

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: P955091

Luminaire Tested: **GALN-SB8A-927-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955091
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-SB8A-927-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 350mA 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: 18694 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

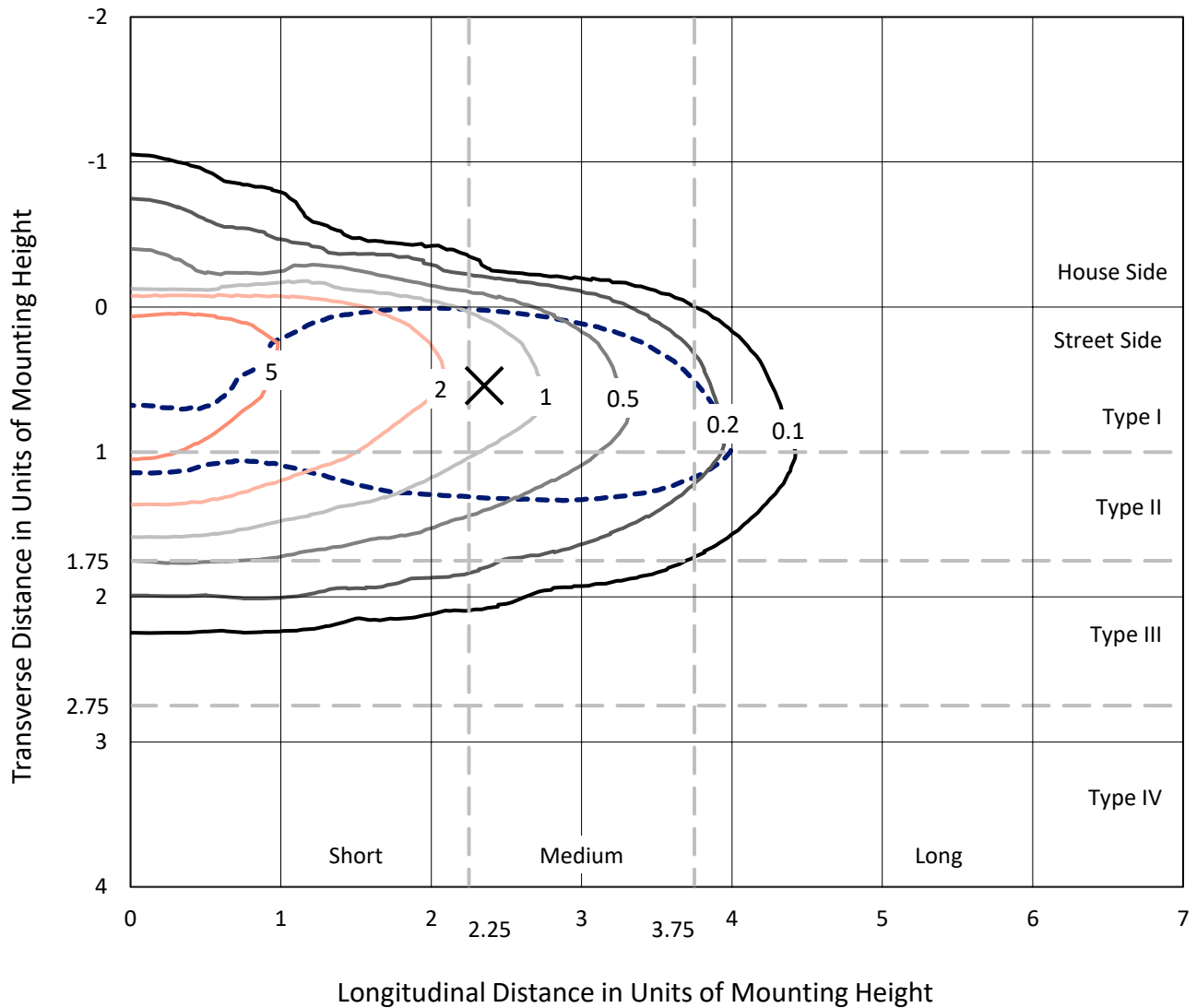
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

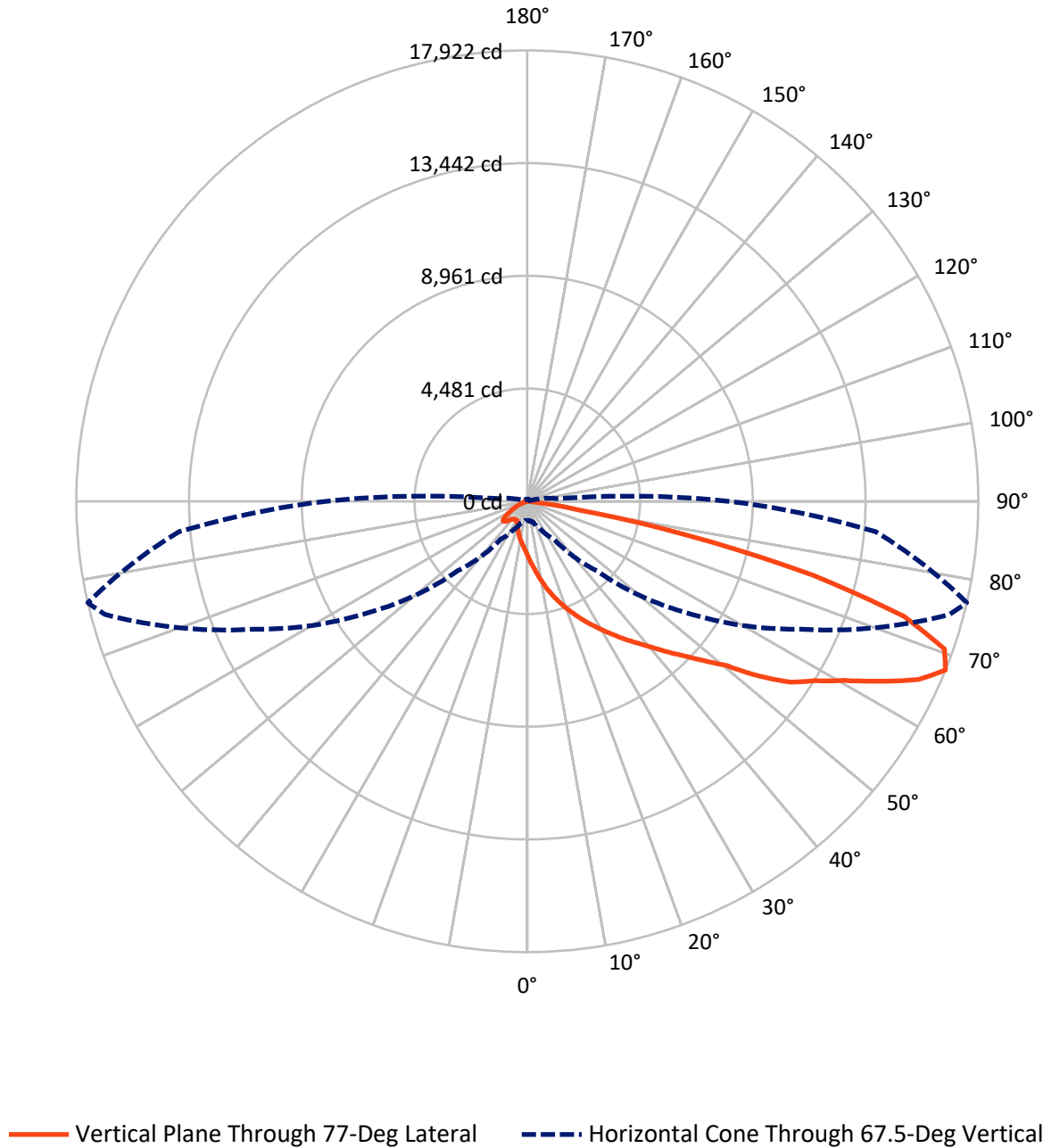
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	1375.3	0.0	1375.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	17318.7	0.0	17318.7
	% Fixture	92.6	0.0	92.6
Total	Lumens	18694.0	0.0	18694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	1.2
10°-20°	770.5	4.1
20°-30°	1486.8	8.0
30°-40°	2581.3	13.8
40°-50°	3747.8	20.0
50°-60°	4303.9	23.0
60°-70°	3736.6	20.0
70°-80°	1760.0	9.4
80°-90°	87.0	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°	18694.0	100.0
0°-180°	18694.0	100.0

Coefficient of Utilization



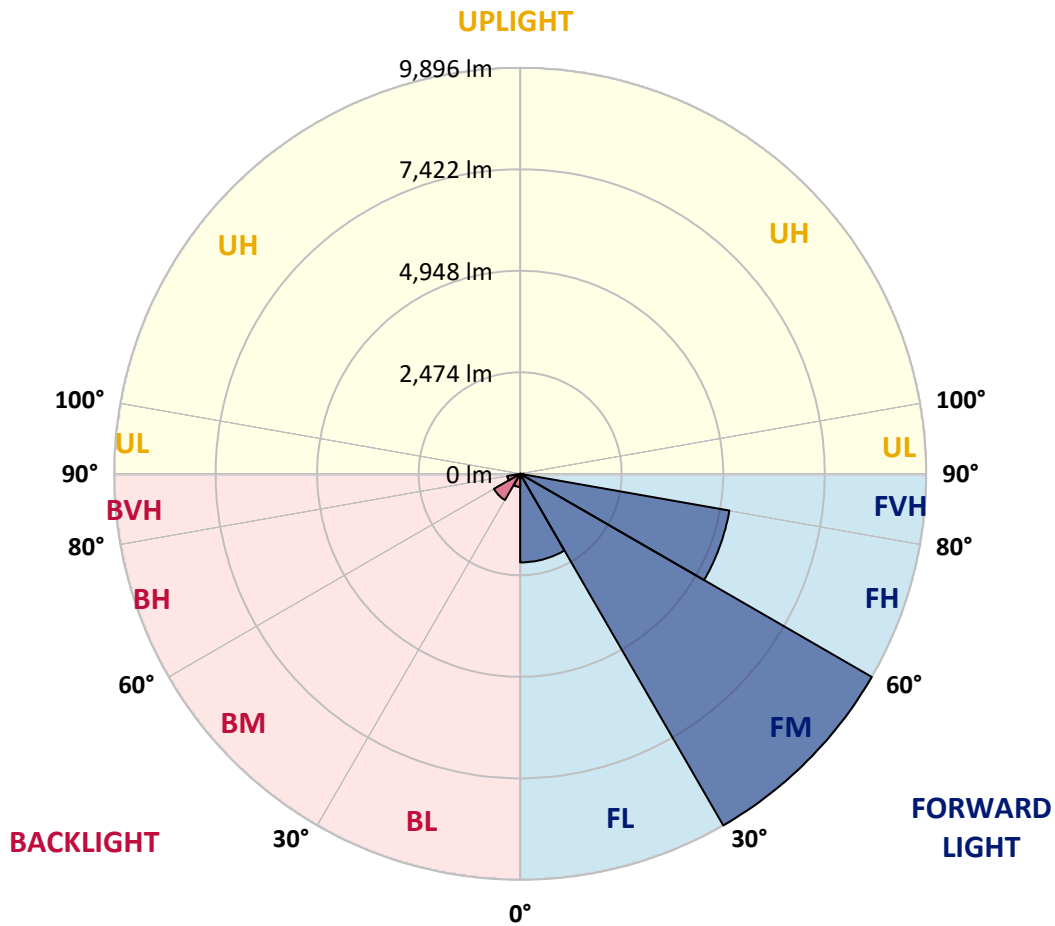
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2159.0	11.5			
FM (30°-60°)	9896.1	52.9			
FH (60°-80°)	5178.2	27.7			G3/7500
FVH (80°-90°)	85.4	0.5			G1/100
BL (0°-30°)	318.4	1.7	B1/500		
BM (30°-60°)	736.9	3.9	B1/1000		
BH (60°-80°)	318.4	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°	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7
2.5°	2984.5	3003.1	2976.4	2925.3	2848.7	2798.8	2676.9	2562.0	2434.3	2393.7
5°	3638.1	3654.3	3624.2	3568.4	3466.3	3368.8	3208.6	2968.3	2718.7	2638.6
7.5°	4122.2	4131.5	4119.8	4068.8	3971.3	3861.0	3682.2	3397.8	3027.5	2939.3
10°	4470.4	4500.6	4497.1	4477.4	4412.4	4323.0	4132.6	3808.7	3373.4	3259.7
12.5°	4701.4	4735.1	4754.8	4798.9	4795.5	4738.6	4571.4	4229.0	3718.2	3584.7
15°	4768.8	4804.7	4880.2	4982.4	5072.9	5101.9	4984.7	4641.1	4097.8	3927.1
17.5°	4730.5	4786.2	4876.7	5038.1	5236.6	5367.8	5355.0	5039.2	4442.6	4247.5
20°	4815.2	4868.6	4939.4	5075.2	5306.2	5544.2	5639.4	5420.0	4785.0	4580.7
22.5°	5284.2	5274.9	5281.9	5303.9	5442.1	5677.7	5873.9	5765.9	5124.0	4915.0
25°	6027.1	5985.3	5914.5	5794.9	5760.1	5873.9	6078.2	6072.4	5481.5	5257.5
27.5°	6879.2	6872.2	6706.2	6418.3	6255.8	6211.7	6309.2	6370.7	5835.6	5596.4
30°	7695.3	7713.8	7489.8	7169.4	6871.1	6698.1	6609.9	6654.0	6195.4	5962.1
32.5°	8405.7	8425.4	8181.7	7806.7	7437.5	7228.6	7042.9	6933.7	6587.8	6333.6
35°	9005.9	9025.6	8745.8	8331.4	7937.9	7748.7	7538.5	7240.2	6982.5	6745.7
37.5°	9542.2	9536.4	9161.4	8743.5	8356.9	8207.2	8096.9	7617.5	7388.8	7160.1
40°	9859.1	9883.5	9563.1	9102.2	8727.2	8618.1	8611.2	8085.3	7857.8	7636.1
42.5°	9951.9	9994.9	9762.7	9384.3	9044.2	8925.8	9108.0	8591.4	8403.4	8187.5
45°	9784.8	9826.6	9720.9	9458.6	9260.1	9183.5	9535.2	9116.1	8986.1	8772.5
47.5°	9297.2	9349.5	9375.0	9319.3	9317.0	9394.7	9918.3	9668.7	9678.0	9459.7
50°	8353.5	8441.7	8676.2	8873.5	9178.8	9561.9	10290.9	10267.7	10458.1	10270.0
52.5°	6637.7	6763.1	7571.0	8110.8	8796.9	9530.6	10700.7	11228.9	11826.7	11551.6
55°	5334.1	5334.1	5991.1	7001.1	8051.6	9323.9	10879.5	11853.4	12758.9	12693.9
57.5°	4348.5	4400.8	4819.8	5712.5	6973.2	8831.7	10989.7	12245.8	13509.9	13462.3
60°	2683.9	2796.5	3588.2	4469.3	5746.2	7955.3	10920.1	12642.8	14421.2	14459.5
62.5°	1511.4	1553.2	1906.1	3215.5	4468.1	6777.0	10387.3	12864.5	15586.7	15749.2
65°	1043.6	1064.5	1200.3	2001.3	3097.1	5395.6	9346.0	12726.4	16754.5	17083.0
67.5°	758.0	768.5	853.2	1222.4	1837.6	3912.1	7713.8	12029.9	17373.2	17922.3
70°	582.7	589.7	651.2	803.3	1085.4	2414.6	5602.2	10645.0	16925.2	17581.0
72.5°	473.6	480.6	528.2	594.4	719.7	1427.8	3395.5	8644.8	14947.1	15655.2
75°	399.3	408.6	451.6	494.5	564.2	917.1	1592.7	6020.2	11240.5	11704.8
77.5°	221.7	204.3	366.8	409.8	475.9	580.4	745.3	3542.9	6295.3	6424.1
80°	138.1	142.8	291.4	329.7	365.7	292.5	341.3	1364.0	2182.4	2073.3
82.5°	8.1	18.6	224.0	238.0	250.7	125.4	128.9	463.2	525.9	482.9
85°	0.0	0.0	102.2	82.4	87.1	36.0	37.1	108.0	70.8	76.6
87.5°	0.0	0.0	0.0	2.3	0.0	3.5	7.0	9.3	3.5	4.6
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°
2155.7	0°	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7	2155.7
2266.0	2.5°	2184.7	2103.5	1938.6	1777.3	1646.1	1524.2	1437.1	1354.7	1312.9	1310.6
2412.2	5°	2250.9	2080.2	1750.6	1459.2	1224.7	1036.6	914.7	827.7	783.6	768.5
2592.2	7.5°	2343.8	2087.2	1585.7	1180.6	904.3	742.9	673.3	645.4	636.1	625.7
2795.3	10°	2461.0	2103.5	1438.3	950.7	712.8	631.5	603.6	592.0	585.1	578.1
3024.0	12.5°	2592.2	2118.5	1292.0	789.4	626.9	585.1	565.3	551.4	542.1	534.0
3258.5	15°	2719.9	2127.8	1140.0	676.8	582.7	549.1	528.2	513.1	500.3	491.0
3488.3	17.5°	2846.4	2140.6	997.2	609.4	546.8	513.1	492.2	473.6	463.2	452.7
3729.8	20°	2986.9	2138.3	862.5	561.8	510.8	477.1	455.1	437.6	427.2	415.6
3985.2	22.5°	3116.9	2126.7	744.1	521.2	473.6	441.1	416.7	399.3	388.9	379.6
4246.4	25°	3266.6	2117.4	645.4	484.1	438.8	406.3	379.6	363.3	351.7	343.6
4508.7	27.5°	3410.6	2103.5	573.5	450.4	405.1	373.8	348.3	329.7	319.2	313.4
4779.2	30°	3552.2	2100.0	546.8	417.9	375.0	343.6	318.1	300.7	292.5	290.2
5076.4	32.5°	3722.8	2109.3	558.4	406.3	347.1	315.8	291.4	278.6	270.5	270.5
5407.2	35°	3905.1	2106.9	575.8	416.7	328.5	287.9	269.3	261.2	253.1	253.1
5774.1	37.5°	4133.8	2110.4	589.7	434.2	321.6	264.7	254.2	243.8	239.1	239.1
6175.7	40°	4475.1	2225.3	582.7	449.2	319.2	248.4	227.5	224.0	220.6	220.6
6629.6	42.5°	4893.0	2474.9	592.0	450.4	318.1	236.8	209.0	215.9	207.8	206.6
7141.5	45°	5350.3	2747.7	651.2	426.0	316.9	231.0	199.7	207.8	195.0	195.0
7734.7	47.5°	5804.2	3018.2	711.6	391.2	313.4	229.8	191.5	186.9	183.4	184.6
8507.8	50°	6429.9	3238.8	734.8	343.6	305.3	227.5	176.4	177.6	175.3	177.6
9597.9	52.5°	7111.3	3285.2	707.0	290.2	282.1	220.6	166.0	170.6	169.5	171.8
10365.2	55°	7536.2	3235.3	583.9	241.5	246.1	192.7	155.6	164.8	164.8	164.8
11115.1	57.5°	7975.0	3022.8	414.4	196.2	204.3	157.9	146.3	159.0	157.9	156.7
12018.2	60°	8290.8	2679.2	272.8	161.4	162.5	130.0	135.8	149.7	148.6	142.8
12949.2	62.5°	8526.4	2299.6	175.3	137.0	124.2	117.2	124.2	135.8	131.2	118.4
13738.6	65°	8499.7	1773.8	134.7	117.2	102.2	102.2	108.0	118.4	104.5	83.6
13889.5	67.5°	8004.0	1200.3	111.4	98.7	85.9	84.7	89.4	98.7	89.4	70.8
13116.4	70°	7118.3	784.7	89.4	76.6	68.5	62.7	72.0	84.7	75.5	56.9
11166.2	72.5°	5777.5	478.3	67.3	55.7	49.9	40.6	56.9	69.7	60.4	41.8
7764.9	75°	3737.9	243.8	46.4	36.0	26.7	24.4	41.8	52.2	41.8	25.5
3445.4	77.5°	1430.2	102.2	25.5	16.3	13.9	11.6	23.2	31.3	17.4	5.8
667.5	80°	275.1	43.0	12.8	8.1	7.0	4.6	3.5	2.3	0.0	0.0
118.4	82.5°	47.6	13.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
23.2	85°	16.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.1	87.5°	5.8	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

180°
2155.7
1308.3
766.2
623.4
575.8
531.7
489.9
451.6
414.4
378.4
342.4
313.4
289.1
270.5
253.1
239.1
220.6
205.5
195.0
184.6
177.6
171.8
164.8
156.7
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