

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: P955637

Luminaire Tested: **GALN-SB8C-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955637  
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-SB8C-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

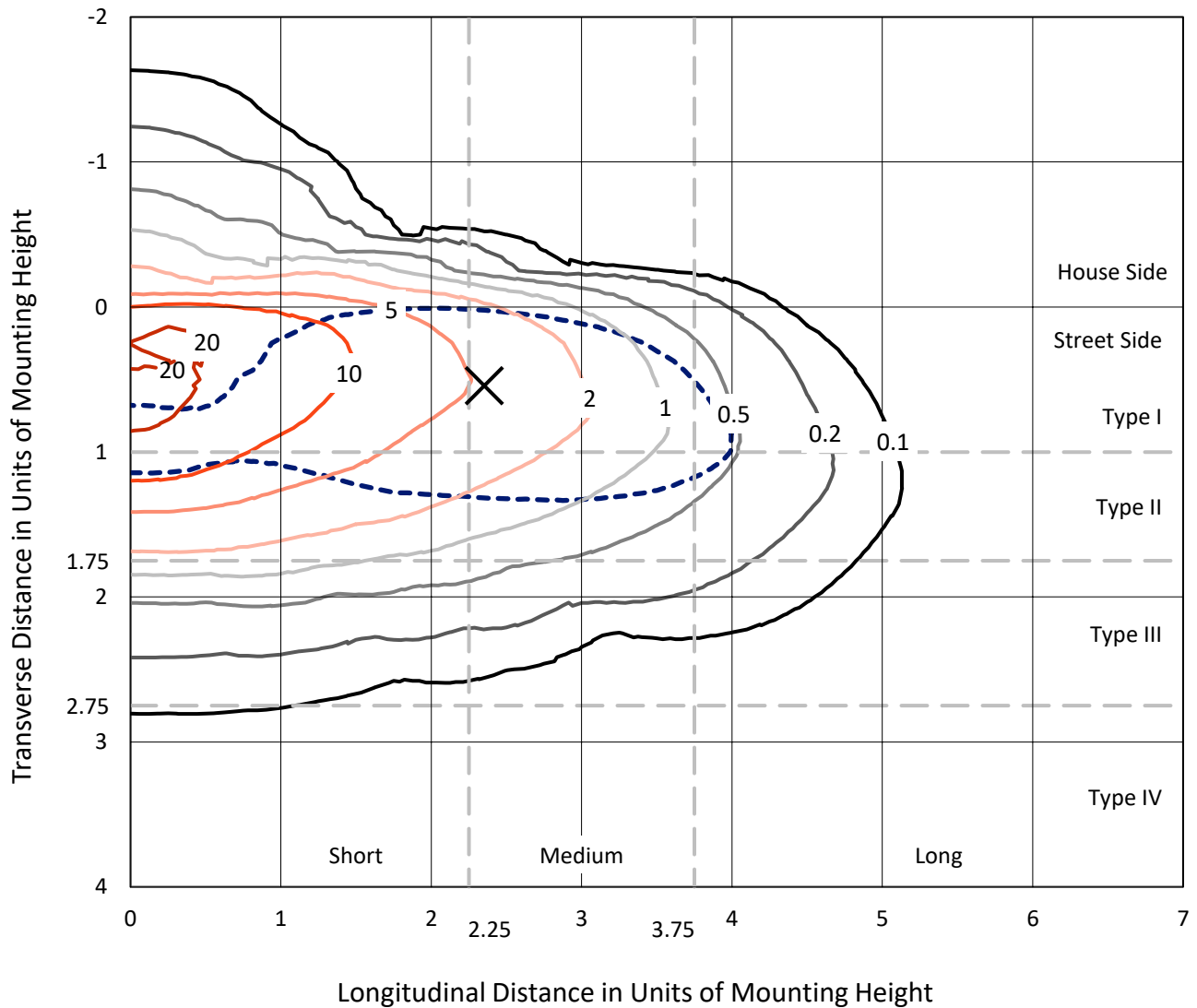
Lumens per Lamp: N/A  
Luminaire Lumens: 54246 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): 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

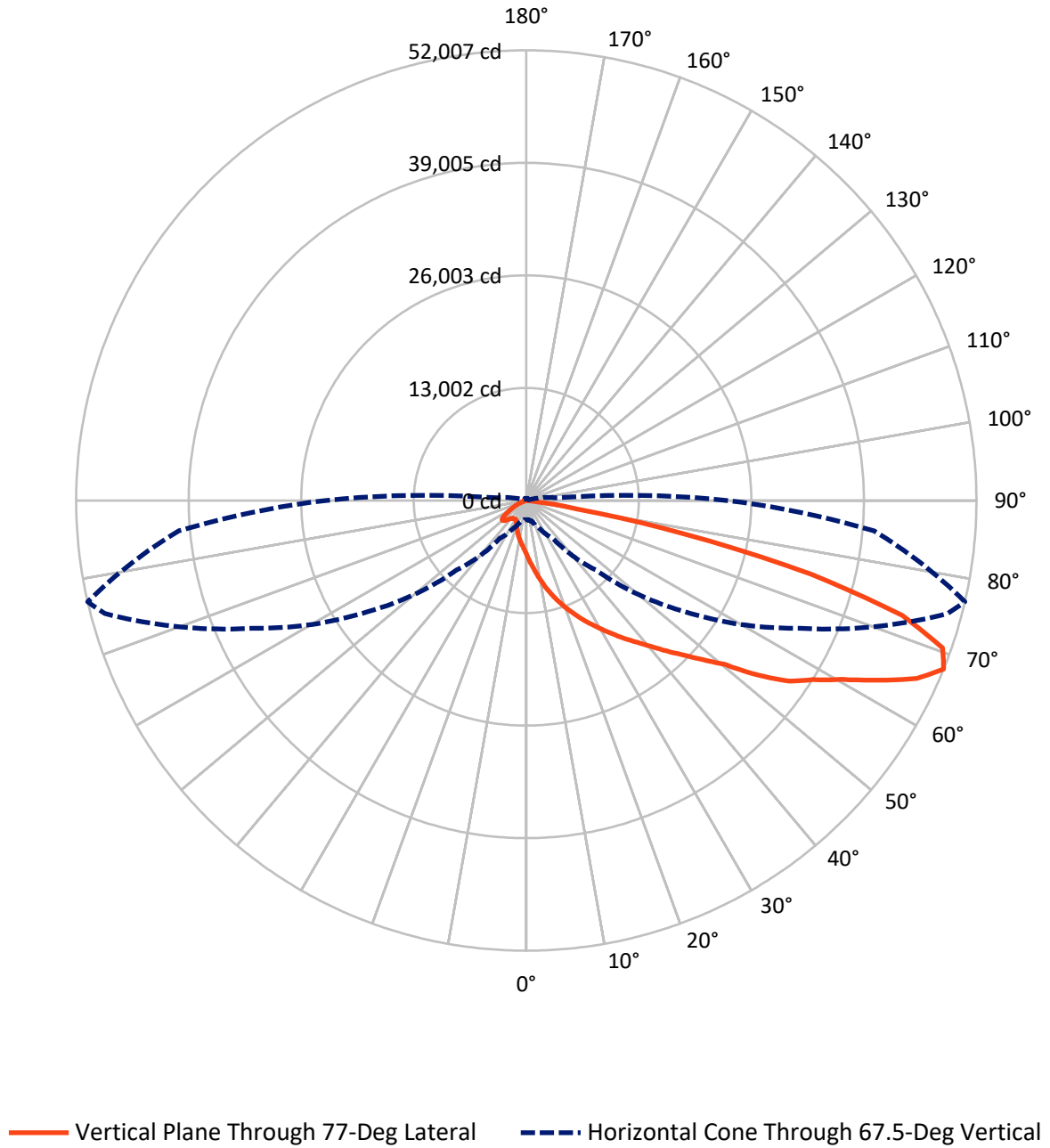
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3990.9	0.0	3990.9
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	50255.1	0.0	50255.1
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	54246.0	0.0	54246.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	638.5	1.2
10°-20°	2235.8	4.1
20°-30°	4314.5	8.0
30°-40°	7490.2	13.8
40°-50°	10875.4	20.0
50°-60°	12489.1	23.0
60°-70°	10842.8	20.0
70°-80°	5107.1	9.4
80°-90°	252.6	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°	54246.0	100.0
0°-180°	54246.0	100.0

**Coefficient of Utilization**



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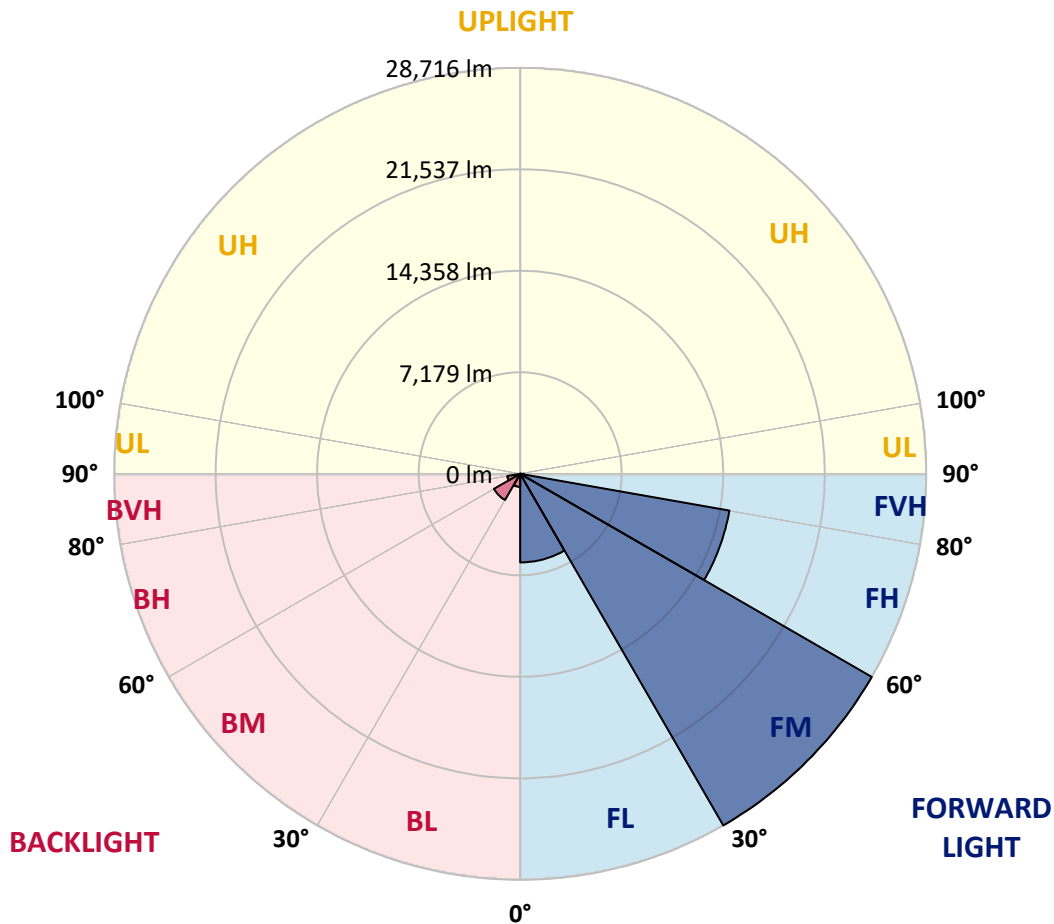
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6264.8	11.5			
FM (30°-60°)	28716.4	52.9			
FH (60°-80°)	15026.0	27.7			G5
FVH (80°-90°)	247.9	0.5			G3/500
BL (0°-30°)	924.0	1.7	B2/1000		
BM (30°-60°)	2138.4	3.9	B2/2500		
BH (60°-80°)	923.9	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°	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4
2.5°	8660.5	8714.4	8636.9	8488.7	8266.4	8121.5	7767.8	7434.3	7063.8	6945.9
5°	10557.0	10604.1	10516.6	10354.9	10058.4	9775.5	9310.6	8613.3	7889.1	7656.7
7.5°	11961.7	11988.6	11954.9	11806.7	11523.7	11203.7	10685.0	9859.7	8785.1	8529.1
10°	12972.2	13059.8	13049.7	12992.4	12803.8	12544.4	11992.0	11052.1	9788.9	9458.8
12.5°	13642.5	13740.2	13797.5	13925.5	13915.4	13750.3	13265.3	12271.6	10789.4	10402.0
15°	13837.9	13942.3	14161.3	14457.7	14720.5	14804.7	14464.5	13467.4	11890.9	11395.7
17.5°	13726.8	13888.5	14151.2	14619.4	15195.4	15576.1	15539.0	14622.8	12891.4	12325.5
20°	13972.7	14127.6	14333.1	14727.2	15397.6	16088.1	16364.3	15727.7	13885.1	13292.2
22.5°	15333.6	15306.6	15326.8	15390.8	15791.7	16475.5	17044.8	16731.5	14868.7	14262.4
25°	17489.4	17368.1	17162.7	16815.7	16714.6	17044.8	17637.6	17620.8	15906.2	15256.1
27.5°	19961.9	19941.7	19460.0	18624.6	18153.0	18025.0	18308.0	18486.5	16933.6	16239.7
30°	22330.0	22383.9	21733.8	20804.0	19938.3	19436.4	19180.4	19308.4	17977.8	17300.8
32.5°	24391.5	24448.8	23741.4	22653.4	21582.2	20975.8	20436.9	20120.2	19116.4	18378.7
35°	26133.1	26190.3	25378.5	24175.9	23034.0	22484.9	21875.2	21009.5	20261.7	19574.5
37.5°	27689.3	27672.5	26584.4	25371.8	24250.1	23815.5	23495.5	22104.3	21440.7	20777.1
40°	28608.9	28679.7	27750.0	26412.6	25324.6	25008.0	24987.8	23461.8	22801.6	22158.2
42.5°	28878.4	29003.0	28329.3	27231.2	26244.2	25900.6	26429.5	24930.5	24384.8	23758.2
45°	28393.3	28514.6	28208.1	27446.8	26870.8	26648.4	27669.1	26453.1	26075.8	25456.0
47.5°	26978.6	27130.1	27204.3	27042.6	27035.8	27261.5	28780.7	28056.5	28083.4	27450.2
50°	24239.9	24496.0	25176.4	25749.0	26635.0	27746.6	29862.0	29794.7	30347.1	29801.4
52.5°	19261.3	19625.1	21969.6	23535.9	25526.7	27655.6	31051.1	32583.8	34318.6	33520.2
55°	15478.4	15478.4	17385.0	20315.6	23364.1	27056.0	31569.9	34396.1	37023.5	36834.9
57.5°	12618.5	12770.1	13986.1	16576.5	20234.8	25627.8	31889.9	35534.6	39203.0	39064.8
60°	7788.0	8114.8	10412.1	12968.8	16674.2	23084.5	31687.8	36686.7	41847.3	41958.4
62.5°	4385.8	4507.1	5531.1	9330.8	12965.5	19665.5	30141.6	37330.1	45229.3	45700.9
65°	3028.3	3088.9	3483.1	5807.3	8987.2	15656.9	27120.0	36929.2	48618.0	49571.3
67.5°	2199.7	2230.0	2475.9	3547.1	5332.4	11351.9	22383.9	34908.1	50413.4	52006.7
70°	1691.0	1711.2	1889.7	2331.0	3149.6	7006.5	16256.5	30889.4	49113.2	51016.4
72.5°	1374.4	1394.6	1532.7	1724.7	2088.5	4143.3	9853.0	25085.4	43373.2	45428.0
75°	1158.8	1185.7	1310.4	1435.0	1637.1	2661.1	4621.6	17469.2	32617.5	33964.9
77.5°	643.4	592.9	1064.5	1189.1	1381.1	1684.3	2162.6	10280.8	18267.5	18641.4
80°	400.9	414.3	845.5	956.7	1061.1	848.9	990.3	3958.0	6332.8	6016.2
82.5°	23.6	53.9	650.1	690.5	727.6	363.8	373.9	1344.0	1525.9	1401.3
85°	0.0	0.0	296.4	239.2	252.6	104.4	107.8	313.3	205.5	222.3
87.5°	0.0	0.0	0.0	6.7	0.0	10.1	20.2	26.9	10.1	13.5
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°
6255.4	0°	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4	6255.4
6575.4	2.5°	6339.6	6103.8	5625.4	5157.2	4776.6	4422.9	4170.2	3931.1	3809.8	3803.1
6999.8	5°	6531.6	6036.4	5079.7	4234.2	3553.8	3008.1	2654.4	2401.8	2273.8	2230.0
7521.9	7.5°	6801.1	6056.6	4601.4	3425.8	2624.1	2155.9	1953.7	1872.9	1846.0	1815.6
8111.4	10°	7141.3	6103.8	4173.6	2758.8	2068.3	1832.5	1751.6	1718.0	1697.7	1677.5
8775.0	12.5°	7521.9	6147.6	3749.2	2290.6	1819.0	1697.7	1640.5	1600.1	1573.1	1549.5
9455.5	15°	7892.5	6174.5	3307.9	1963.9	1691.0	1593.3	1532.7	1488.9	1451.8	1424.9
10122.4	17.5°	8259.6	6211.6	2893.6	1768.5	1586.6	1488.9	1428.3	1374.4	1344.0	1313.7
10823.1	20°	8667.2	6204.8	2502.8	1630.4	1482.2	1384.5	1320.5	1269.9	1239.6	1205.9
11564.2	22.5°	9044.5	6171.1	2159.2	1512.5	1374.4	1280.0	1209.3	1158.8	1128.5	1101.5
12322.1	25°	9479.0	6144.2	1872.9	1404.7	1273.3	1179.0	1101.5	1054.4	1020.7	997.1
13083.4	27.5°	9896.7	6103.8	1664.1	1307.0	1175.6	1084.7	1010.6	956.7	926.3	909.5
13868.2	30°	10307.7	6093.7	1586.6	1212.7	1088.0	997.1	923.0	872.4	848.9	842.1
14730.6	32.5°	10802.9	6120.6	1620.3	1179.0	1007.2	916.2	845.5	808.4	784.9	784.9
15690.6	35°	11331.7	6113.9	1670.8	1209.3	953.3	835.4	781.5	757.9	734.3	734.3
16755.1	37.5°	11995.3	6124.0	1711.2	1259.8	933.1	768.0	737.7	707.4	693.9	693.9
17920.6	40°	12985.7	6457.5	1691.0	1303.6	926.3	720.9	660.2	650.1	640.0	640.0
19237.7	42.5°	14198.4	7181.7	1718.0	1307.0	923.0	687.2	606.3	626.5	603.0	599.6
20723.2	45°	15525.6	7973.3	1889.7	1236.3	919.6	670.3	579.4	603.0	565.9	565.9
22444.5	47.5°	16842.7	8758.2	2064.9	1135.2	909.5	667.0	555.8	542.3	532.2	535.6
24688.0	50°	18658.3	9398.2	2132.3	997.1	885.9	660.2	512.0	515.4	508.6	515.4
27851.0	52.5°	20635.6	9532.9	2051.4	842.1	818.6	640.0	481.7	495.2	491.8	498.5
30077.6	55°	21868.5	9388.1	1694.4	700.7	714.1	559.2	451.4	478.3	478.3	478.3
32253.7	57.5°	23141.8	8771.7	1202.6	569.3	592.9	458.1	424.4	461.5	458.1	454.8
34874.4	60°	24058.0	7774.6	791.6	468.2	471.6	377.3	394.1	434.5	431.2	414.3
37576.0	62.5°	24741.9	6673.1	508.6	397.5	360.4	340.2	360.4	394.1	380.6	343.6
39866.6	65°	24664.4	5147.1	390.7	340.2	296.4	296.4	313.3	343.6	303.2	242.5
40304.5	67.5°	23226.0	3483.1	323.4	286.3	249.3	245.9	259.4	286.3	259.4	205.5
38061.0	70°	20655.8	2277.1	259.4	222.3	198.7	181.9	208.8	245.9	219.0	165.1
32401.9	72.5°	16765.2	1387.8	195.4	161.7	144.8	117.9	165.1	202.1	175.2	121.3
22532.1	75°	10846.7	707.4	134.7	104.4	77.5	70.7	121.3	151.6	121.3	74.1
9997.8	77.5°	4150.0	296.4	74.1	47.2	40.4	33.7	67.4	91.0	50.5	16.8
1936.9	80°	798.3	124.6	37.1	23.6	20.2	13.5	10.1	6.7	0.0	0.0
343.6	82.5°	138.1	40.4	13.5	6.7	0.0	0.0	0.0	0.0	0.0	0.0
67.4	85°	47.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.6	87.5°	16.8	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

<u>180°</u>
6255.4
3796.3
2223.2
1808.9
1670.8
1542.8
1421.5
1310.4
1202.6
1098.1
993.7
909.5
838.8
784.9
734.3
693.9
640.0
596.2
565.9
535.6
515.4
498.5
478.3
454.8
414.3
336.9
235.8
198.7
158.3
114.5
64.0
13.5
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