

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: P954719

Luminaire Tested: **GALN-SB7D-850-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954719  
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-850-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

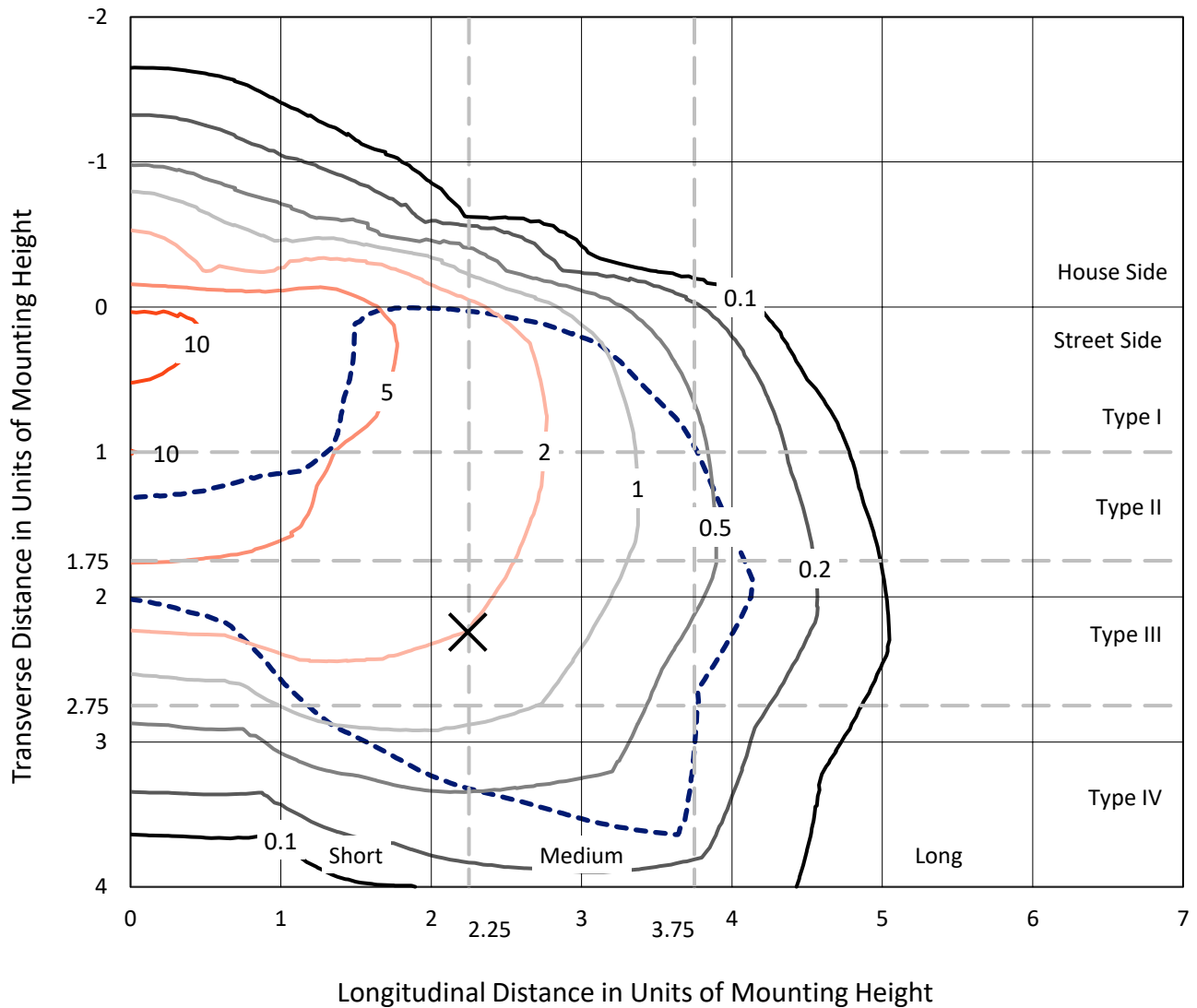
Lumens per Lamp: N/A  
Luminaire Lumens: 53321 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

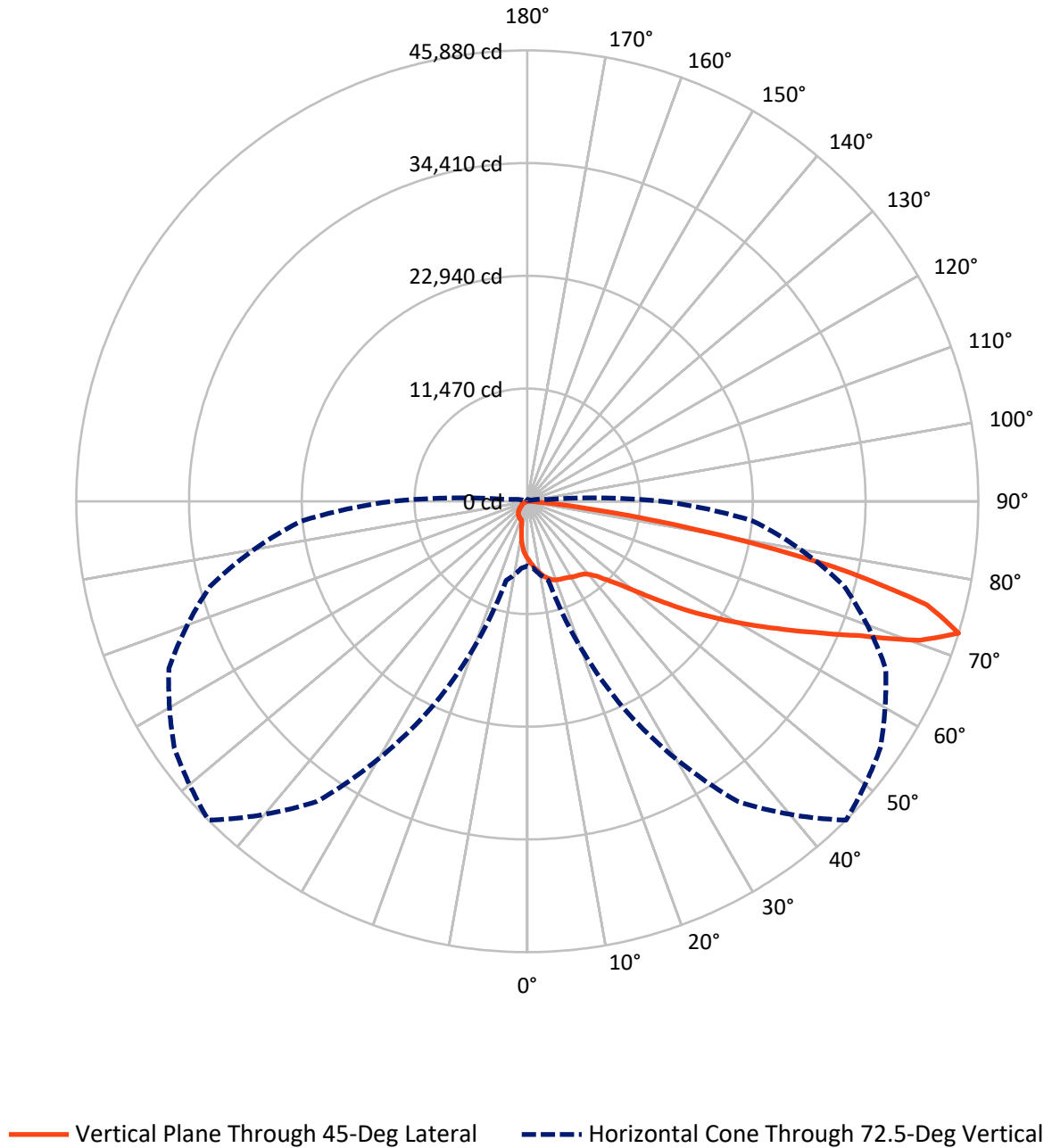
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5602.6	0.0	5602.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	47718.4	0.0	47718.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	53321.0	0.0	53321.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.4	1.0
10°-20°	1608.5	3.0
20°-30°	2641.5	5.0
30°-40°	3746.2	7.0
40°-50°	6192.1	11.6
50°-60°	11123.4	20.9
60°-70°	15445.4	29.0
70°-80°	11203.6	21.0
80°-90°	810.0	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°	53321.0	100.0
0°-180°	53321.0	100.0

**Coefficient of Utilization**

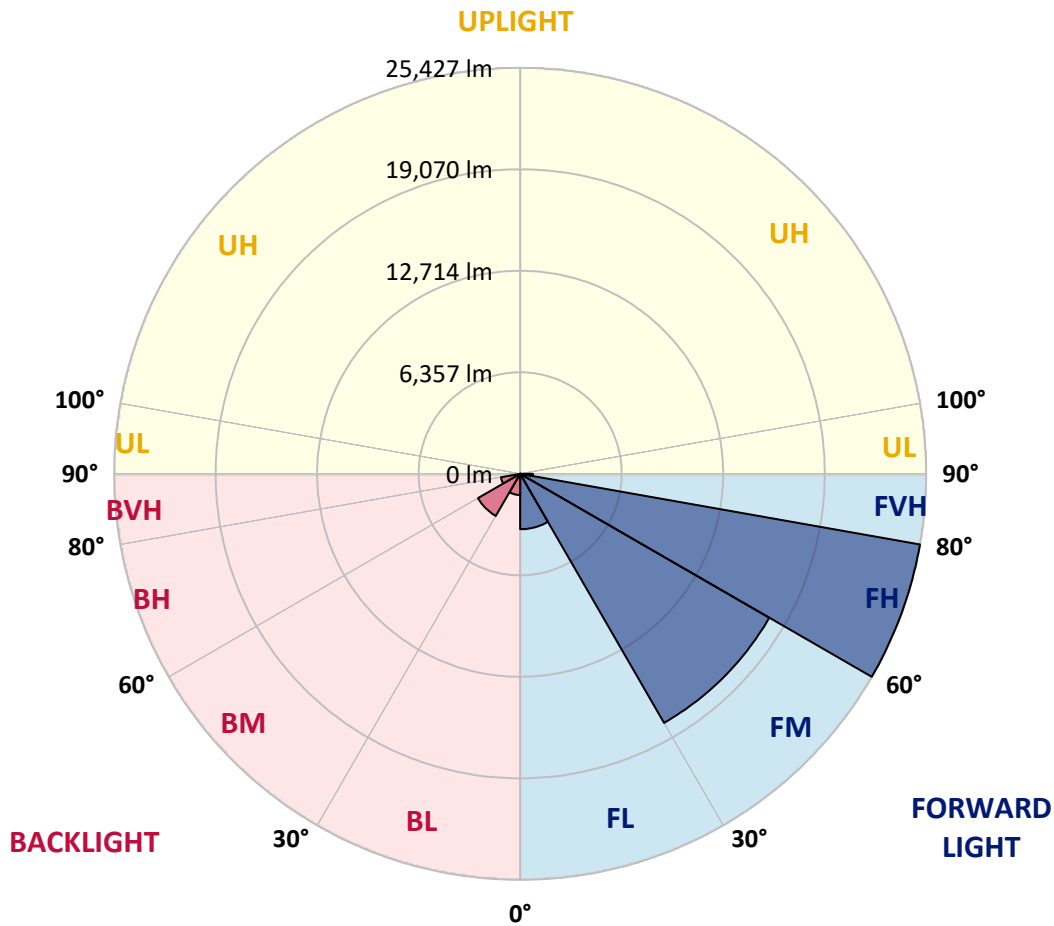


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3473.3	6.5			
FM (30°-60°)	18014.7	33.8			
FH (60°-80°)	25427.3	47.7			G5
FVH (80°-90°)	803.2	1.5			G5
BL (0°-30°)	1327.0	2.5	B3/2500		
BM (30°-60°)	3047.0	5.7	B3/5000		
BH (60°-80°)	1221.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.8	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4
2.5°	6380.1	6391.0	6383.7	6340.0	6267.3	6227.2	6205.4	6132.6	6085.3	6001.6
5°	6966.0	7009.7	6984.2	6896.9	6758.6	6660.3	6631.2	6482.0	6347.3	6190.8
7.5°	7588.4	7610.2	7562.9	7450.1	7264.5	7097.1	7071.6	6864.1	6649.4	6409.2
10°	8127.0	8152.5	8079.7	7916.0	7704.9	7497.4	7461.0	7231.7	6977.0	6682.2
12.5°	8578.3	8603.8	8509.2	8312.7	8079.7	7865.0	7828.6	7588.4	7308.2	6980.6
15°	8920.5	8967.8	8840.4	8629.3	8378.2	8163.4	8145.2	7908.7	7635.7	7271.8
17.5°	9120.6	9167.9	9047.8	8793.1	8578.3	8396.4	8374.5	8178.0	7923.2	7573.8
20°	9153.4	9197.1	9069.7	8847.7	8669.3	8523.8	8512.8	8370.9	8185.3	7850.4
22.5°	9055.1	9109.7	8993.3	8814.9	8691.2	8614.7	8600.2	8520.1	8414.6	8130.7
25°	8953.2	8996.9	8909.5	8753.0	8687.5	8680.3	8691.2	8676.6	8654.8	8414.6
27.5°	8945.9	8993.3	8895.0	8745.8	8709.4	8785.8	8796.7	8865.9	8884.1	8673.0
30°	9007.8	9040.6	8945.9	8789.4	8771.2	8945.9	8949.6	9073.3	9102.4	8891.3
32.5°	9142.5	9178.9	9084.2	8855.0	8829.5	9073.3	9084.2	9248.0	9295.3	9124.3
35°	9459.1	9502.8	9393.6	9036.9	8945.9	9193.4	9226.2	9419.1	9513.7	9371.8
37.5°	10248.9	10121.5	9972.3	9404.5	9211.6	9382.7	9437.3	9662.9	9830.3	9666.6
40°	12210.6	11810.2	11344.4	10030.5	9677.5	9786.7	9830.3	10056.0	10285.3	10125.1
42.5°	15155.0	14681.8	13932.1	11471.8	10379.9	10434.5	10467.3	10663.8	10987.7	10860.3
45°	17779.1	17608.0	16843.7	13932.1	11693.8	11424.5	11464.5	11566.4	12043.2	11995.9
47.5°	19795.3	19697.1	19107.5	16756.3	13913.9	12636.4	12749.2	12796.6	13484.4	13651.8
50°	21345.8	21309.4	20781.7	19267.6	16814.6	14423.4	14463.5	14361.5	15391.5	15806.4
52.5°	22808.9	22932.6	22543.2	21600.5	19911.8	16763.6	16756.3	16275.9	17666.2	18292.2
55°	24130.0	24173.7	24213.7	23980.8	23027.2	19427.8	19358.6	18572.5	20304.9	20952.7
57.5°	25371.1	25389.3	25746.0	26222.7	26270.1	22288.4	22161.0	21218.4	23187.4	23649.6
60°	26204.5	26288.3	27041.6	28366.4	28945.1	25240.1	25170.9	24210.1	26120.8	26335.6
62.5°	25003.5	25513.0	27412.9	30040.6	31470.9	28512.0	28479.2	27576.6	29207.1	29032.4
65°	20239.4	21101.9	24443.0	31172.5	33949.4	32166.1	32213.4	31252.6	32377.2	31809.4
67.5°	14157.7	15067.6	19020.1	31263.5	36719.1	36457.1	36730.0	35223.3	35743.7	34469.9
70°	9790.3	10259.8	12832.9	29305.4	38877.3	42367.6	42360.4	40100.2	39092.1	35681.9
72.5°	6583.9	6827.7	8334.5	23249.3	37290.5	45879.8	45668.7	43827.1	40220.3	33370.8
75°	2777.0	2955.3	3857.9	13065.9	29501.9	41974.6	41403.2	38731.8	35736.4	26277.3
77.5°	880.8	957.2	1521.3	4676.8	16250.5	31551.0	30946.8	24188.2	23951.7	13182.3
80°	418.5	487.7	855.3	1878.0	6394.6	17160.3	17076.6	10973.2	10303.5	3559.5
82.5°	182.0	214.7	473.1	1004.5	2860.7	6121.7	6245.4	3734.1	3090.0	1350.3
85°	58.2	76.4	218.4	462.2	1208.3	1521.3	1503.1	888.0	1244.7	735.2
87.5°	0.0	0.0	72.8	105.5	123.7	87.3	98.3	76.4	345.8	203.8
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°
5841.4	0°	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4	5841.4
5914.2	2.5°	5870.5	5812.3	5710.4	5615.8	5532.1	5448.4	5397.4	5324.6	5317.3	5317.3
6008.8	5°	5910.6	5816.0	5634.0	5441.1	5219.1	5008.0	4796.9	4593.1	4527.6	4480.2
6161.7	7.5°	6027.0	5877.8	5590.3	5222.7	4800.5	4338.3	4014.4	3665.0	3530.3	3457.5
6365.5	10°	6194.5	5990.6	5553.9	4909.7	4225.5	3595.8	3133.6	2755.1	2609.5	2547.7
6587.5	12.5°	6380.1	6129.0	5488.4	4520.3	3595.8	2842.5	2391.2	2216.5	2194.6	2194.6
6853.2	15°	6602.1	6296.4	5375.6	4061.7	2937.1	2249.2	2089.1	2096.4	2118.2	2132.8
7111.6	17.5°	6831.4	6474.7	5197.2	3548.5	2354.8	2023.6	2027.2	2038.1	2056.3	2070.9
7391.9	20°	7078.9	6653.0	4960.7	3002.6	2019.9	1958.1	1969.0	1979.9	1994.5	2001.7
7653.9	22.5°	7344.6	6820.5	4680.4	2467.6	1907.1	1903.5	1907.1	1918.0	1936.2	1936.2
7959.6	25°	7628.4	7006.1	4360.1	2078.2	1848.9	1848.9	1856.2	1863.4	1878.0	1878.0
8254.4	27.5°	7919.6	7177.1	4021.7	1874.4	1797.9	1794.3	1794.3	1805.2	1812.5	1816.1
8545.6	30°	8239.9	7377.3	3683.2	1830.7	1757.9	1739.7	1728.8	1736.1	1743.3	1747.0
8851.3	32.5°	8567.4	7570.2	3381.1	1848.9	1717.9	1685.1	1648.7	1641.4	1641.4	1656.0
9167.9	35°	8931.4	7781.3	3148.2	1910.7	1696.0	1605.0	1546.8	1514.0	1517.7	1539.5
9546.5	37.5°	9368.1	8036.1	2977.1	1965.3	1681.5	1514.0	1419.4	1379.4	1353.9	1379.4
10066.9	40°	9939.5	8410.9	2853.4	2009.0	1663.3	1408.5	1281.1	1215.6	1168.3	1182.8
10874.9	42.5°	10780.3	9000.5	2806.1	2012.7	1623.2	1284.8	1139.2	1051.8	982.7	986.3
12090.5	45°	11959.5	9932.2	3049.9	1965.3	1535.9	1150.1	989.9	873.5	829.8	818.9
13906.6	47.5°	13575.4	11289.8	3614.0	1867.1	1408.5	1019.1	844.4	746.1	713.3	695.1
16290.5	50°	15740.9	13033.1	4240.0	1757.9	1281.1	895.3	724.3	662.4	640.6	622.4
19118.4	52.5°	18252.2	14801.9	4753.2	1648.7	1153.7	786.1	647.8	611.4	593.2	578.7
21848.0	55°	20556.0	16021.2	4724.1	1532.2	1030.0	698.8	593.2	571.4	549.6	535.0
24199.2	57.5°	21990.0	16192.2	3894.3	1404.9	888.0	629.6	542.3	527.7	502.3	484.1
26233.7	60°	22648.7	15216.8	2729.6	1237.4	746.1	564.1	487.7	480.4	447.7	422.2
28159.0	62.5°	22768.8	13404.4	1819.8	1030.0	622.4	502.3	433.1	422.2	378.5	334.8
29724.0	65°	22281.1	10813.0	1259.3	804.3	531.4	436.7	371.2	349.4	302.1	258.4
30095.2	67.5°	20738.0	7592.0	877.1	578.7	451.3	345.8	294.8	287.5	251.1	214.7
28202.6	70°	17910.1	4327.4	586.0	433.1	356.7	236.6	232.9	240.2	203.8	174.7
23041.8	72.5°	13731.9	1979.9	364.0	316.6	243.8	160.1	185.6	189.3	156.5	131.0
14376.1	75°	8083.4	848.0	229.3	203.8	123.7	105.5	134.7	138.3	105.5	83.7
5255.5	77.5°	2751.5	320.3	145.6	120.1	61.9	58.2	87.3	87.3	58.2	32.8
1055.5	80°	626.0	120.1	72.8	47.3	29.1	25.5	29.1	25.5	14.6	3.6
323.9	82.5°	178.3	47.3	29.1	18.2	10.9	10.9	3.6	0.0	0.0	0.0
112.8	85°	51.0	21.8	7.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
40.0	87.5°	21.8	3.6	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

<u>180°</u>
5841.4
5335.5
4502.1
3468.5
2547.7
2194.6
2132.8
2070.9
2005.4
1943.5
1881.6
1819.8
1754.2
1666.9
1550.4
1372.1
1175.6
971.8
804.3
684.2
618.7
575.0
527.7
480.4
414.9
313.0
243.8
203.8
160.1
116.5
72.8
25.5
0.0
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0.0
0.0
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