

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: P947447

Luminaire Tested: **GALN-SB2D-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947447
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-SB2D-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 900mA 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: 18229 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

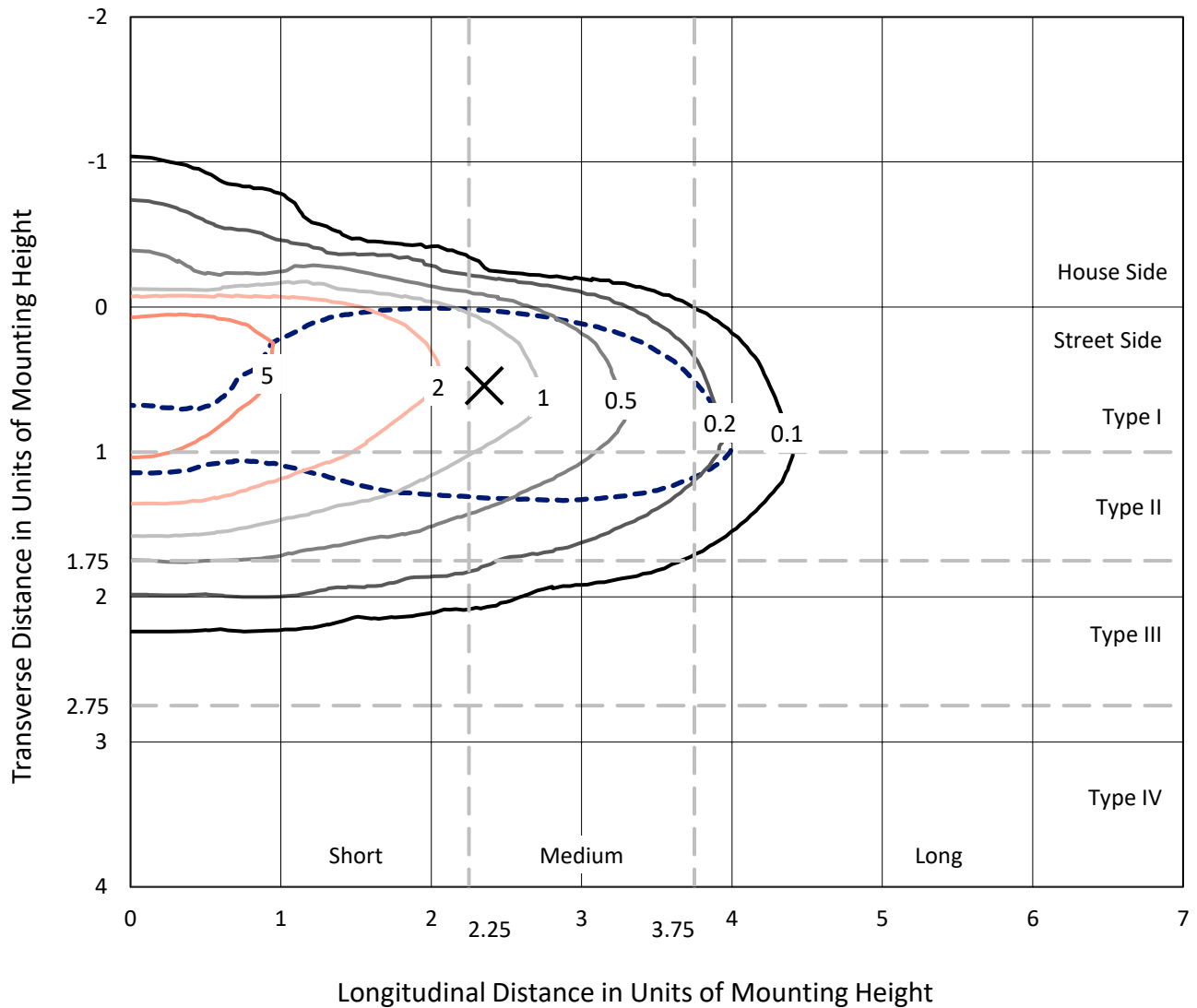
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

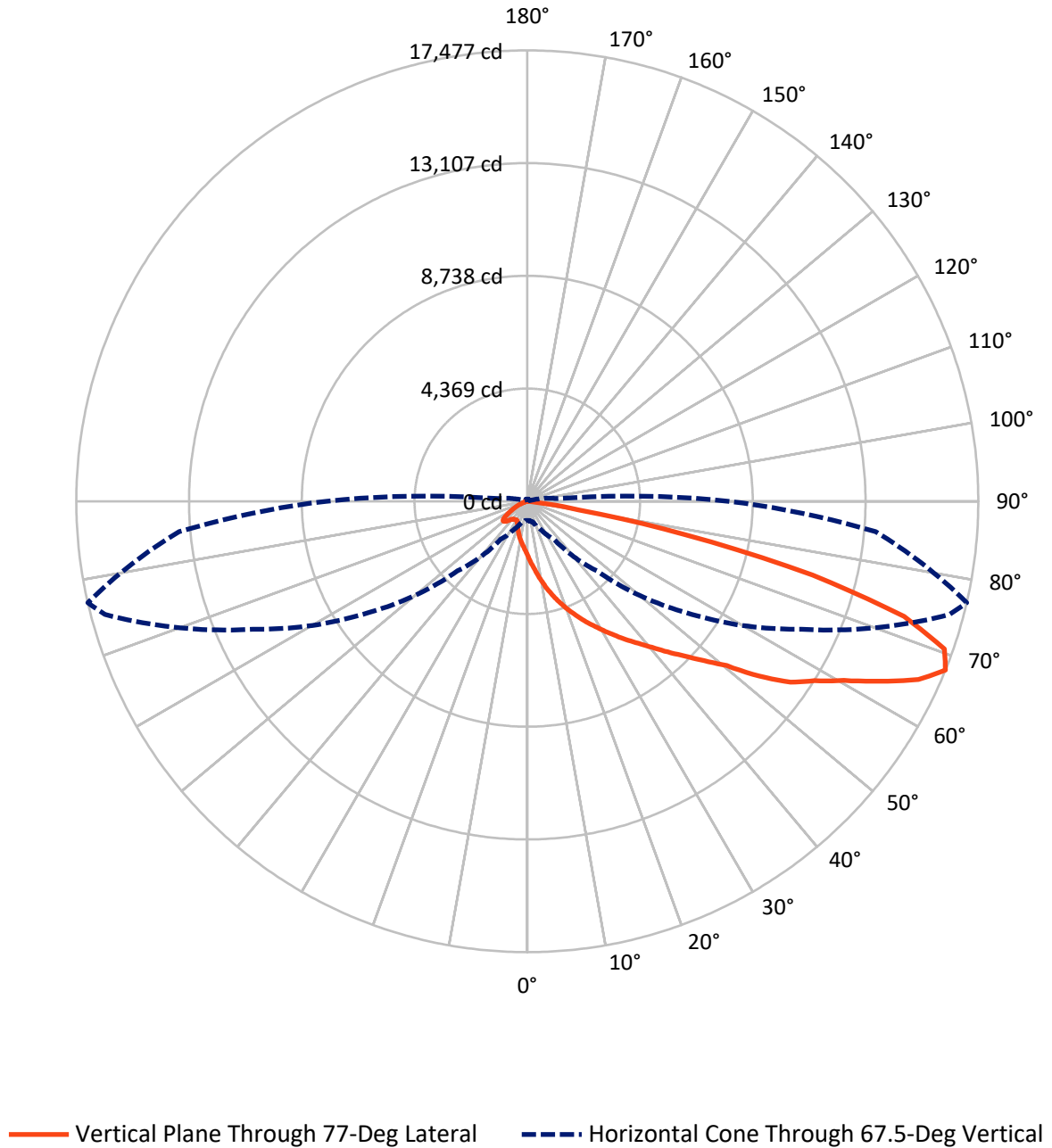
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	1341.1	0.0	1341.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	16887.9	0.0	16887.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	18229.0	0.0	18229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.5	1.2
10°-20°	751.3	4.1
20°-30°	1449.9	8.0
30°-40°	2517.0	13.8
40°-50°	3654.6	20.0
50°-60°	4196.9	23.0
60°-70°	3643.7	20.0
70°-80°	1716.2	9.4
80°-90°	84.9	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°	18229.0	100.0
0°-180°	18229.0	100.0

Coefficient of Utilization



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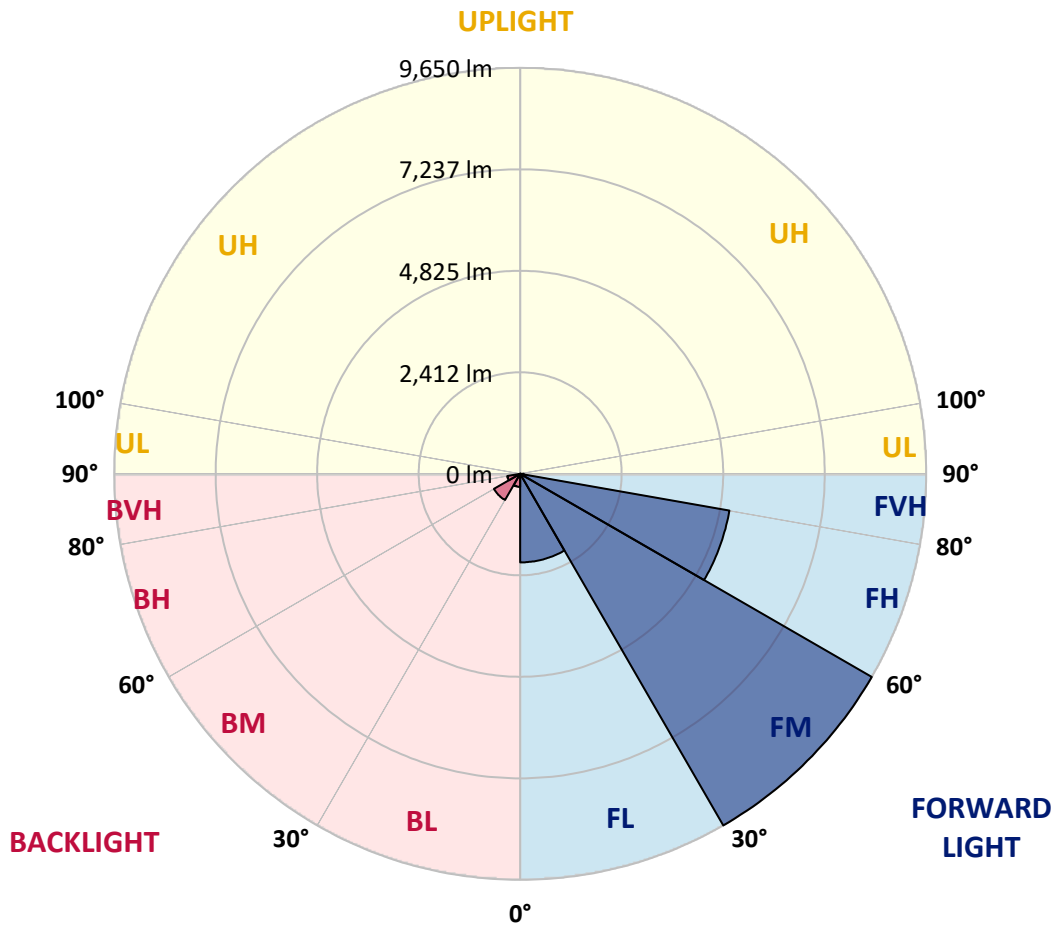
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2105.3	11.5			
FM (30°-60°)	9649.9	52.9			
FH (60°-80°)	5049.4	27.7			G3/7500
FVH (80°-90°)	83.3	0.5			G1/100
BL (0°-30°)	310.5	1.7	B1/500		
BM (30°-60°)	718.6	3.9	B1/1000		
BH (60°-80°)	310.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	2910.3	2928.4	2902.4	2852.6	2777.9	2729.2	2610.3	2498.3	2373.7	2334.1
5°	3547.6	3563.4	3534.0	3479.7	3380.1	3285.0	3128.8	2894.5	2651.1	2573.0
7.5°	4019.6	4028.7	4017.4	3967.6	3872.5	3764.9	3590.6	3313.3	2952.2	2866.2
10°	4359.2	4388.7	4385.3	4366.0	4302.6	4215.5	4029.8	3714.0	3289.5	3178.6
12.5°	4584.5	4617.3	4636.6	4679.6	4676.2	4620.7	4457.7	4123.8	3625.7	3495.5
15°	4650.1	4685.2	4758.8	4858.4	4946.7	4975.0	4860.7	4525.6	3995.9	3829.5
17.5°	4612.8	4667.1	4755.4	4912.8	5106.3	5234.2	5221.8	4913.9	4332.1	4141.9
20°	4695.4	4747.5	4816.5	4949.0	5174.2	5406.3	5499.1	5285.2	4666.0	4466.8
22.5°	5152.7	5143.7	5150.5	5172.0	5306.7	5536.5	5727.8	5622.5	4996.5	4792.8
25°	5877.2	5836.4	5767.4	5650.8	5616.8	5727.8	5927.0	5921.3	5345.2	5126.7
27.5°	6708.1	6701.3	6539.4	6258.7	6100.2	6057.2	6152.3	6212.3	5690.4	5457.2
30°	7503.8	7522.0	7303.5	6991.1	6700.1	6531.5	6445.4	6488.5	6041.3	5813.8
32.5°	8196.6	8215.9	7978.1	7612.5	7252.5	7048.8	6867.7	6761.3	6423.9	6176.0
35°	8781.8	8801.1	8528.3	8124.2	7740.4	7555.9	7351.0	7060.1	6808.8	6577.9
37.5°	9304.8	9299.1	8933.5	8526.0	8149.1	8003.0	7895.5	7428.0	7205.0	6982.0
40°	9613.8	9637.6	9325.2	8875.8	8510.2	8403.8	8397.0	7884.2	7662.3	7446.1
42.5°	9704.4	9746.3	9519.9	9150.9	8819.2	8703.7	8881.5	8377.7	8194.3	7983.8
45°	9541.4	9582.1	9479.1	9223.3	9029.7	8955.0	9298.0	8889.4	8762.6	8554.3
47.5°	9066.0	9116.9	9141.8	9087.5	9085.2	9161.0	9671.6	9428.2	9437.2	9224.4
50°	8145.7	8231.7	8460.4	8652.8	8950.5	9324.1	10034.9	10012.3	10197.9	10014.6
52.5°	6472.6	6594.9	7382.7	7909.1	8578.1	9293.5	10434.5	10949.6	11532.5	11264.3
55°	5201.4	5201.4	5842.1	6826.9	7851.4	9092.0	10608.8	11558.6	12441.5	12378.1
57.5°	4240.4	4291.3	4699.9	5570.4	6799.8	8612.0	10716.4	11941.2	13173.9	13127.5
60°	2617.1	2726.9	3498.9	4358.1	5603.3	7757.4	10648.5	12328.3	14062.5	14099.8
62.5°	1473.8	1514.6	1858.7	3135.6	4357.0	6608.5	10128.9	12544.5	15199.0	15357.5
65°	1017.6	1038.0	1170.5	1951.5	3020.1	5261.4	9113.5	12409.8	16337.7	16658.1
67.5°	739.2	749.4	832.0	1192.0	1791.9	3814.7	7522.0	11730.6	16941.1	17476.5
70°	568.2	575.0	635.0	783.3	1058.4	2354.5	5462.9	10380.2	16504.1	17143.7
72.5°	461.8	468.6	515.0	579.6	701.8	1392.3	3311.0	8429.8	14575.3	15265.8
75°	389.4	398.5	440.3	482.2	550.1	894.3	1553.1	5870.4	10960.9	11413.7
77.5°	216.2	199.2	357.7	399.6	464.1	566.0	726.7	3454.8	6138.7	6264.3
80°	134.7	139.2	284.1	321.5	356.6	285.3	332.8	1330.1	2128.1	2021.7
82.5°	7.9	18.1	218.5	232.1	244.5	122.3	125.6	451.7	512.8	470.9
85°	0.0	0.0	99.6	80.4	84.9	35.1	36.2	105.3	69.1	74.7
87.5°	0.0	0.0	0.0	2.3	0.0	3.4	6.8	9.1	3.4	4.5
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°
2102.1	0°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2209.6	2.5°	2130.4	2051.1	1890.4	1733.0	1605.1	1486.3	1401.4	1321.0	1280.3	1278.0
2352.2	5°	2194.9	2028.5	1707.0	1422.9	1194.2	1010.9	892.0	807.1	764.1	749.4
2527.7	7.5°	2285.5	2035.3	1546.3	1151.2	881.8	724.5	656.5	629.4	620.3	610.1
2725.8	10°	2399.8	2051.1	1402.5	927.1	695.0	615.8	588.6	577.3	570.5	563.7
2948.8	12.5°	2527.7	2065.8	1259.9	769.7	611.3	570.5	551.3	537.7	528.6	520.7
3177.4	15°	2652.2	2074.9	1111.6	659.9	568.2	535.4	515.0	500.3	487.9	478.8
3401.6	17.5°	2775.6	2087.4	972.4	594.3	533.2	500.3	480.0	461.8	451.7	441.5
3637.0	20°	2912.6	2085.1	841.1	547.9	498.1	465.2	443.7	426.8	416.6	405.2
3886.1	22.5°	3039.3	2073.8	725.6	508.3	461.8	430.1	406.4	389.4	379.2	370.2
4140.8	25°	3185.4	2064.7	629.4	472.0	427.9	396.2	370.2	354.3	343.0	335.1
4396.6	27.5°	3325.7	2051.1	559.2	439.2	395.1	364.5	339.6	321.5	311.3	305.6
4660.3	30°	3463.8	2047.7	533.2	407.5	365.6	335.1	310.2	293.2	285.3	283.0
4950.1	32.5°	3630.2	2056.8	544.5	396.2	338.5	307.9	284.1	271.7	263.7	263.7
5272.7	35°	3808.0	2054.5	561.5	406.4	320.3	280.7	262.6	254.7	246.8	246.8
5630.4	37.5°	4031.0	2057.9	575.0	423.4	313.6	258.1	247.9	237.7	233.2	233.2
6022.1	40°	4363.8	2170.0	568.2	438.1	311.3	242.2	221.9	218.5	215.1	215.1
6464.7	42.5°	4771.3	2413.4	577.3	439.2	310.2	230.9	203.8	210.5	202.6	201.5
6963.9	45°	5217.3	2679.4	635.0	415.4	309.0	225.3	194.7	202.6	190.2	190.2
7542.3	47.5°	5659.9	2943.1	693.9	381.5	305.6	224.1	186.8	182.2	178.9	180.0
8296.2	50°	6270.0	3158.2	716.5	335.1	297.7	221.9	172.1	173.2	170.9	173.2
9359.1	52.5°	6934.5	3203.5	689.4	283.0	275.1	215.1	161.9	166.4	165.3	167.5
10107.4	55°	7348.8	3154.8	569.4	235.5	240.0	187.9	151.7	160.7	160.7	160.7
10838.6	57.5°	7776.6	2947.7	404.1	191.3	199.2	153.9	142.6	155.1	153.9	152.8
11719.3	60°	8084.5	2612.6	266.0	157.3	158.5	126.8	132.4	146.0	144.9	139.2
12627.1	62.5°	8314.3	2242.4	170.9	133.6	121.1	114.3	121.1	132.4	127.9	115.5
13396.9	65°	8288.3	1729.7	131.3	114.3	99.6	99.6	105.3	115.5	101.9	81.5
13544.0	67.5°	7804.9	1170.5	108.7	96.2	83.8	82.6	87.2	96.2	87.2	69.1
12790.1	70°	6941.3	765.2	87.2	74.7	66.8	61.1	70.2	82.6	73.6	55.5
10888.4	72.5°	5633.8	466.4	65.7	54.3	48.7	39.6	55.5	67.9	58.9	40.8
7571.8	75°	3644.9	237.7	45.3	35.1	26.0	23.8	40.8	50.9	40.8	24.9
3359.7	77.5°	1394.6	99.6	24.9	15.8	13.6	11.3	22.6	30.6	17.0	5.7
650.9	80°	268.3	41.9	12.5	7.9	6.8	4.5	3.4	2.3	0.0	0.0
115.5	82.5°	46.4	13.6	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
22.6	85°	15.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.9	87.5°	5.7	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

180°
2102.1
1275.7
747.1
607.9
561.5
518.4
477.7
440.3
404.1
369.0
333.9
305.6
281.9
263.7
246.8
233.2
215.1
200.4
190.2
180.0
173.2
167.5
160.7
152.8
139.2
113.2
79.2
66.8
53.2
38.5
21.5
4.5
0.0
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