

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: P953999

Luminaire Tested: **GALN-SB7B-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953999
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-SB7B-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA 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: 32432 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

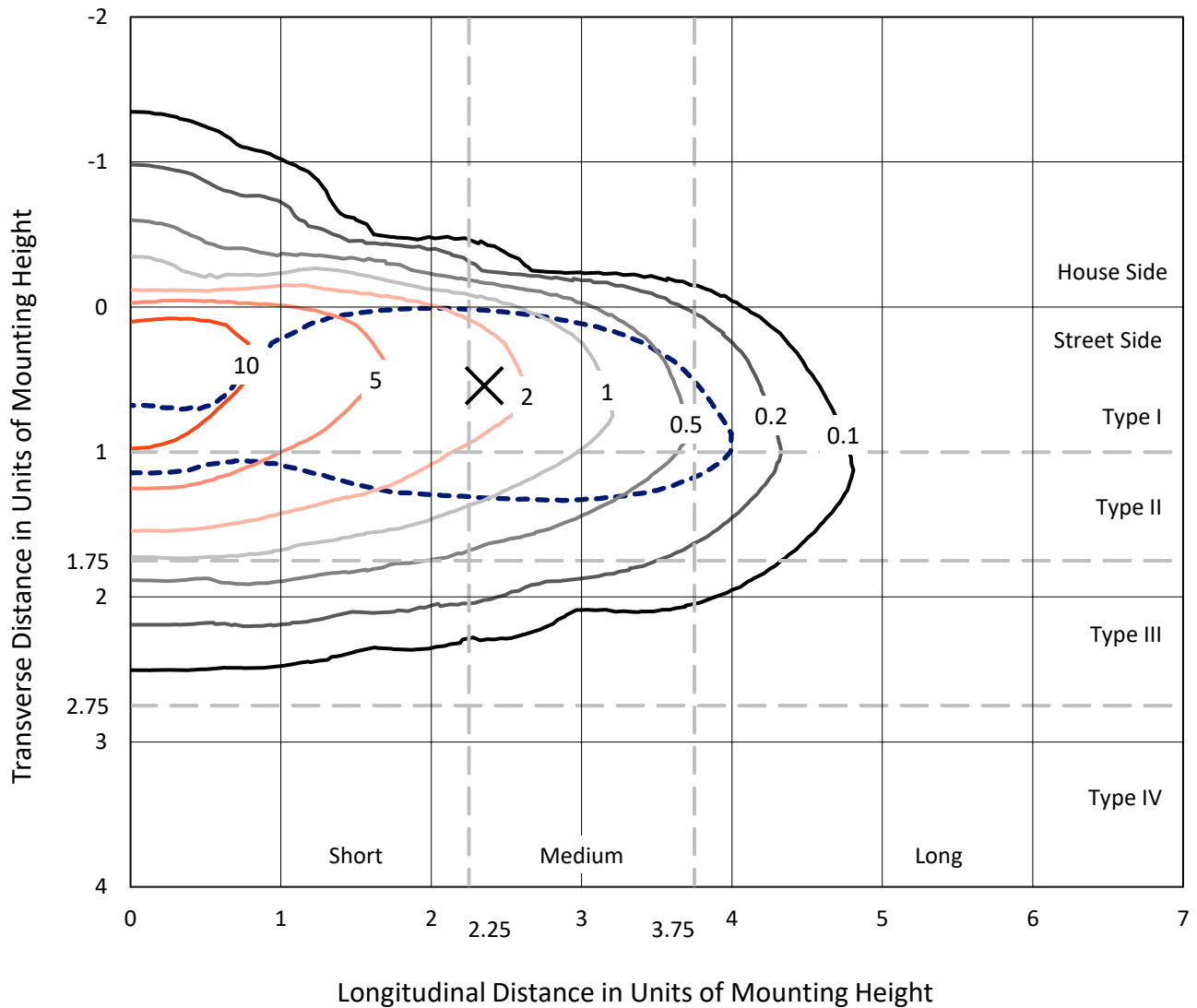
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

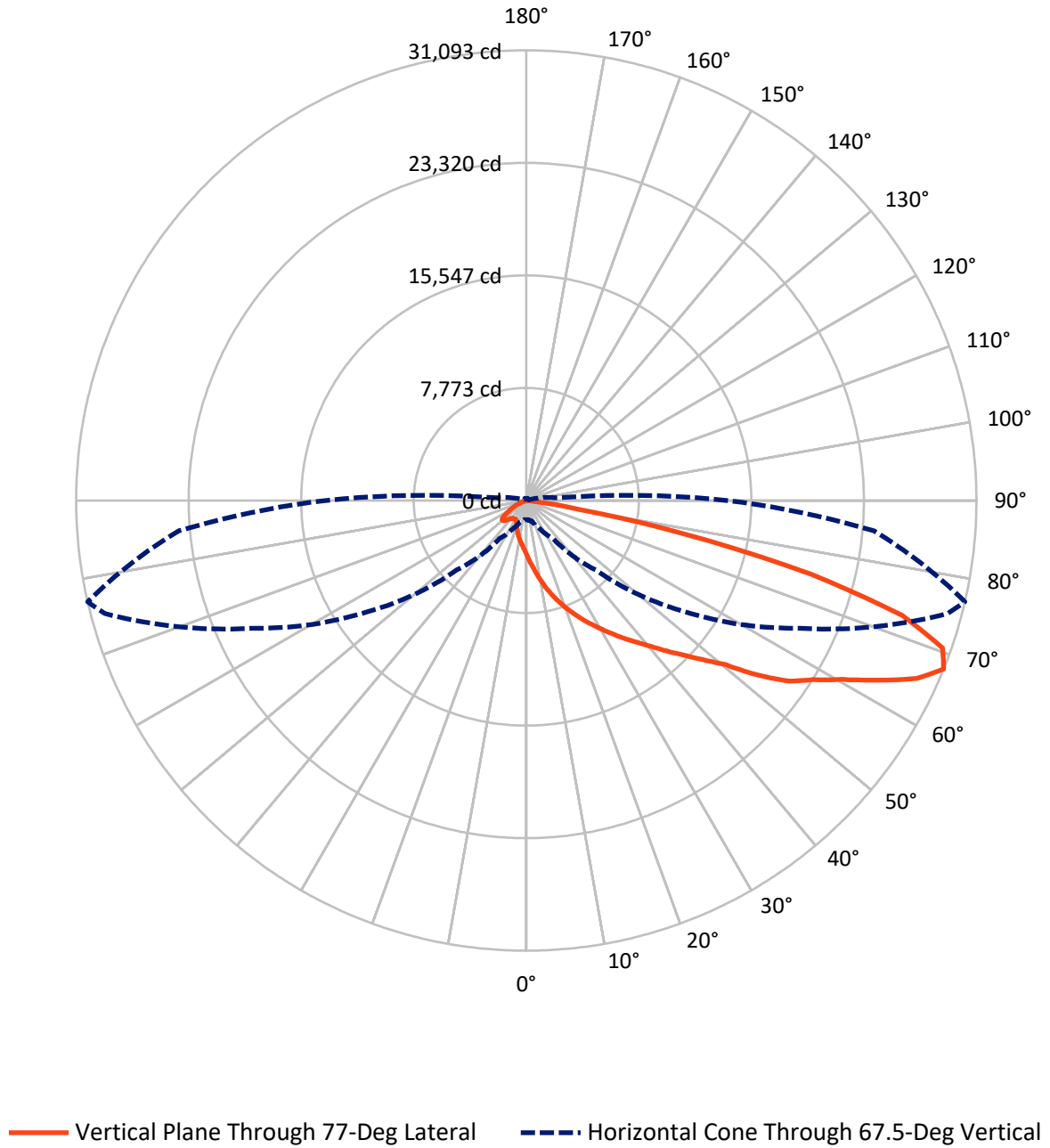
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	2386.0	0.0	2386.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	30046.0	0.0	30046.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	32432.0	0.0	32432.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	1.2
10°-20°	1336.7	4.1
20°-30°	2579.5	8.0
30°-40°	4478.2	13.8
40°-50°	6502.1	20.0
50°-60°	7466.8	23.0
60°-70°	6482.6	20.0
70°-80°	3053.4	9.4
80°-90°	151.0	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°	32432.0	100.0
0°-180°	32432.0	100.0

Coefficient of Utilization



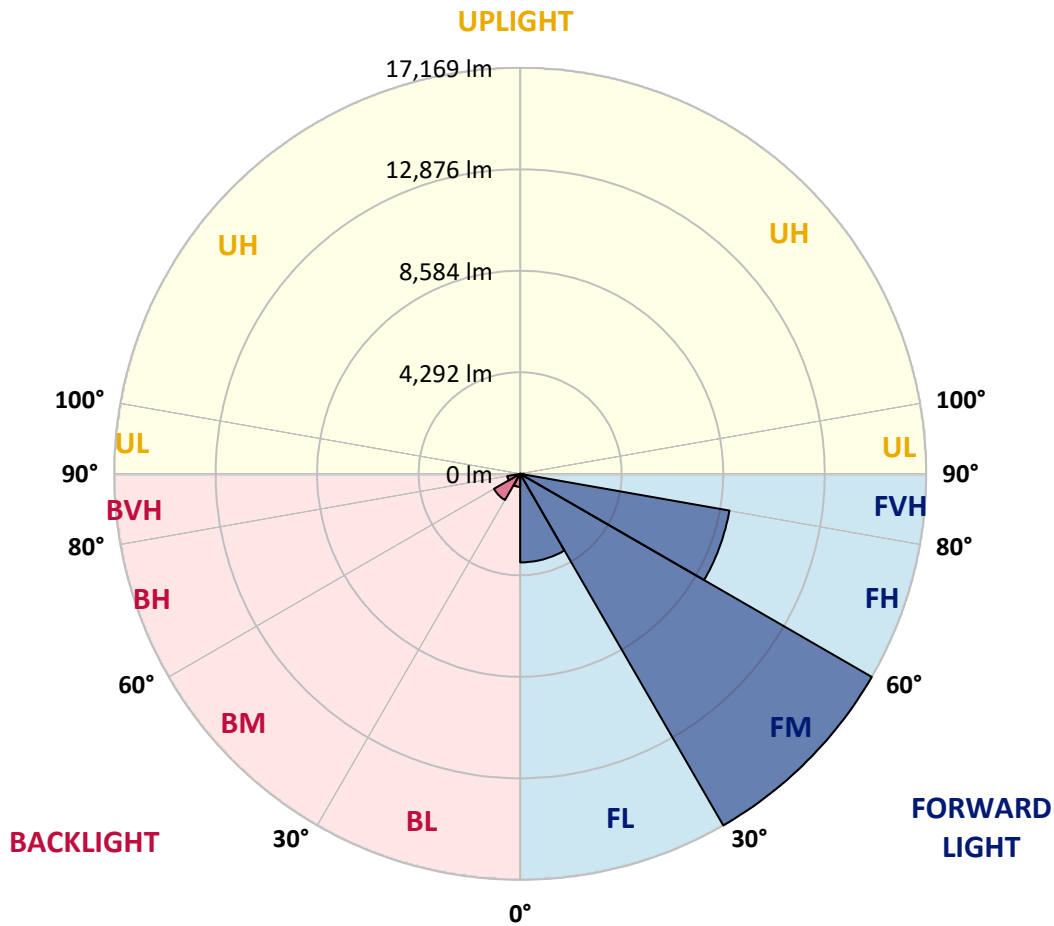
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3745.5	11.5			
FM (30°-60°)	17168.6	52.9			
FH (60°-80°)	8983.6	27.7			G4/12000
FVH (80°-90°)	148.2	0.5			G2/225
BL (0°-30°)	552.4	1.7	B2/1000		
BM (30°-60°)	1278.5	3.9	B2/2500		
BH (60°-80°)	552.4	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9
2.5°	5177.8	5210.1	5163.7	5075.1	4942.2	4855.6	4644.1	4444.8	4223.2	4152.7
5°	6311.7	6339.9	6287.5	6190.9	6013.6	5844.5	5566.5	5149.6	4716.6	4577.7
7.5°	7151.5	7167.6	7147.5	7058.9	6889.7	6698.4	6388.2	5894.8	5252.4	5099.3
10°	7755.7	7808.0	7802.0	7767.8	7655.0	7499.9	7169.6	6607.7	5852.5	5655.1
12.5°	8156.5	8214.9	8249.1	8325.6	8319.6	8220.9	7930.9	7336.8	6450.6	6219.0
15°	8273.3	8335.7	8466.6	8643.8	8800.9	8851.3	8647.9	8051.7	7109.2	6813.2
17.5°	8206.8	8303.5	8460.6	8740.5	9084.9	9312.5	9290.3	8742.5	7707.3	7369.0
20°	8353.8	8446.5	8569.3	8804.9	9205.7	9618.6	9783.7	9403.1	8301.5	7947.0
22.5°	9167.5	9151.3	9163.4	9201.7	9441.4	9850.2	10190.5	10003.2	8889.5	8527.0
25°	10456.4	10383.9	10261.0	10053.6	9993.2	10190.5	10545.0	10534.9	9509.8	9121.1
27.5°	11934.6	11922.5	11634.5	11135.1	10853.1	10776.6	10945.8	11052.5	10124.1	9709.2
30°	13350.4	13382.6	12993.9	12438.1	11920.5	11620.4	11467.4	11543.9	10748.4	10343.6
32.5°	14582.9	14617.2	14194.2	13543.7	12903.3	12540.8	12218.6	12029.3	11429.1	10988.1
35°	15624.1	15658.4	15173.0	14454.0	13771.3	13443.0	13078.5	12560.9	12113.8	11703.0
37.5°	16554.6	16544.5	15894.0	15169.0	14498.4	14238.6	14047.2	13215.5	12818.7	12422.0
40°	17104.4	17146.7	16590.8	15791.3	15140.8	14951.5	14939.4	14027.1	13632.4	13247.7
42.5°	17265.5	17340.0	16937.2	16280.7	15690.6	15485.2	15801.4	14905.2	14578.9	14204.3
45°	16975.5	17048.0	16864.7	16409.6	16065.2	15932.3	16542.5	15815.5	15589.9	15219.3
47.5°	16129.6	16220.3	16264.6	16167.9	16163.9	16298.8	17207.1	16774.1	16790.2	16411.6
50°	14492.3	14645.4	15052.2	15394.6	15924.2	16588.8	17853.6	17813.3	18143.6	17817.3
52.5°	11515.7	11733.2	13134.9	14071.4	15261.6	16534.4	18564.5	19480.8	20518.0	20040.7
55°	9254.1	9254.1	10393.9	12146.1	13968.7	16176.0	18874.6	20564.3	22135.2	22022.4
57.5°	7544.2	7634.8	8361.9	9910.6	12097.7	15322.1	19066.0	21245.1	23438.2	23355.7
60°	4656.2	4851.6	6225.1	7753.7	9969.0	13801.5	18945.1	21933.8	25019.2	25085.6
62.5°	2622.1	2694.7	3306.9	5578.6	7751.7	11757.4	18020.7	22318.5	27041.2	27323.1
65°	1810.5	1846.8	2082.4	3472.0	5373.2	9360.8	16214.2	22078.8	29067.2	29637.1
67.5°	1315.1	1333.2	1480.2	2120.7	3188.1	6787.0	13382.6	20870.5	30140.6	31093.2
70°	1011.0	1023.1	1129.8	1393.6	1883.0	4189.0	9719.3	18467.8	29363.2	30501.1
72.5°	821.7	833.8	916.3	1031.1	1248.6	2477.1	5890.8	14997.8	25931.5	27160.0
75°	692.8	708.9	783.4	857.9	978.8	1591.0	2763.1	10444.3	19501.0	20306.6
77.5°	384.7	354.5	636.4	710.9	825.7	1007.0	1292.9	6146.5	10921.6	11145.1
80°	239.7	247.7	505.5	572.0	634.4	507.5	592.1	2366.4	3786.2	3596.9
82.5°	14.1	32.2	388.7	412.9	435.0	217.5	223.5	803.6	912.3	837.8
85°	0.0	0.0	177.2	143.0	151.0	62.4	64.4	187.3	122.9	132.9
87.5°	0.0	0.0	0.0	4.0	0.0	6.0	12.1	16.1	6.0	8.1
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°
3739.9	0°	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9	3739.9
3931.2	2.5°	3790.2	3649.3	3363.3	3083.3	2855.8	2644.3	2493.3	2350.3	2277.8	2273.7
4185.0	5°	3905.0	3609.0	3037.0	2531.5	2124.7	1798.4	1587.0	1435.9	1359.4	1333.2
4497.1	7.5°	4066.1	3621.1	2751.0	2048.2	1568.9	1288.9	1168.1	1119.8	1103.6	1085.5
4849.6	10°	4269.6	3649.3	2495.3	1649.4	1236.6	1095.6	1047.2	1027.1	1015.0	1002.9
5246.3	12.5°	4497.1	3675.4	2241.5	1369.5	1087.5	1015.0	980.8	956.6	940.5	926.4
5653.1	15°	4718.7	3691.6	1977.7	1174.1	1011.0	952.6	916.3	890.2	868.0	851.9
6051.9	17.5°	4938.2	3713.7	1730.0	1057.3	948.6	890.2	853.9	821.7	803.6	785.4
6470.8	20°	5181.9	3709.7	1496.4	974.7	886.1	827.7	789.5	759.3	741.1	721.0
6913.9	22.5°	5407.4	3689.5	1290.9	904.3	821.7	765.3	723.0	692.8	674.7	658.6
7367.0	25°	5667.2	3673.4	1119.8	839.8	761.3	704.9	658.6	630.4	610.2	596.1
7822.1	27.5°	5917.0	3649.3	994.9	781.4	702.9	648.5	604.2	572.0	553.8	543.8
8291.4	30°	6162.7	3643.2	948.6	725.0	650.5	596.1	551.8	521.6	507.5	503.5
8807.0	32.5°	6458.7	3659.3	968.7	704.9	602.2	547.8	505.5	483.3	469.2	469.2
9380.9	35°	6774.9	3655.3	998.9	723.0	569.9	499.5	467.2	453.1	439.0	439.0
10017.3	37.5°	7171.6	3661.3	1023.1	753.2	557.9	459.2	441.1	422.9	414.9	414.9
10714.2	40°	7763.7	3860.7	1011.0	779.4	553.8	431.0	394.7	388.7	382.6	382.6
11501.6	42.5°	8488.8	4293.7	1027.1	781.4	551.8	410.8	362.5	374.6	360.5	358.5
12389.8	45°	9282.2	4767.0	1129.8	739.1	549.8	400.8	346.4	360.5	338.3	338.3
13418.9	47.5°	10069.7	5236.2	1234.5	678.7	543.8	398.8	332.3	324.2	318.2	320.2
14760.2	50°	11155.2	5618.9	1274.8	596.1	529.7	394.7	306.1	308.1	304.1	308.1
16651.3	52.5°	12337.4	5699.4	1226.5	503.5	489.4	382.6	288.0	296.0	294.0	298.1
17982.5	55°	13074.5	5612.9	1013.0	418.9	427.0	334.3	269.9	286.0	286.0	286.0
19283.5	57.5°	13835.8	5244.3	719.0	340.4	354.5	273.9	253.8	275.9	273.9	271.9
20850.3	60°	14383.6	4648.2	473.3	279.9	282.0	225.6	235.6	259.8	257.8	247.7
22465.5	62.5°	14792.4	3989.6	304.1	237.6	215.5	203.4	215.5	235.6	227.6	205.4
23835.0	65°	14746.1	3077.3	233.6	203.4	177.2	177.2	187.3	205.4	181.3	145.0
24096.8	67.5°	13886.1	2082.4	193.3	171.2	149.0	147.0	155.1	171.2	155.1	122.9
22755.5	70°	12349.5	1361.4	155.1	132.9	118.8	108.8	124.9	147.0	130.9	98.7
19372.1	72.5°	10023.4	829.7	116.8	96.7	86.6	70.5	98.7	120.8	104.7	72.5
13471.2	75°	6484.9	422.9	80.6	62.4	46.3	42.3	72.5	90.6	72.5	44.3
5977.4	77.5°	2481.2	177.2	44.3	28.2	24.2	20.1	40.3	54.4	30.2	10.1
1158.0	80°	477.3	74.5	22.2	14.1	12.1	8.1	6.0	4.0	0.0	0.0
205.4	82.5°	82.6	24.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
40.3	85°	28.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14.1	87.5°	10.1	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>
3739.9
2269.7
1329.2
1081.5
998.9
922.4
849.9
783.4
719.0
656.5
594.1
543.8
501.5
469.2
439.0
414.9
382.6
356.5
338.3
320.2
308.1
298.1
286.0
271.9
247.7
201.4
141.0
<i>118.8</i>
94.7
68.5
38.3
8.1
0.0
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