

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: P954740

Luminaire Tested: **GALN-SB7D-927-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954740
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-SB7D-927-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 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: 33932 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

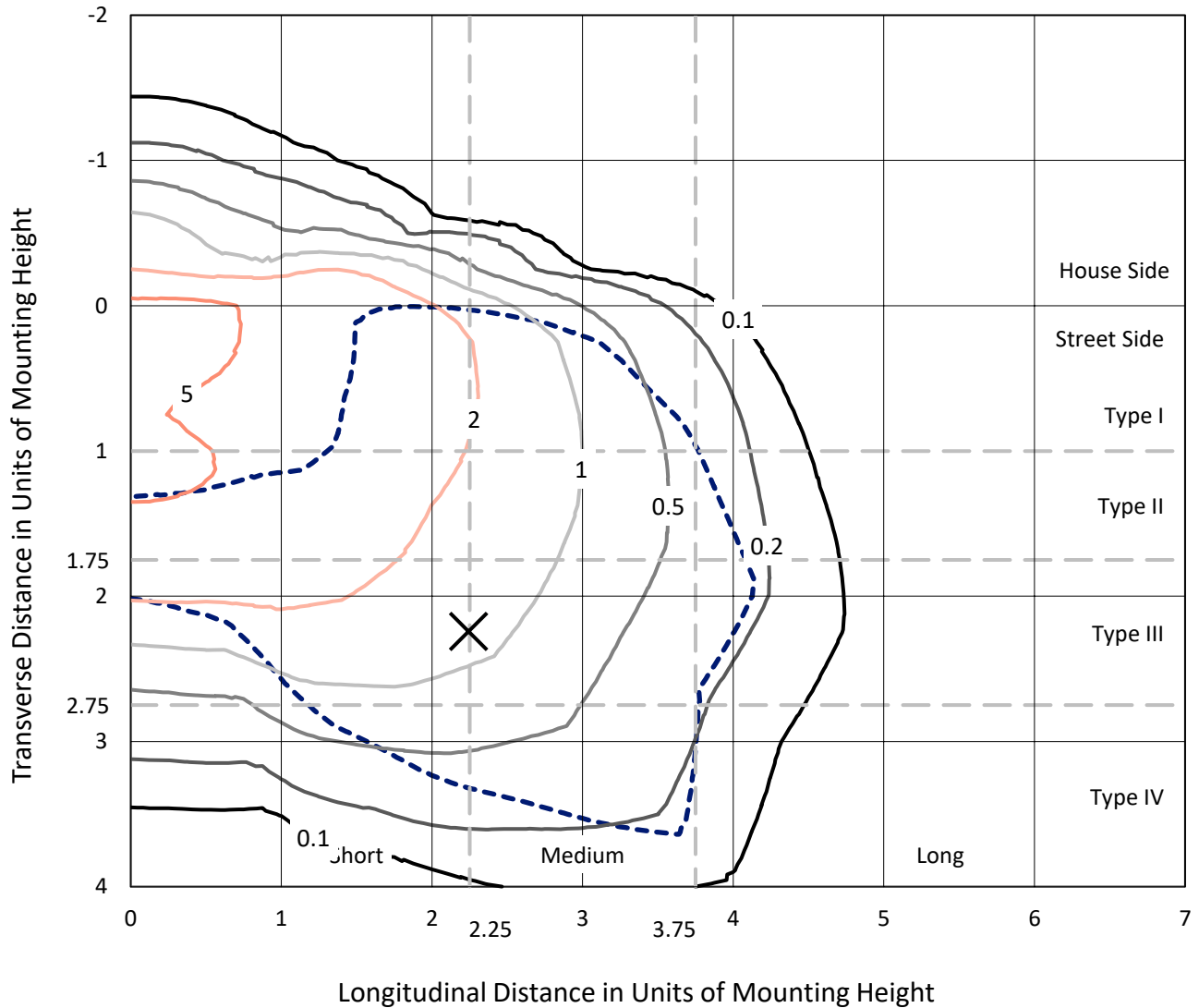
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

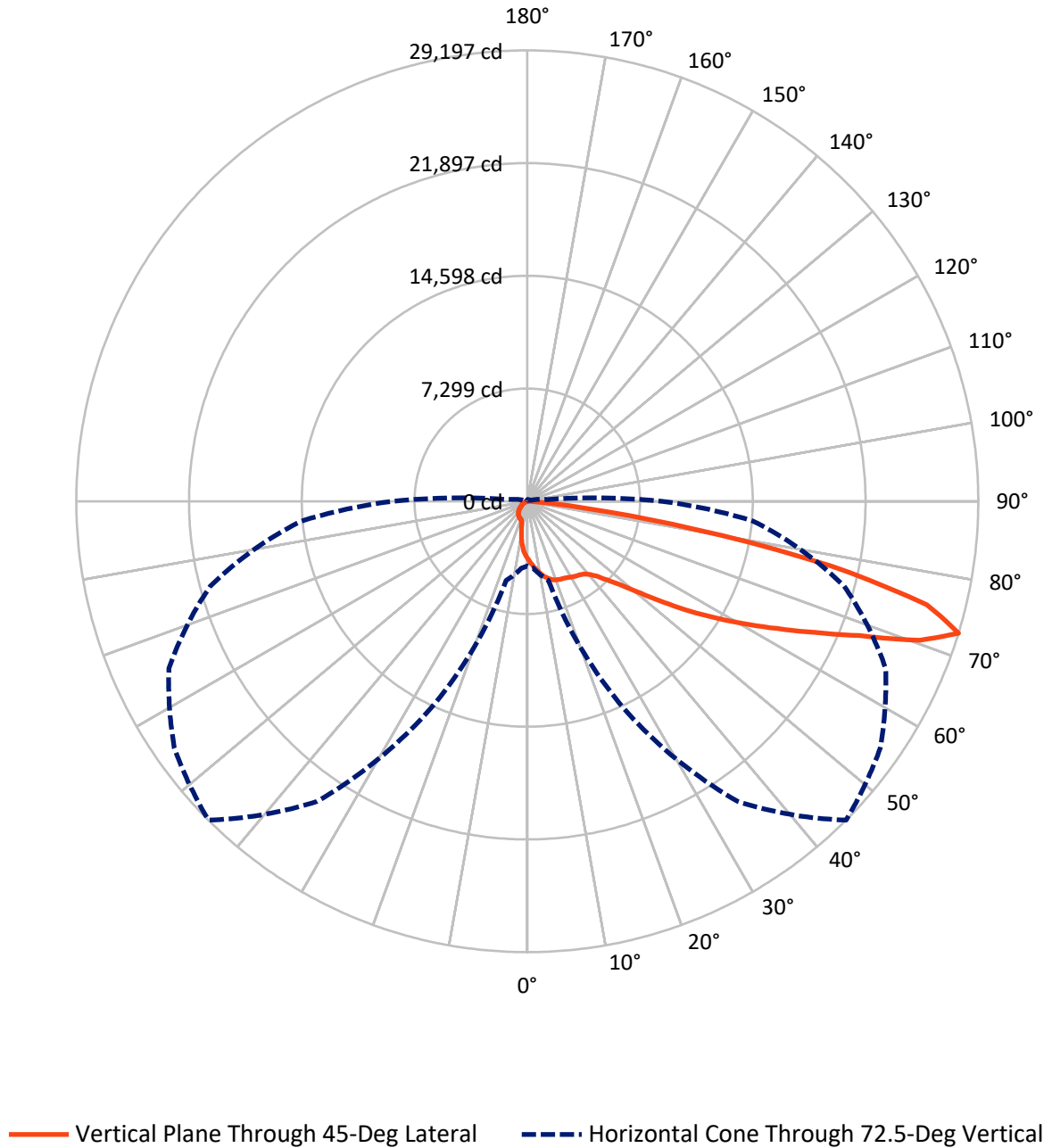
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3565.3	0.0	3565.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30366.7	0.0	30366.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	33932.0	0.0	33932.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.2	1.0
10°-20°	1023.6	3.0
20°-30°	1681.0	5.0
30°-40°	2384.0	7.0
40°-50°	3940.5	11.6
50°-60°	7078.6	20.9
60°-70°	9829.0	29.0
70°-80°	7129.7	21.0
80°-90°	515.4	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°	33932.0	100.0
0°-180°	33932.0	100.0



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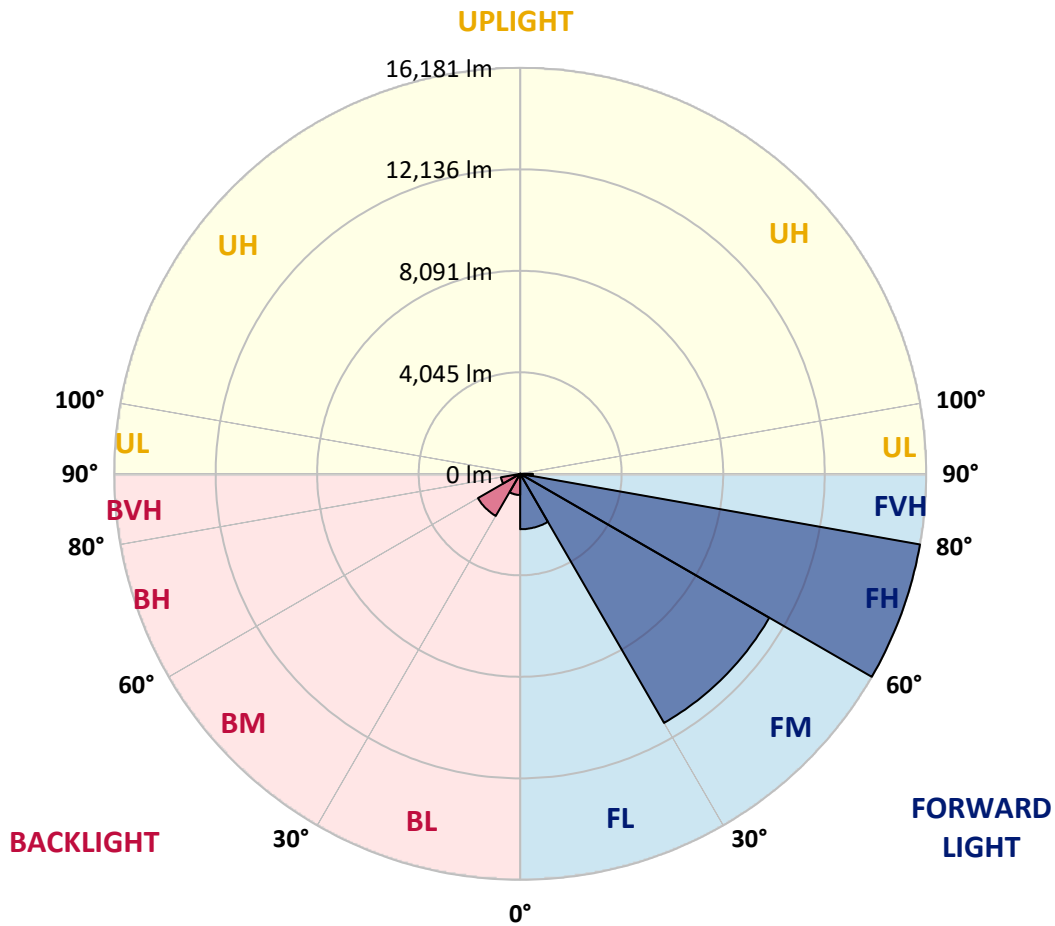
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.3	6.5			
FM (30°-60°)	11464.0	33.8			
FH (60°-80°)	16181.2	47.7			G5
FVH (80°-90°)	511.1	1.5			G4/750
BL (0°-30°)	844.5	2.5	B2/1000		
BM (30°-60°)	1939.0	5.7	B2/2500		
BH (60°-80°)	777.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.3	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3
2.5°	4060.1	4067.1	4062.4	4034.6	3988.3	3962.8	3948.9	3902.6	3872.5	3819.2
5°	4433.0	4460.8	4444.6	4389.0	4301.0	4238.4	4219.9	4125.0	4039.3	3939.7
7.5°	4829.0	4842.9	4812.8	4741.0	4622.9	4516.4	4500.2	4368.1	4231.5	4078.6
10°	5171.8	5188.0	5141.7	5037.5	4903.2	4771.1	4748.0	4602.1	4439.9	4252.3
12.5°	5459.0	5475.2	5415.0	5289.9	5141.7	5005.1	4981.9	4829.0	4650.7	4442.3
15°	5676.7	5706.8	5625.8	5491.4	5331.6	5195.0	5183.4	5032.9	4859.2	4627.5
17.5°	5804.1	5834.2	5757.8	5595.7	5459.0	5343.2	5329.3	5204.3	5042.1	4819.8
20°	5825.0	5852.8	5771.7	5630.4	5516.9	5424.3	5417.3	5327.0	5208.9	4995.8
22.5°	5762.4	5797.2	5723.1	5609.6	5530.8	5482.2	5472.9	5422.0	5354.8	5174.1
25°	5697.6	5725.4	5669.8	5570.2	5528.5	5523.9	5530.8	5521.6	5507.7	5354.8
27.5°	5692.9	5723.1	5660.5	5565.6	5542.4	5591.0	5598.0	5642.0	5653.6	5519.2
30°	5732.3	5753.2	5692.9	5593.4	5581.8	5692.9	5695.3	5774.0	5792.5	5658.2
32.5°	5818.0	5841.2	5781.0	5635.0	5618.8	5774.0	5781.0	5885.2	5915.3	5806.4
35°	6019.5	6047.3	5977.8	5750.8	5692.9	5850.4	5871.3	5994.0	6054.3	5963.9
37.5°	6522.1	6441.0	6346.1	5984.8	5862.0	5970.9	6005.6	6149.2	6255.8	6151.5
40°	7770.5	7515.7	7219.2	6383.1	6158.5	6228.0	6255.8	6399.4	6545.3	6443.4
42.5°	9644.2	9343.1	8866.0	7300.3	6605.5	6640.2	6661.1	6786.1	6992.3	6911.2
45°	11314.1	11205.2	10718.9	8866.0	7441.6	7270.2	7295.7	7360.5	7663.9	7633.8
47.5°	12597.2	12534.7	12159.5	10663.3	8854.4	8041.5	8113.3	8143.4	8581.1	8687.6
50°	13583.9	13560.7	13224.9	12261.4	10700.3	9178.7	9204.1	9139.3	9794.7	10058.8
52.5°	14514.9	14593.7	14345.9	13746.0	12671.3	10667.9	10663.3	10357.5	11242.3	11640.7
55°	15355.7	15383.5	15408.9	15260.7	14653.9	12363.3	12319.3	11819.0	12921.5	13333.7
57.5°	16145.5	16157.0	16384.0	16687.4	16717.5	14183.7	14102.7	13502.8	14755.8	15049.9
60°	16675.8	16729.1	17208.5	18051.6	18419.9	16062.1	16018.1	15406.6	16622.6	16759.2
62.5°	15911.5	16235.8	17444.8	19117.0	20027.2	18144.2	18123.4	17549.0	18586.6	18475.4
65°	12879.8	13428.7	15554.9	19837.3	21604.5	20469.6	20499.7	19888.3	20603.9	20242.6
67.5°	9009.6	9588.6	12103.9	19895.2	23367.0	23200.3	23374.0	22415.1	22746.3	21935.7
70°	6230.3	6529.1	8166.5	18649.1	24740.5	26961.6	26957.0	25518.7	24877.1	22706.9
72.5°	4189.8	4345.0	5303.8	14795.2	23730.6	29196.6	29062.3	27890.3	25595.1	21236.2
75°	1767.2	1880.7	2455.1	8314.8	18774.2	26711.5	26347.8	24647.8	22741.7	16722.2
77.5°	560.5	609.1	968.1	2976.2	10341.3	20078.2	19693.7	15392.7	15242.2	8388.9
80°	266.4	310.4	544.3	1195.1	4069.4	10920.4	10867.1	6983.0	6556.8	2265.1
82.5°	115.8	136.6	301.1	639.2	1820.4	3895.7	3974.4	2376.3	1966.4	859.3
85°	37.1	48.6	139.0	294.1	768.9	968.1	956.5	565.1	792.1	467.8
87.5°	0.0	0.0	46.3	67.2	78.7	55.6	62.5	48.6	220.0	129.7
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°
3717.3	0°	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3	3717.3
3763.6	2.5°	3735.9	3698.8	3633.9	3573.7	3520.5	3467.2	3434.8	3388.4	3383.8	3383.8
3823.9	5°	3761.3	3701.1	3585.3	3462.6	3321.3	3186.9	3052.6	2922.9	2881.2	2851.1
3921.1	7.5°	3835.4	3740.5	3557.5	3323.6	3054.9	2760.8	2554.6	2332.3	2246.6	2200.3
4050.8	10°	3942.0	3812.3	3534.4	3124.4	2689.0	2288.3	1994.2	1753.3	1660.6	1621.3
4192.1	12.5°	4060.1	3900.3	3492.7	2876.6	2288.3	1808.9	1521.7	1410.5	1396.6	1396.6
4361.2	15°	4201.4	4006.8	3420.9	2584.8	1869.1	1431.3	1329.4	1334.1	1348.0	1357.2
4525.6	17.5°	4347.3	4120.3	3307.4	2258.2	1498.5	1287.7	1290.1	1297.0	1308.6	1317.9
4704.0	20°	4504.8	4233.8	3156.8	1910.8	1285.4	1246.1	1253.0	1260.0	1269.2	1273.8
4870.7	22.5°	4673.9	4340.4	2978.5	1570.3	1213.6	1211.3	1213.6	1220.6	1232.2	1232.2
5065.3	25°	4854.5	4458.5	2774.7	1322.5	1176.6	1176.6	1181.2	1185.8	1195.1	1195.1
5252.9	27.5°	5039.8	4567.3	2559.3	1192.8	1144.1	1141.8	1141.8	1148.8	1153.4	1155.7
5438.2	30°	5243.6	4694.7	2343.9	1165.0	1118.7	1107.1	1100.1	1104.8	1109.4	1111.7
5632.7	32.5°	5452.1	4817.5	2151.6	1176.6	1093.2	1072.3	1049.2	1044.6	1044.6	1053.8
5834.2	35°	5683.7	4951.8	2003.4	1215.9	1079.3	1021.4	984.3	963.5	965.8	979.7
6075.1	37.5°	5961.6	5113.9	1894.6	1250.7	1070.0	963.5	903.3	877.8	861.6	877.8
6406.3	40°	6325.2	5352.5	1815.8	1278.5	1058.5	896.3	815.3	773.6	743.5	752.7
6920.5	42.5°	6860.3	5727.7	1785.7	1280.8	1033.0	817.6	724.9	669.3	625.3	627.7
7694.0	45°	7610.7	6320.6	1940.9	1250.7	977.4	731.9	630.0	555.9	528.1	521.1
8849.8	47.5°	8639.0	7184.5	2299.9	1188.2	896.3	648.5	537.3	474.8	454.0	442.4
10366.8	50°	10017.1	8293.9	2698.2	1118.7	815.3	569.8	460.9	421.5	407.6	396.1
12166.4	52.5°	11615.2	9419.5	3024.8	1049.2	734.2	500.3	412.3	389.1	377.5	368.3
13903.5	55°	13081.3	10195.4	3006.3	975.1	655.5	444.7	377.5	363.6	349.7	340.5
15399.7	57.5°	13993.8	10304.3	2478.2	894.0	565.1	400.7	345.1	335.8	319.6	308.0
16694.4	60°	14413.0	9683.6	1737.1	787.5	474.8	359.0	310.4	305.7	284.9	268.7
17919.6	62.5°	14489.5	8530.2	1158.0	655.5	396.1	319.6	275.6	268.7	240.9	213.1
18915.5	65°	14179.1	6881.1	801.4	511.9	338.1	277.9	236.2	222.3	192.2	164.4
19151.7	67.5°	13197.1	4831.4	558.2	368.3	287.2	220.0	187.6	183.0	159.8	136.6
17947.4	70°	11397.5	2753.8	372.9	275.6	227.0	150.5	148.2	152.9	129.7	111.2
14663.2	72.5°	8738.6	1260.0	231.6	201.5	155.2	101.9	118.1	120.4	99.6	83.4
9148.6	75°	5144.0	539.6	145.9	129.7	78.7	67.2	85.7	88.0	67.2	53.3
3344.4	77.5°	1751.0	203.8	92.6	76.4	39.4	37.1	55.6	55.6	37.1	20.8
671.7	80°	398.4	76.4	46.3	30.1	18.5	16.2	18.5	16.2	9.3	2.3
206.1	82.5°	113.5	30.1	18.5	11.6	6.9	6.9	2.3	0.0	0.0	0.0
71.8	85°	32.4	13.9	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
25.5	87.5°	13.9	2.3	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>
3717.3
3395.4
2865.0
2207.2
1621.3
1396.6
1357.2
1317.9
1276.2
1236.8
1197.4
1158.0
1116.4
1060.8
986.7
873.2
748.1
618.4
511.9
435.4
393.7
365.9
335.8
305.7
264.0
199.2
155.2
129.7
101.9
74.1
46.3
16.2
0.0
0.0
0.0
0.0
0.0

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