

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: P951712

Luminaire Tested: **GALN-SB5D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5D-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41562 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

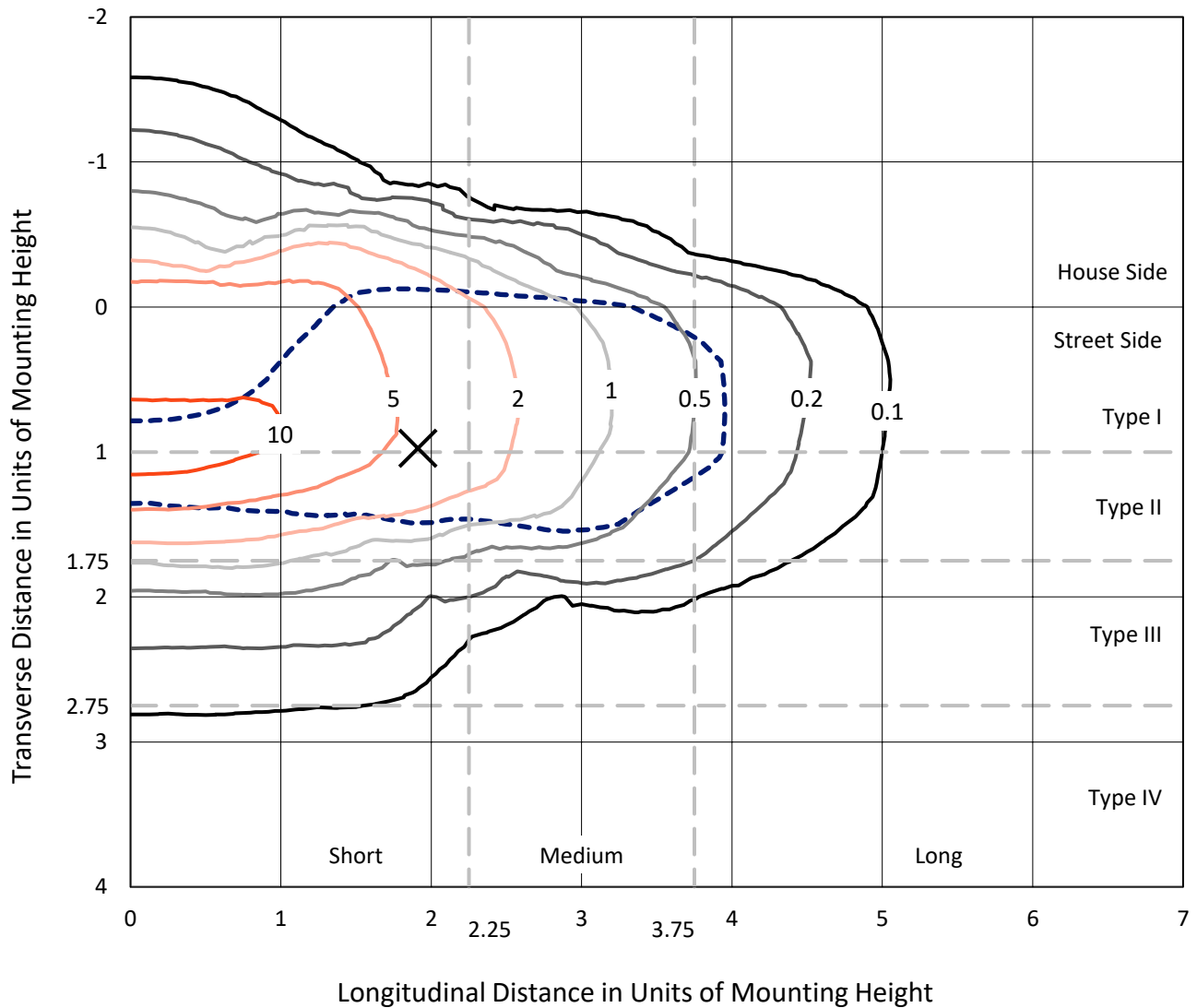
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

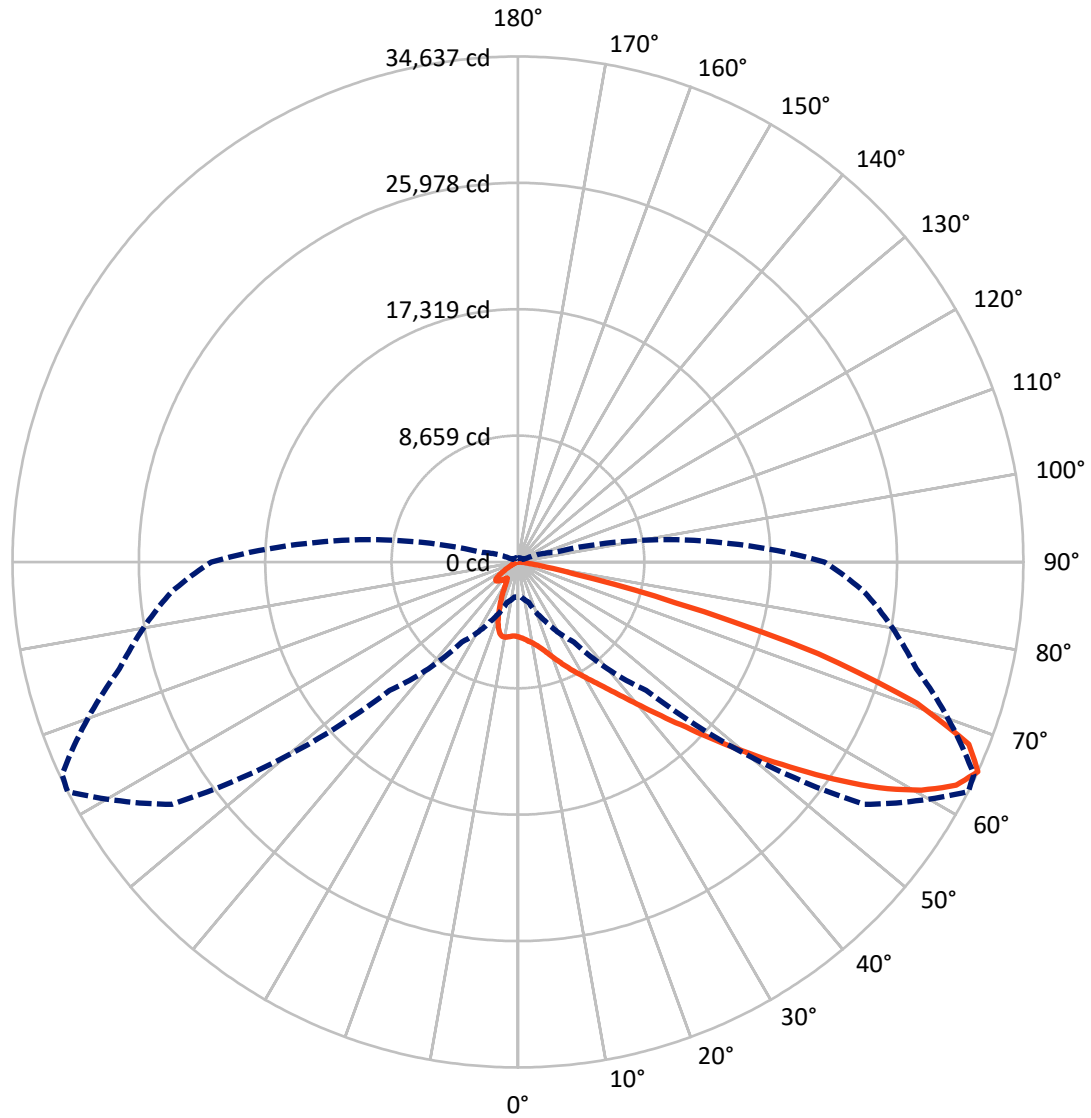
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6109.3	0.0	6109.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35452.7	0.0	35452.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	41562.0	0.0	41562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.3	1.2
10°-20°	1341.0	3.2
20°-30°	2335.0	5.6
30°-40°	4208.6	10.1
40°-50°	8346.9	20.1
50°-60°	11369.9	27.4
60°-70°	9075.4	21.8
70°-80°	4106.8	9.9
80°-90°	295.2	0.7
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°	41562.0	100.0
0°-180°	41562.0	100.0



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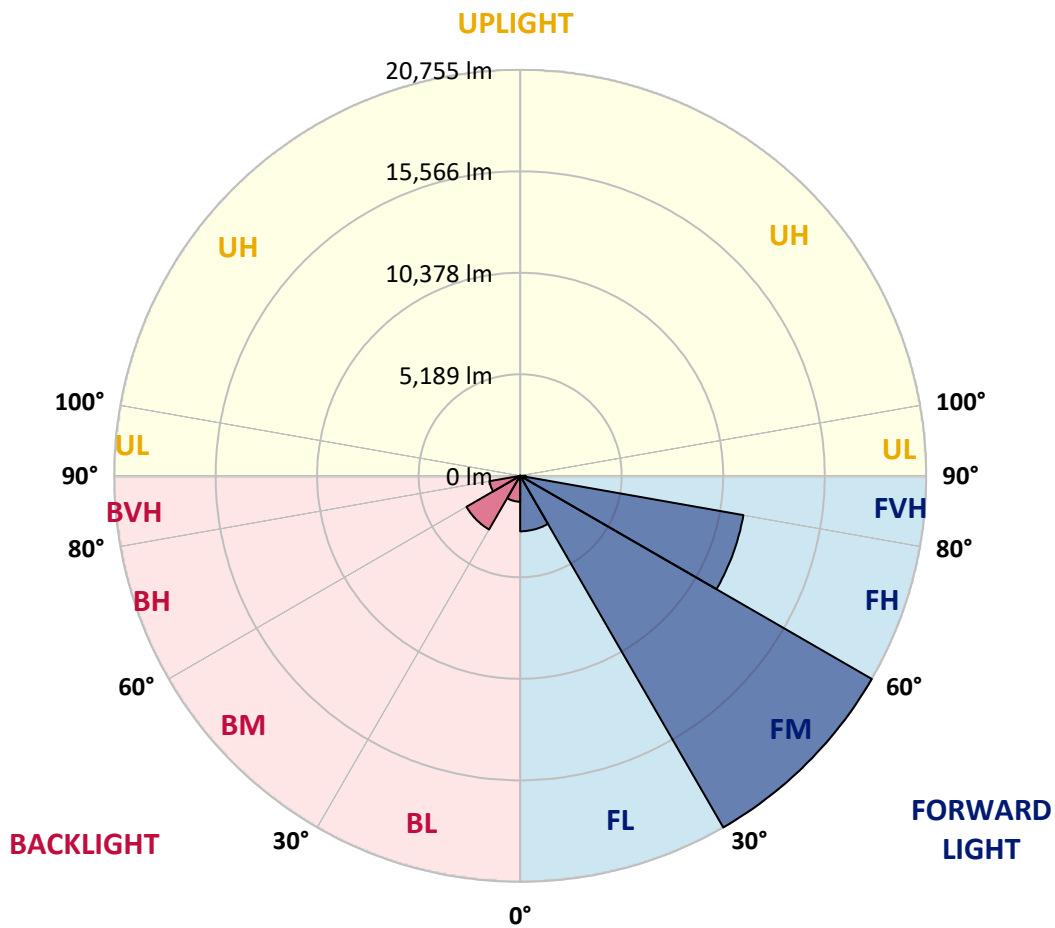
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.1	6.8			
FM (30°-60°)	20755.0	49.9			
FH (60°-80°)	11587.3	27.9			G4/12000
FVH (80°-90°)	273.3	0.7			G3/500
BL (0°-30°)	1322.1	3.2	B3/2500		
BM (30°-60°)	3170.4	7.6	B3/5000		
BH (60°-80°)	1594.9	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5
2.5°	5249.6	5235.3	5255.3	5246.8	5241.0	5229.6	5223.9	5218.2	5206.7	5198.2
5°	5263.9	5255.3	5275.4	5292.5	5309.7	5326.8	5335.4	5346.8	5335.4	5312.5
7.5°	5143.8	5138.1	5181.0	5232.5	5309.7	5375.4	5446.9	5486.9	5489.8	5481.2
10°	5135.3	5121.0	5163.8	5226.8	5326.8	5444.1	5569.9	5655.6	5667.1	5704.3
12.5°	5269.6	5255.3	5315.4	5384.0	5486.9	5609.9	5764.3	5884.4	5901.5	5953.0
15°	5495.5	5475.5	5544.1	5632.8	5764.3	5904.4	6067.4	6176.0	6190.3	6253.2
17.5°	5758.6	5738.6	5818.6	5913.0	6055.9	6247.5	6436.2	6556.3	6573.5	6613.5
20°	6096.0	6070.2	6133.1	6218.9	6370.5	6599.2	6825.1	6996.6	6993.8	6993.8
22.5°	6487.7	6447.7	6502.0	6570.6	6713.6	6990.9	7291.1	7494.2	7494.2	7414.1
25°	6908.0	6868.0	6928.0	6990.9	7116.7	7431.3	7782.9	8034.6	8046.0	7908.7
27.5°	7434.1	7382.6	7428.4	7502.7	7577.1	7897.3	8314.8	8606.4	8612.1	8400.5
30°	8446.3	8300.5	8157.5	8077.4	8111.8	8429.1	8875.2	9198.3	9226.9	8935.2
32.5°	10299.1	10270.5	9767.3	9109.6	8766.5	9001.0	9501.4	9890.2	9907.4	9532.8
35°	13178.4	13144.1	12334.9	11082.5	9964.6	9767.3	10261.9	10722.3	10710.8	10287.7
37.5°	16615.2	16583.8	15517.3	13841.7	12031.8	10925.3	11242.7	11725.9	11797.4	11242.7
40°	19551.7	19434.5	18759.7	17144.2	14776.7	12846.7	12638.0	12958.2	13032.6	12374.9
42.5°	21776.2	21676.2	21333.0	20323.7	18099.2	15688.8	14282.1	14405.0	14487.9	13698.8
45°	22928.5	22905.6	23042.9	22948.5	21484.6	19177.1	16632.4	16120.6	16152.0	15165.6
47.5°	23091.5	23080.1	23706.2	24592.6	24395.3	23111.5	19648.9	18259.3	18147.8	16821.1
50°	22130.8	22107.9	23308.8	24970.0	26339.6	26416.8	23074.3	20669.7	20423.8	18533.8
52.5°	19062.8	19057.1	21030.0	23794.9	27023.0	29310.4	26459.7	23317.4	22905.6	20346.6
55°	14668.1	14773.9	17035.5	20303.7	25776.3	30702.9	29499.1	26256.7	25624.8	22170.8
57.5°	10390.6	10545.0	12781.0	15691.7	21910.6	29879.4	31554.9	29201.8	28521.3	23989.3
60°	5581.3	5718.5	7957.4	11431.4	16300.7	26808.5	32638.6	31757.9	31114.6	25716.3
62.5°	3325.3	3371.1	4297.5	7379.8	11025.4	20481.0	32178.3	33705.1	33176.1	27166.0
65°	2387.5	2396.1	2862.1	4506.2	6693.6	12443.6	28950.1	34637.2	34474.3	28258.2
67.5°	2010.1	2004.4	2198.8	2993.7	4560.5	6233.2	22188.0	33319.1	34011.1	28950.1
70°	1724.1	1732.7	1961.5	2193.1	3428.3	3528.3	11031.1	29010.2	30485.6	29133.1
72.5°	1283.8	1312.4	1524.0	1998.6	2587.6	2427.5	3808.6	21510.3	24178.0	27449.0
75°	906.4	920.7	1072.2	1681.3	1930.0	1767.0	1944.3	11119.7	14539.4	21044.3
77.5°	697.7	723.4	812.0	1175.2	1901.4	1240.9	1189.5	3848.6	5913.0	12712.3
80°	377.4	423.2	586.2	849.2	1335.3	877.8	589.0	1532.6	2004.4	5944.4
82.5°	194.4	217.3	408.9	611.9	760.6	766.3	291.6	637.6	826.3	1835.7
85°	77.2	94.4	274.5	337.4	391.7	377.4	131.5	257.3	297.4	509.0
87.5°	17.2	28.6	100.1	77.2	74.3	80.1	31.5	60.0	57.2	60.0
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°
5129.5	0°	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5
5163.8	2.5°	5161.0	5149.6	5118.1	5083.8	5043.8	5020.9	5006.6	5003.7	4983.7	4969.4
5278.2	5°	5246.8	5235.3	5175.3	5103.8	5026.6	4966.6	4909.4	4857.9	4783.6	4769.3
5444.1	7.5°	5418.3	5386.9	5289.7	5192.4	5046.6	4872.2	4660.6	4417.6	4200.3	4134.5
5664.2	10°	5629.9	5587.0	5464.1	5292.5	4969.4	4494.8	3983.0	3508.3	3130.9	3025.1
5924.4	12.5°	5870.1	5832.9	5669.9	5352.6	4646.3	3785.7	3002.2	2413.2	2047.2	1955.7
6201.8	15°	6156.0	6101.7	5875.8	5261.1	4068.7	2876.4	2061.5	1712.7	1581.2	1564.0
6519.1	17.5°	6459.1	6370.5	6058.8	4932.2	3291.0	2044.4	1592.6	1492.5	1435.4	1418.2
6839.4	20°	6736.4	6622.1	6167.5	4434.7	2459.0	1592.6	1426.8	1361.0	1309.5	1289.5
7159.6	22.5°	7013.8	6850.8	6167.5	3757.1	1844.2	1412.5	1309.5	1249.5	1189.5	1163.7
7502.7	25°	7302.6	7085.3	6058.8	3002.2	1484.0	1295.3	1198.0	1132.3	1080.8	1049.4
7828.7	27.5°	7582.8	7282.6	5810.0	2287.4	1321.0	1192.3	1095.1	1032.2	983.6	960.7
8183.2	30°	7848.7	7477.0	5461.2	1735.6	1215.2	1092.2	1000.7	946.4	897.8	874.9
8643.6	32.5°	8209.0	7722.9	5089.5	1423.9	1123.7	997.9	915.0	863.5	820.6	803.5
9241.2	35°	8709.3	8086.0	4769.3	1398.2	1046.5	920.7	837.8	789.2	746.3	732.0
10013.2	37.5°	9418.4	8672.2	4600.6	1569.7	983.6	852.1	774.9	723.4	683.4	671.9
10993.9	40°	10293.4	9467.1	4692.1	1741.3	940.7	792.0	717.7	666.2	631.9	617.6
12120.5	42.5°	11331.3	10447.8	5198.2	1872.8	912.1	740.6	663.4	606.2	583.3	577.6
13398.6	45°	12523.6	11525.7	5973.0	2012.9	866.4	691.9	609.0	566.1	549.0	546.1
14788.2	47.5°	13878.9	12709.5	6870.8	2187.3	820.6	646.2	566.1	537.5	523.2	517.5
16237.8	50°	15222.8	13901.8	7794.4	2284.6	783.4	603.3	531.8	509.0	497.5	494.7
17770.4	52.5°	16629.5	15128.4	8540.6	2193.1	752.0	569.0	503.2	486.1	474.6	471.8
19182.9	55°	17970.5	16120.6	8669.3	1861.4	689.1	534.7	471.8	463.2	448.9	448.9
20615.4	57.5°	19125.7	16618.1	7760.1	1366.7	626.2	483.2	440.3	431.8	420.3	417.5
21907.8	60°	20186.5	16475.1	5990.2	920.7	557.6	431.8	400.3	394.6	383.1	368.8
23031.4	62.5°	20784.1	15846.1	4097.3	600.4	488.9	377.4	354.5	351.7	326.0	297.4
23863.5	65°	21009.9	14553.7	2556.2	437.5	408.9	323.1	305.9	300.2	263.1	231.6
24335.3	67.5°	20812.6	12426.4	1289.5	346.0	323.1	268.8	251.6	251.6	225.9	197.3
24306.7	70°	20023.5	9315.5	543.3	277.3	248.8	205.9	205.9	217.3	191.6	160.1
23045.7	72.5°	18310.8	6267.5	288.8	211.6	185.9	145.8	168.7	177.3	151.5	120.1
18862.6	75°	14556.6	3822.8	200.1	157.3	117.2	102.9	128.7	134.4	102.9	80.1
12932.5	77.5°	9956.0	2195.9	134.4	100.1	74.3	60.0	88.6	82.9	54.3	37.2
4986.6	80°	4371.8	915.0	77.2	45.7	28.6	22.9	31.5	22.9	17.2	11.4
683.4	82.5°	511.8	214.4	28.6	17.2	11.4	5.7	2.9	0.0	0.0	0.0
208.7	85°	105.8	25.7	14.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0
37.2	87.5°	20.0	5.7	2.9	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>
5129.5
4983.7
4763.5
4103.1
2985.1
1930.0
1546.9
1409.6
1278.1
1149.4
1037.9
960.7
877.8
803.5
732.0
669.1
614.7
577.6
543.3
517.5
494.7
471.8
446.0
414.6
366.0
291.6
228.7
194.4
157.3
120.1
77.2
40.0
11.4
0.0
0.0
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0.0

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