

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: P948856

Luminaire Tested: **GALN-SB3D-740-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948856
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-SB3D-740-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 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: 24686 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

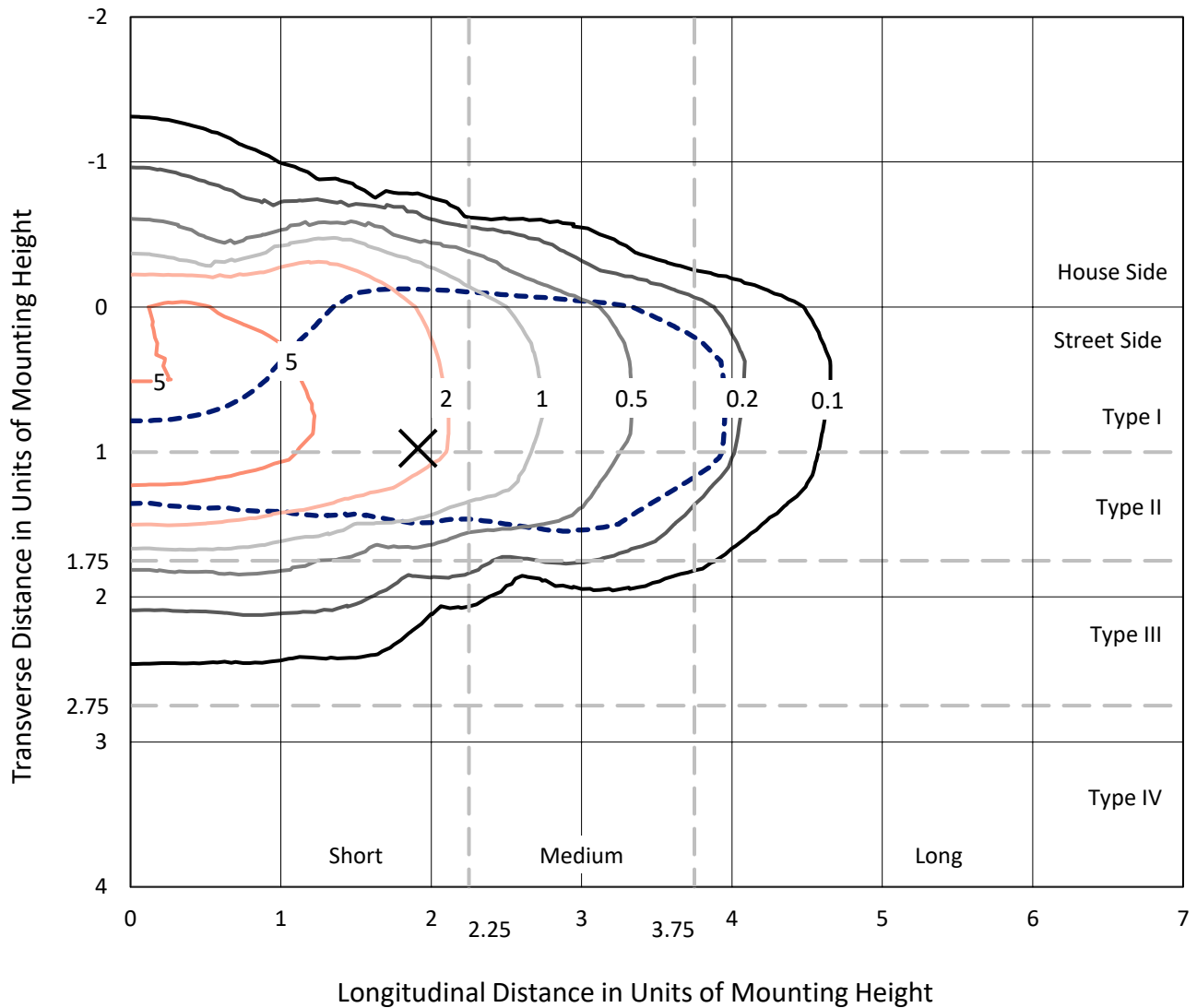
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

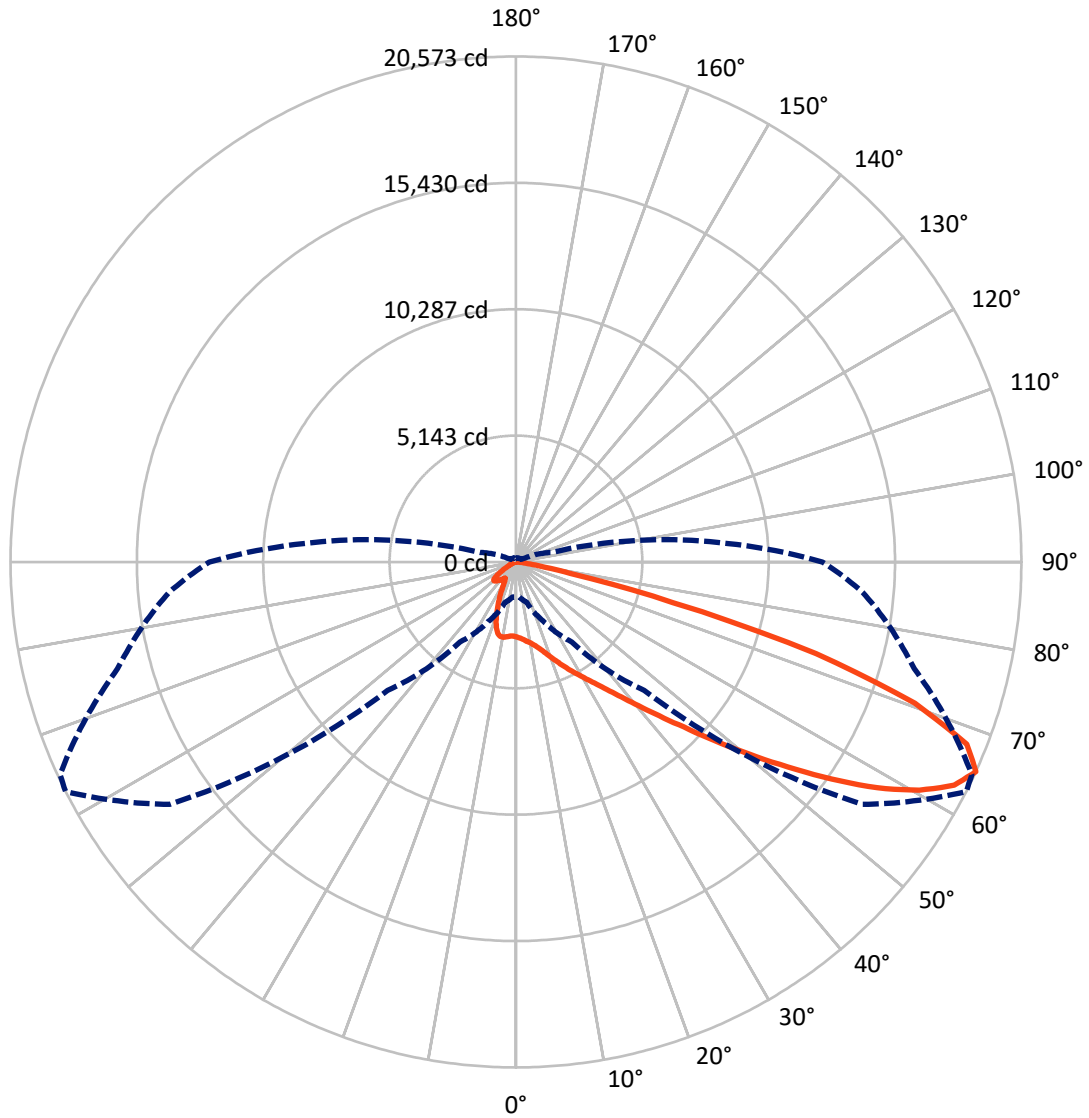
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	3628.7	0.0	3628.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21057.4	0.0	21057.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	24686.0	0.0	24686.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.1	1.2
10°-20°	796.5	3.2
20°-30°	1386.9	5.6
30°-40°	2499.7	10.1
40°-50°	4957.7	20.1
50°-60°	6753.2	27.4
60°-70°	5390.4	21.8
70°-80°	2439.3	9.9
80°-90°	175.3	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°	24686.0	100.0
0°-180°	24686.0	100.0

Coefficient of Utilization



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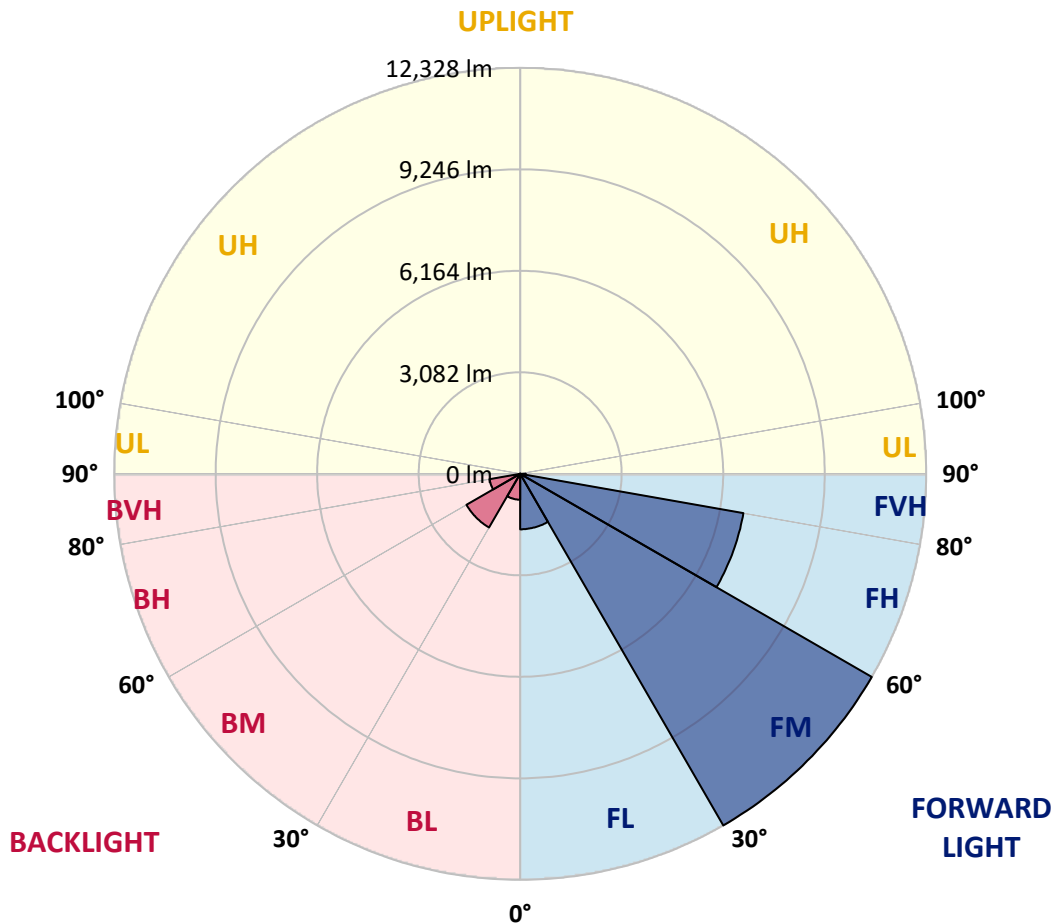
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1685.1	6.8			
FM (30°-60°)	12327.6	49.9			
FH (60°-80°)	6882.3	27.9			G3/7500
FVH (80°-90°)	162.3	0.7			G2/225
BL (0°-30°)	785.3	3.2	B2/1000		
BM (30°-60°)	1883.0	7.6	B2/2500		
BH (60°-80°)	947.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	13.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7
2.5°	3118.0	3109.6	3121.4	3116.3	3113.0	3106.2	3102.8	3099.4	3092.6	3087.5
5°	3126.5	3121.4	3133.3	3143.5	3153.7	3163.9	3169.0	3175.8	3169.0	3155.4
7.5°	3055.2	3051.8	3077.3	3107.9	3153.7	3192.8	3235.2	3259.0	3260.7	3255.6
10°	3050.1	3041.6	3067.1	3104.5	3163.9	3233.5	3308.3	3359.2	3366.0	3388.1
12.5°	3129.9	3121.4	3157.1	3197.9	3259.0	3332.0	3423.7	3495.1	3505.3	3535.8
15°	3264.1	3252.2	3293.0	3345.6	3423.7	3507.0	3603.8	3668.3	3676.8	3714.1
17.5°	3420.3	3408.5	3456.0	3512.0	3597.0	3710.7	3822.8	3894.2	3904.4	3928.1
20°	3620.7	3605.5	3642.8	3693.8	3783.8	3919.6	4053.8	4155.7	4154.0	4154.0
22.5°	3853.4	3829.6	3861.9	3902.7	3987.6	4152.3	4330.6	4451.2	4451.2	4403.6
25°	4103.1	4079.3	4114.9	4152.3	4227.0	4413.8	4622.7	4772.2	4779.0	4697.4
27.5°	4415.5	4385.0	4412.1	4456.3	4500.4	4690.7	4938.6	5111.8	5115.2	4989.6
30°	5016.7	4930.1	4845.2	4797.6	4818.0	5006.5	5271.5	5463.4	5480.4	5307.1
32.5°	6117.2	6100.2	5801.3	5410.7	5206.9	5346.2	5643.4	5874.4	5884.5	5662.1
35°	7827.4	7807.0	7326.4	6582.5	5918.5	5801.3	6095.1	6368.6	6361.8	6110.4
37.5°	9868.7	9850.0	9216.6	8221.4	7146.4	6489.1	6677.6	6964.7	7007.1	6677.6
40°	11612.9	11543.2	11142.4	10182.9	8776.7	7630.4	7506.4	7696.6	7740.8	7350.2
42.5°	12934.1	12874.7	12670.9	12071.4	10750.1	9318.5	8482.9	8555.9	8605.2	8136.5
45°	13618.5	13604.9	13686.5	13630.4	12760.9	11390.4	9878.9	9574.9	9593.6	9007.7
47.5°	13715.3	13708.5	14080.5	14606.9	14489.7	13727.2	11670.6	10845.2	10779.0	9991.0
50°	13144.7	13131.1	13844.4	14831.1	15644.6	15690.4	13705.1	12276.9	12130.8	11008.3
52.5°	11322.4	11319.1	12490.9	14133.1	16050.5	17409.1	15715.9	13849.5	13604.9	12085.0
55°	8712.2	8775.0	10118.4	12059.5	15310.0	18236.2	17521.2	15595.3	15220.0	13168.5
57.5°	6171.6	6263.3	7591.3	9320.2	13013.9	17747.1	18742.2	17344.6	16940.4	14248.6
60°	3315.0	3396.6	4726.3	6789.7	9681.9	15923.1	19385.9	18862.8	18480.7	15274.4
62.5°	1975.1	2002.3	2552.5	4383.3	6548.6	12164.8	19112.5	20019.4	19705.2	16135.4
65°	1418.1	1423.2	1700.0	2676.5	3975.7	7390.9	17195.1	20573.0	20476.2	16784.1
67.5°	1193.9	1190.5	1306.0	1778.1	2708.8	3702.3	13178.7	19790.1	20201.1	17195.1
70°	1024.1	1029.2	1165.0	1302.6	2036.2	2095.7	6552.0	17230.8	18107.1	17303.8
72.5°	762.5	779.5	905.2	1187.1	1536.9	1441.8	2262.1	12776.2	14360.7	16303.5
75°	538.4	546.8	636.9	998.6	1146.3	1049.5	1154.8	6604.6	8635.8	12499.4
77.5°	414.4	429.7	482.3	698.0	1129.4	737.1	706.5	2285.9	3512.0	7550.6
80°	224.2	251.3	348.1	504.4	793.1	521.4	349.8	910.3	1190.5	3530.7
82.5°	115.5	129.1	242.9	363.4	451.7	455.1	173.2	378.7	490.8	1090.3
85°	45.9	56.0	163.0	200.4	232.7	224.2	78.1	152.8	176.6	302.3
87.5°	10.2	17.0	59.4	45.9	44.2	47.6	18.7	35.7	34.0	35.7
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°
3046.7	0°	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7	3046.7
3067.1	2.5°	3065.4	3058.6	3039.9	3019.5	2995.8	2982.2	2973.7	2972.0	2960.1	2951.6
3135.0	5°	3116.3	3109.6	3073.9	3031.4	2985.6	2949.9	2916.0	2885.4	2841.2	2832.7
3233.5	7.5°	3218.2	3199.6	3141.8	3084.1	2997.5	2893.9	2768.2	2623.8	2494.8	2455.7
3364.3	10°	3343.9	3318.4	3245.4	3143.5	2951.6	2669.7	2365.7	2083.8	1859.6	1796.8
3518.8	12.5°	3486.6	3464.5	3367.7	3179.2	2759.7	2248.5	1783.2	1433.4	1216.0	1161.6
3683.6	15°	3656.4	3624.1	3490.0	3124.8	2416.7	1708.5	1224.5	1017.3	939.2	929.0
3872.1	17.5°	3836.4	3783.8	3598.7	2929.5	1954.7	1214.3	945.9	886.5	852.5	842.3
4062.3	20°	4001.2	3933.2	3663.2	2634.0	1460.5	945.9	847.4	808.4	777.8	765.9
4252.5	22.5°	4165.9	4069.1	3663.2	2231.5	1095.4	839.0	777.8	742.1	706.5	691.2
4456.3	25°	4337.4	4208.3	3598.7	1783.2	881.4	769.3	711.6	672.5	642.0	623.3
4649.9	27.5°	4503.8	4325.5	3450.9	1358.6	784.6	708.2	650.4	613.1	584.2	570.6
4860.5	30°	4661.8	4441.0	3243.7	1030.9	721.8	648.7	594.4	562.1	533.3	519.7
5133.9	32.5°	4875.8	4587.1	3022.9	845.7	667.4	592.7	543.5	512.9	487.4	477.2
5488.8	35°	5173.0	4802.7	2832.7	830.5	621.6	546.8	497.6	468.7	443.3	434.8
5947.4	37.5°	5594.1	5150.9	2732.5	932.4	584.2	506.1	460.2	429.7	405.9	399.1
6529.9	40°	6113.8	5623.0	2786.9	1034.3	558.7	470.4	426.3	395.7	375.3	366.8
7199.0	42.5°	6730.3	6205.5	3087.5	1112.4	541.8	439.9	394.0	360.0	346.4	343.1
7958.2	45°	7438.5	6845.8	3547.7	1195.6	514.6	411.0	361.7	336.3	326.1	324.4
8783.5	47.5°	8243.5	7548.9	4081.0	1299.2	487.4	383.8	336.3	319.3	310.8	307.4
9644.5	50°	9041.7	8257.0	4629.5	1356.9	465.3	358.3	315.9	302.3	295.5	293.8
10554.8	52.5°	9877.2	8985.6	5072.8	1302.6	446.6	338.0	298.9	288.7	281.9	280.2
11393.8	55°	10673.7	9574.9	5149.2	1105.6	409.3	317.6	280.2	275.1	266.6	266.6
12244.6	57.5°	11359.8	9870.4	4609.1	811.8	371.9	287.0	261.5	256.4	249.6	247.9
13012.2	60°	11989.9	9785.5	3557.9	546.8	331.2	256.4	237.8	234.4	227.6	219.1
13679.7	62.5°	12344.8	9411.9	2433.6	356.6	290.4	224.2	210.6	208.9	193.6	176.6
14173.9	65°	12479.0	8644.3	1518.3	259.8	242.9	191.9	181.7	178.3	156.2	137.6
14454.1	67.5°	12361.8	7380.7	765.9	205.5	191.9	159.6	149.4	149.4	134.2	117.2
14437.1	70°	11893.1	5533.0	322.7	164.7	147.8	122.3	122.3	129.1	113.8	95.1
13688.2	72.5°	10875.8	3722.6	171.5	125.7	110.4	86.6	100.2	105.3	90.0	71.3
11203.6	75°	8646.0	2270.6	118.9	93.4	69.6	61.1	76.4	79.8	61.1	47.6
7681.3	77.5°	5913.4	1304.3	79.8	59.4	44.2	35.7	52.6	49.3	32.3	22.1
2961.8	80°	2596.7	543.5	45.9	27.2	17.0	13.6	18.7	13.6	10.2	6.8
405.9	82.5°	304.0	127.4	17.0	10.2	6.8	3.4	1.7	0.0	0.0	0.0
124.0	85°	62.8	15.3	8.5	3.4	1.7	0.0	0.0	0.0	0.0	0.0
22.1	87.5°	11.9	3.4	1.7	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°
3046.7
2960.1
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1773.0
1146.3
918.8
837.3
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682.7
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570.6
521.4
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