2
82.5°	23.2	52.9	638.6	678.3	714.7	357.3	367.3	1320.1	1498.8	1376.4
85°	0.0	0.0	291.2	234.9	248.1	102.6	105.9	307.7	201.8	218.4
87.5°	0.0	0.0	0.0	6.6	0.0	9.9	19.9	26.5	9.9	13.2
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°
6144.1	0°	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1	6144.1
6458.4	2.5°	6226.8	5995.2	5525.4	5065.5	4691.6	4344.2	4096.1	3861.1	3742.0	3735.4
6875.3	5°	6415.4	5929.0	4989.4	4158.9	3490.6	2954.6	2607.2	2359.0	2233.3	2190.3
7388.1	7.5°	6680.1	5948.9	4519.6	3364.9	2577.4	2117.5	1919.0	1839.6	1813.1	1783.3
7967.1	10°	7014.2	5995.2	4099.4	2709.7	2031.5	1799.9	1720.5	1687.4	1667.5	1647.7
8618.9	12.5°	7388.1	6038.2	3682.5	2249.9	1786.6	1667.5	1611.3	1571.6	1545.1	1522.0
9287.3	15°	7752.1	6064.7	3249.1	1928.9	1660.9	1565.0	1505.4	1462.4	1426.0	1399.5
9942.4	17.5°	8112.7	6101.1	2842.1	1737.0	1558.4	1462.4	1402.8	1349.9	1320.1	1290.4
10630.6	20°	8513.0	6094.5	2458.3	1601.4	1455.8	1359.8	1297.0	1247.3	1217.6	1184.5
11358.4	22.5°	8883.6	6061.4	2120.8	1485.6	1349.9	1257.3	1187.8	1138.2	1108.4	1081.9
12102.9	25°	9310.4	6034.9	1839.6	1379.7	1250.7	1158.0	1081.9	1035.6	1002.5	979.3
12850.6	27.5°	9720.7	5995.2	1634.5	1283.7	1154.7	1065.4	992.6	939.6	909.9	893.3
13621.5	30°	10124.3	5985.3	1558.4	1191.1	1068.7	979.3	906.6	856.9	833.8	827.2
14468.5	32.5°	10610.7	6011.7	1591.4	1158.0	989.3	899.9	830.5	794.1	770.9	770.9
15411.5	35°	11130.2	6005.1	1641.1	1187.8	936.3	820.5	767.6	744.4	721.3	721.3
16457.0	37.5°	11781.9	6015.0	1680.8	1237.4	916.5	754.4	724.6	694.8	681.6	681.6
17601.8	40°	12754.7	6342.6	1660.9	1280.4	909.9	708.0	648.5	638.6	628.6	628.6
18895.5	42.5°	13945.8	7053.9	1687.4	1283.7	906.6	675.0	595.5	615.4	592.2	588.9
20354.5	45°	15249.4	7831.5	1856.1	1214.3	903.2	658.4	569.1	592.2	555.8	555.8
22045.2	47.5°	16543.0	8602.4	2028.2	1115.0	893.3	655.1	545.9	532.7	522.8	526.1
24248.8	50°	18326.4	9231.0	2094.3	979.3	870.2	648.5	502.9	506.2	499.6	506.2
27355.6	52.5°	20268.5	9363.4	2014.9	827.2	804.0	628.6	473.1	486.4	483.1	489.7
29542.5	55°	21479.5	9221.1	1664.2	688.2	701.4	549.2	443.4	469.8	469.8	469.8
31679.9	57.5°	22730.1	8615.6	1181.2	559.2	582.3	450.0	416.9	453.3	450.0	446.7
34254.0	60°	23630.1	7636.3	777.5	459.9	463.2	370.6	387.1	426.8	423.5	407.0
36907.5	62.5°	24301.7	6554.3	499.6	390.4	354.0	334.2	354.0	387.1	373.9	337.5
39157.4	65°	24225.6	5055.6	383.8	334.2	291.2	291.2	307.7	337.5	297.8	238.2
39587.5	67.5°	22812.8	3421.1	317.6	281.2	244.8	241.5	254.8	281.2	254.8	201.8
37383.9	70°	20288.4	2236.6	254.8	218.4	195.2	178.7	205.1	241.5	215.1	162.1
31825.5	72.5°	16466.9	1363.1	191.9	158.8	142.3	115.8	162.1	198.5	172.0	119.1
22131.3	75°	10653.7	694.8	132.3	102.6	76.1	69.5	119.1	148.9	119.1	72.8
9819.9	77.5°	4076.2	291.2	72.8	46.3	39.7	33.1	66.2	89.3	49.6	16.5
1902.4	80°	784.1	122.4	36.4	23.2	19.9	13.2	9.9	6.6	0.0	0.0
337.5	82.5°	135.7	39.7	13.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0
66.2	85°	46.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.2	87.5°	16.5	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>
6144.1
3728.8
2183.7
1776.7
1641.1
1515.3
1396.2
1287.0
1181.2
1078.6
976.0
893.3
823.8
770.9
721.3
681.6
628.6
585.6
555.8
526.1
506.2
489.7
469.8
446.7
407.0
330.9
231.6
195.2
155.5
112.5
62.9
13.2
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