

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: P955998

Luminaire Tested: **GALN-SB8D-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72477 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

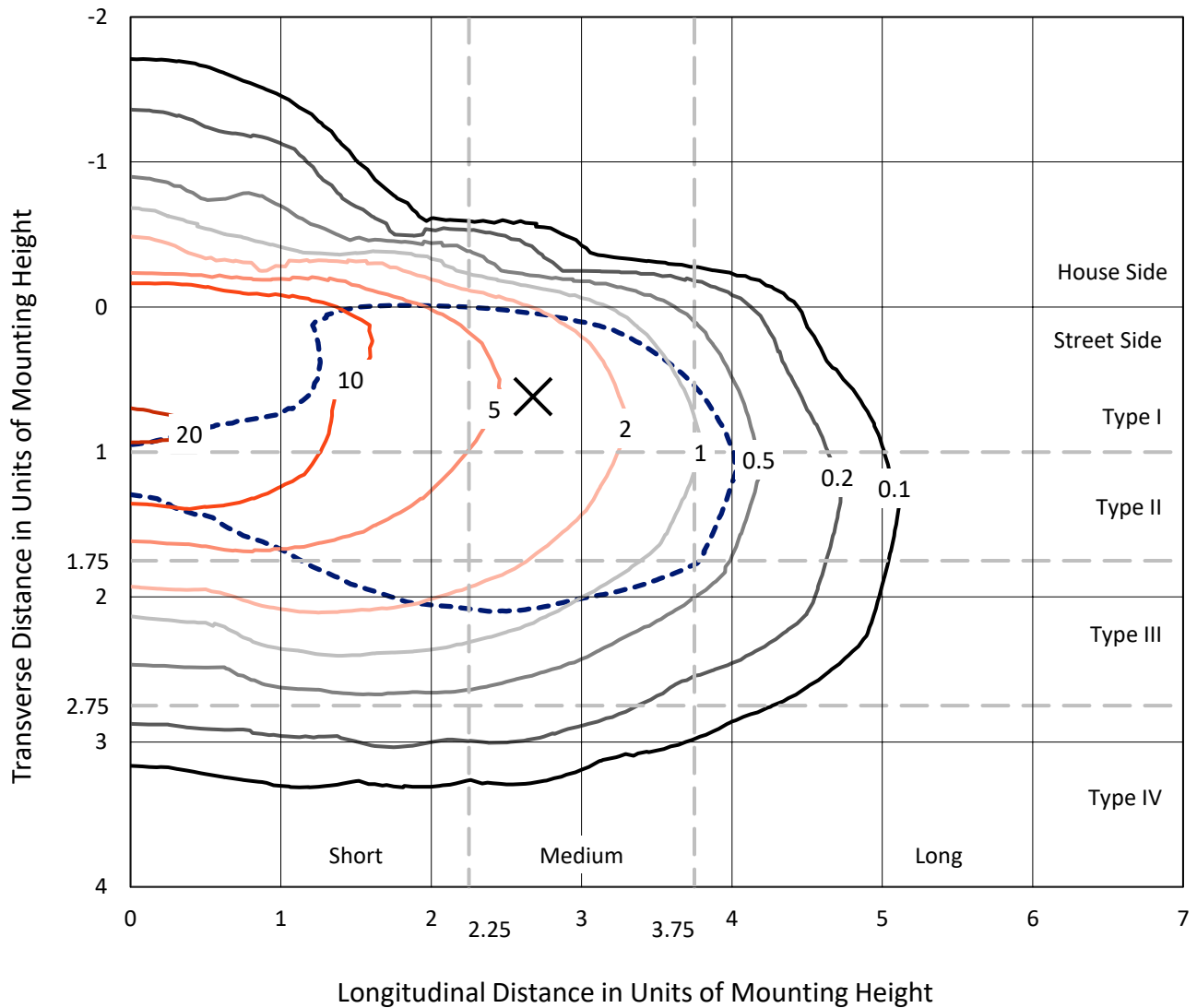
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955998
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Iso-Footcandle Lines of Horizontal Illumination

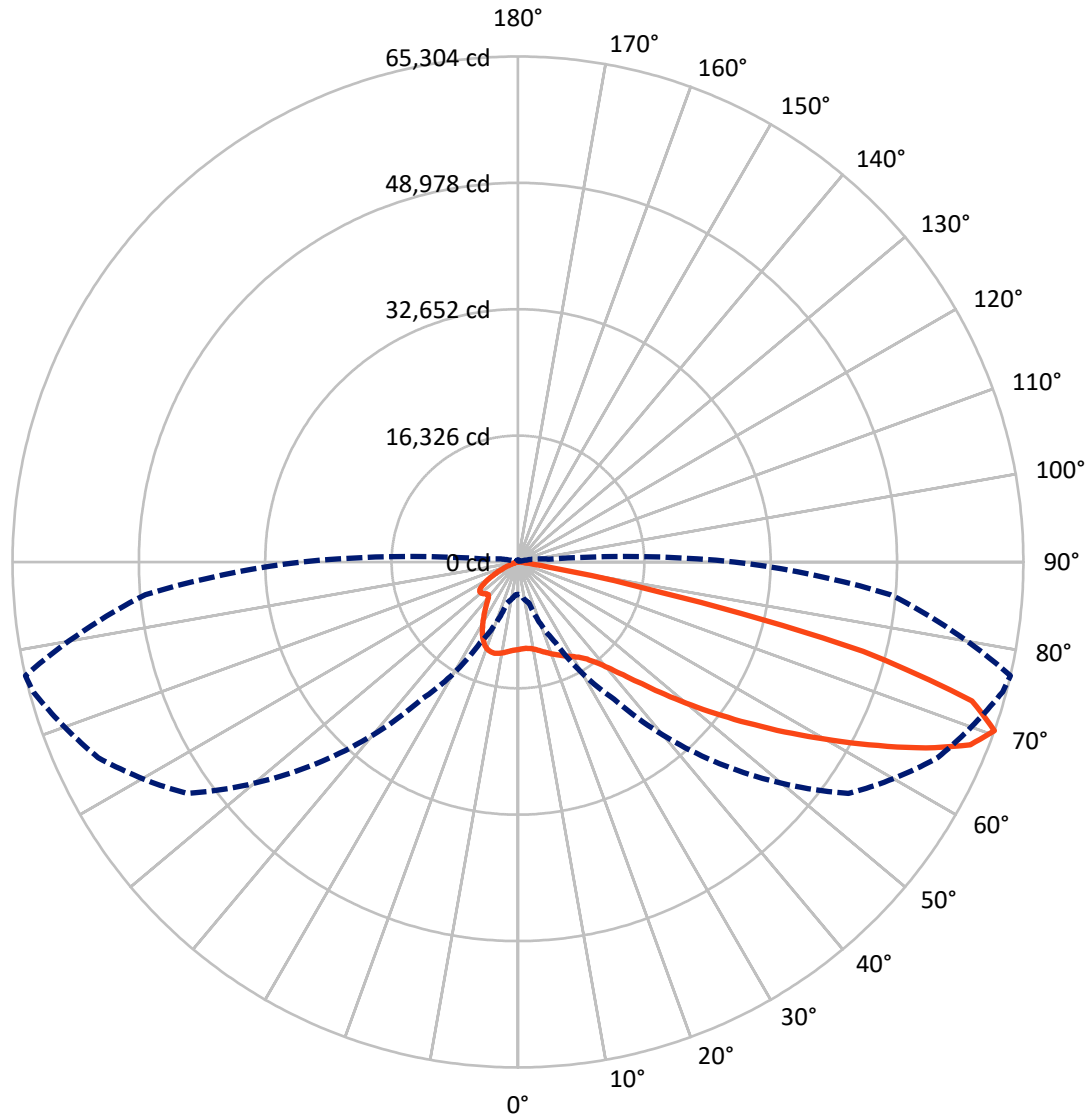
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P955998
CATALOG NUMBER: GALN-SB8D-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7640.1	0.0	7640.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	64836.9	0.0	64836.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	72477.0	0.0	72477.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.3	1.3
10°-20°	2312.9	3.2
20°-30°	3577.5	4.9
30°-40°	6491.5	9.0
40°-50°	12253.5	16.9
50°-60°	17705.2	24.4
60°-70°	18846.7	26.0
70°-80°	9987.5	13.8
80°-90°	327.9	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°	72477.0	100.0
0°-180°	72477.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955998

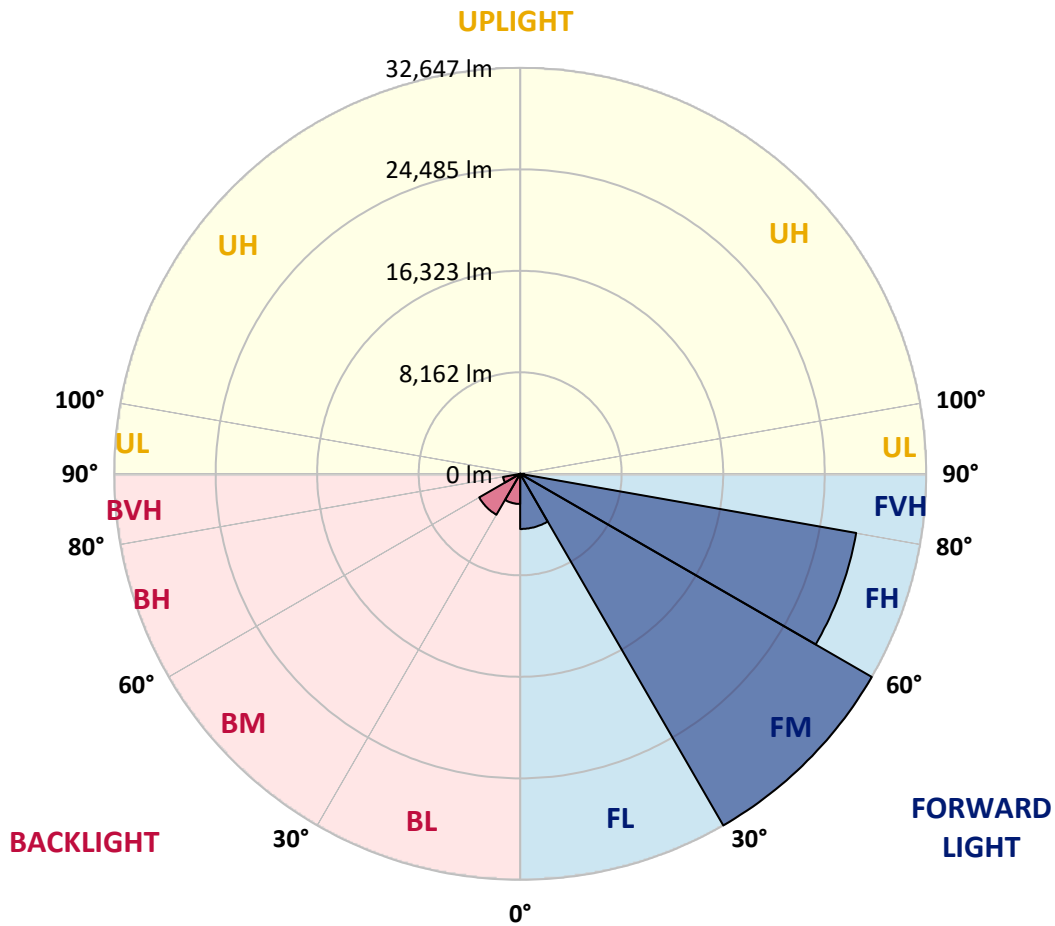
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4437.3	6.1			
FM (30°-60°)	32646.9	45.0			
FH (60°-80°)	27433.6	37.9			G5
FVH (80°-90°)	319.1	0.4			G3/500
BL (0°-30°)	2427.4	3.3	B3/2500		
BM (30°-60°)	3803.3	5.2	B3/5000		
BH (60°-80°)	1400.6	1.9	B3/2500		G3/2500
BVH (80°-90°)	8.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P955998
 CATALOG NUMBER: GALN-SB8D-740-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	
0°	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	<i>11305.1</i>
2.5°	10614.0	10710.1	10696.4	10760.4	10783.3	10874.9	10966.4	11090.0	11227.3	11227.3	<i>11222.7</i>
5°	10014.4	10110.5	10133.4	10220.4	10330.2	10472.1	10659.8	10906.9	11163.2	11163.2	<i>11204.4</i>
7.5°	9305.0	9405.7	9465.2	9639.1	9840.5	10133.4	10440.1	10801.6	11227.3	11227.3	<i>11286.8</i>
10°	8595.5	8687.1	8764.9	9012.0	9332.4	9767.2	10266.1	10787.9	11360.0	11360.0	<i>11447.0</i>
12.5°	8156.2	8243.1	8330.1	8545.2	8943.4	9474.3	10151.7	10852.0	11579.7	11579.7	<i>11703.3</i>
15°	8000.5	8078.3	8147.0	8339.2	8710.0	9314.1	10128.8	10984.7	11858.9	11858.9	<i>12023.7</i>
17.5°	8023.4	8064.6	8110.4	8256.8	8618.4	9240.9	10170.0	11213.6	12188.5	12188.5	<i>12334.9</i>
20°	8156.2	8179.0	8183.6	8284.3	8604.7	9231.7	10252.4	11433.3	12499.7	12499.7	<i>12696.5</i>
22.5°	8325.5	8334.7	8325.5	8394.2	8691.7	9300.4	10362.2	11698.7	12847.5	12847.5	<i>13030.6</i>
25°	9117.3	8943.4	8723.7	8591.0	8838.1	9433.1	10527.0	12055.7	13227.4	13227.4	<i>13405.9</i>
27.5°	11575.1	11076.3	10289.0	9405.7	9140.2	9625.4	10755.9	12417.3	13611.9	13611.9	<i>13772.1</i>
30°	15566.3	14911.8	13575.3	11584.3	10110.5	10028.1	11053.4	12778.9	14019.2	14019.2	<i>14193.2</i>
32.5°	19566.5	19406.3	17863.9	15108.6	12293.7	10925.2	11547.7	13268.6	14559.3	14559.3	<i>14696.6</i>
35°	23612.6	23287.6	22024.4	19301.1	15657.8	12751.4	12371.5	13909.4	15268.8	15268.8	<i>15424.4</i>
37.5°	26711.2	26514.4	25731.7	23489.0	19648.9	15570.8	13781.2	14902.6	16298.6	16298.6	<i>16472.5</i>
40°	29448.2	29356.7	29091.2	27612.8	24111.5	19259.9	15973.6	16440.5	17726.6	17726.6	<i>17932.5</i>
42.5°	31599.4	31814.5	31965.5	31553.6	28711.3	23470.7	18921.2	18600.8	19717.6	19717.6	<i>19928.1</i>
45°	33800.9	33874.1	34482.9	35077.9	33279.1	27873.7	22244.0	21131.8	22193.7	22193.7	<i>22454.6</i>
47.5°	35215.2	35508.1	36579.1	37627.2	37119.2	32240.1	25814.1	24120.6	25063.5	25063.5	<i>25553.2</i>
50°	35320.4	35874.3	37348.0	39174.2	39915.7	36396.0	29695.3	27525.9	28528.2	28528.2	<i>29068.3</i>
52.5°	33567.5	34427.9	36711.8	39384.8	41426.1	39915.7	33709.3	30931.1	32217.3	32217.3	<i>32922.1</i>
55°	25736.3	26862.2	34318.1	38240.5	41485.6	42584.1	37618.1	34478.3	36327.4	36327.4	<i>37123.8</i>
57.5°	22422.6	22990.1	26981.2	36254.1	40382.6	43659.7	41151.5	37856.1	40799.1	40799.1	<i>41787.7</i>
60°	18655.7	19401.8	22628.5	33004.5	38885.9	43764.9	44273.0	42213.3	45646.1	45646.1	<i>46758.3</i>
62.5°	12678.2	13488.3	16696.8	27420.6	36840.0	43714.6	46831.5	46698.8	51033.2	51033.2	<i>52227.7</i>
65°	7854.1	8362.1	10476.7	22390.5	33979.4	43769.5	49509.0	52145.4	56717.7	56717.7	<i>57930.6</i>
67.5°	6206.4	6439.8	7542.8	17191.1	29050.0	42533.7	52182.0	57267.0	62068.2	62068.2	<i>63029.4</i>
70°	<i>4169.6</i>	<i>4311.5</i>	<i>5487.8</i>	<i>11524.8</i>	<i>21612.4</i>	<i>36830.8</i>	<i>52131.6</i>	<i>59839.2</i>	<i>64823.6</i>	<i>64823.6</i>	<i>65304.1</i>
72.5°	2196.9	2306.8	3208.5	5336.7	13053.5	26180.2	43943.4	56763.5	62082.0	62082.0	<i>61358.8</i>
75°	1098.5	1281.6	2160.3	2709.6	5574.7	14600.5	27287.9	44753.6	48863.7	48863.7	<i>46062.6</i>
77.5°	833.0	1006.9	1785.0	1785.0	1940.6	4915.7	11556.8	24409.0	22514.1	22514.1	<i>18747.2</i>
80°	530.9	686.5	1560.7	1350.2	810.1	1249.5	3011.6	6838.0	4782.9	4782.9	<i>3638.7</i>
82.5°	311.2	448.5	1299.9	892.5	453.1	462.3	851.3	1455.5	1240.4	1240.4	<i>965.7</i>
85°	123.6	292.9	892.5	352.4	178.5	114.4	256.3	311.2	256.3	256.3	<i>192.2</i>
87.5°	0.0	68.7	155.6	0.0	13.7	9.2	18.3	22.9	22.9	22.9	<i>18.3</i>
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<i>0.0</i>

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
11305.1	0°	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1	11305.1
11314.3	2.5°	11355.4	11364.6	11392.1	11396.6	11332.6	11250.2	11218.1	11204.4	11149.5	11144.9
11387.5	5°	11492.8	11534.0	11492.8	11373.8	11090.0	10691.8	10389.7	10142.6	9918.3	9849.6
11639.2	7.5°	11767.4	11808.6	11685.0	11218.1	10504.1	9712.3	8998.3	8494.8	8041.7	7872.4
11945.9	10°	12161.0	12215.9	11826.9	10884.0	9620.8	8348.4	7140.1	6288.7	5625.1	5355.0
12362.4	12.5°	12655.3	12678.2	11904.7	10376.0	8472.0	6654.9	4943.1	4032.3	3441.9	3222.2
12865.8	15°	13200.0	13167.9	11913.8	9684.9	6906.6	4705.1	3226.8	2650.1	2412.1	2338.8
13369.3	17.5°	13772.1	13639.4	11730.8	8687.1	5190.3	3217.6	2393.8	2256.4	2215.3	2196.9
13868.2	20°	14335.1	14037.6	11396.6	7382.6	3725.6	2402.9	2174.1	2132.9	2110.0	2100.8
14371.7	22.5°	14847.7	14339.6	10824.5	5867.7	2705.0	2123.7	2055.1	2018.4	1977.2	1958.9
14861.4	25°	15346.6	14513.6	10019.0	4453.4	2164.9	1986.4	1931.5	1862.8	1807.9	1785.0
15387.8	27.5°	15831.7	14623.4	9012.0	3295.4	1931.5	1858.2	1757.6	1661.4	1620.2	1611.1
15950.7	30°	16348.9	14660.0	7867.8	2457.8	1789.6	1698.1	1551.6	1441.7	1418.9	1423.4
16710.5	32.5°	16980.5	14714.9	6714.4	2013.9	1670.6	1505.8	1331.9	1217.5	1199.2	1217.5
17818.1	35°	17735.7	14824.8	5602.2	1853.7	1565.3	1309.0	1121.4	1025.2	1006.9	1020.7
19237.0	37.5°	18761.0	15003.3	4563.2	1821.6	1478.4	1144.2	942.9	865.0	865.0	869.6
20976.2	40°	20124.9	15479.3	3634.1	1798.7	1432.6	1020.7	796.4	764.4	778.1	787.2
23191.5	42.5°	21786.4	16490.8	3007.1	1771.3	1382.2	965.7	723.2	709.4	732.3	741.5
25846.1	45°	23649.2	17772.4	2787.4	1725.5	1336.5	1002.4	691.1	672.8	700.3	704.9
28821.1	47.5°	25576.1	19026.4	2759.9	1675.2	1290.7	1057.3	682.0	640.8	672.8	677.4
31997.6	50°	27525.9	19845.7	2787.4	1597.4	1217.5	1057.3	686.5	608.7	636.2	649.9
35293.0	52.5°	29489.4	20221.0	2769.1	1428.0	1089.3	993.2	686.5	581.3	608.7	617.9
38853.9	55°	31393.4	20147.8	2489.9	1176.3	924.5	878.8	668.2	558.4	576.7	581.3
42217.9	57.5°	32899.2	19127.1	1972.7	915.4	750.6	732.3	608.7	530.9	544.7	540.1
45302.8	60°	33686.5	16884.4	1409.7	704.9	590.4	576.7	535.5	494.3	503.5	480.6
47916.2	62.5°	33695.6	13918.5	942.9	558.4	471.4	457.7	457.7	444.0	434.8	389.0
49939.3	65°	32977.0	10627.7	627.0	444.0	379.9	357.0	384.5	379.9	347.8	283.8
50557.2	67.5°	31347.6	6966.1	476.0	347.8	292.9	279.2	306.7	320.4	297.5	238.0
48305.3	70°	27997.3	4055.2	393.6	270.0	219.7	206.0	247.2	274.6	247.2	192.2
41288.8	72.5°	23255.6	2187.8	320.4	201.4	151.0	137.3	196.8	224.3	196.8	141.9
26491.5	75°	15090.3	1171.7	247.2	132.7	77.8	87.0	146.5	164.8	137.3	91.5
7776.3	77.5°	5066.7	517.2	155.6	64.1	36.6	36.6	87.0	100.7	64.1	32.0
1414.3	80°	1130.5	215.1	64.1	27.5	13.7	13.7	18.3	18.3	9.2	0.0
434.8	82.5°	370.7	87.0	27.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0
109.8	85°	141.9	32.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36.6	87.5°	54.9	4.6	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°
11305.1
11154.1
9808.4
7803.7
5240.6
3153.5
2338.8
2192.4
2091.7
1954.4
1775.9
1601.9
1423.4
1212.9
1016.1
865.0
787.2
741.5
709.4
682.0
654.5
617.9
581.3
540.1
476.0
375.3
274.6
233.4
183.1
137.3
82.4
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