

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: P943426

Luminaire Tested: **GALN-SB7D-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34548 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

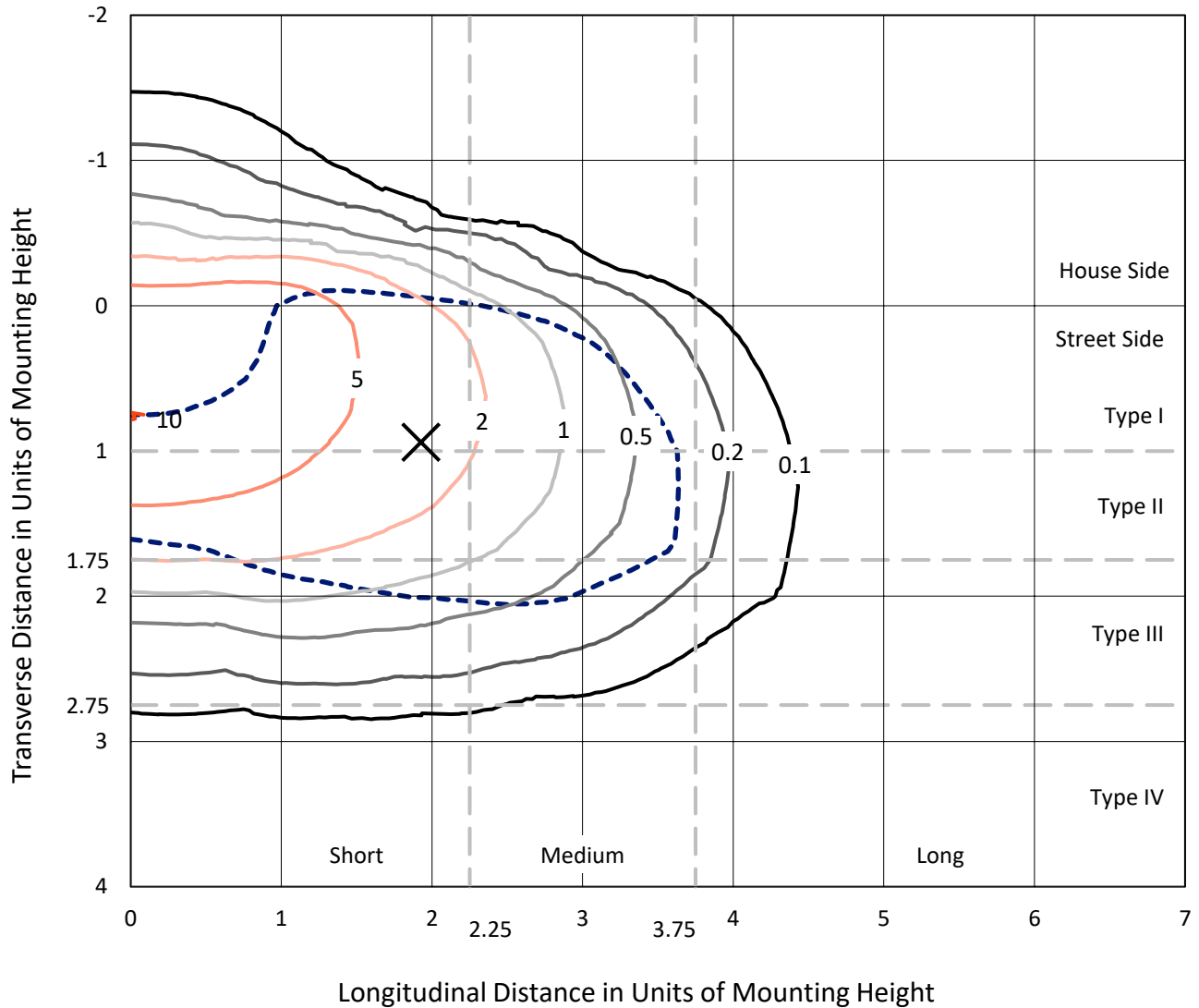
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

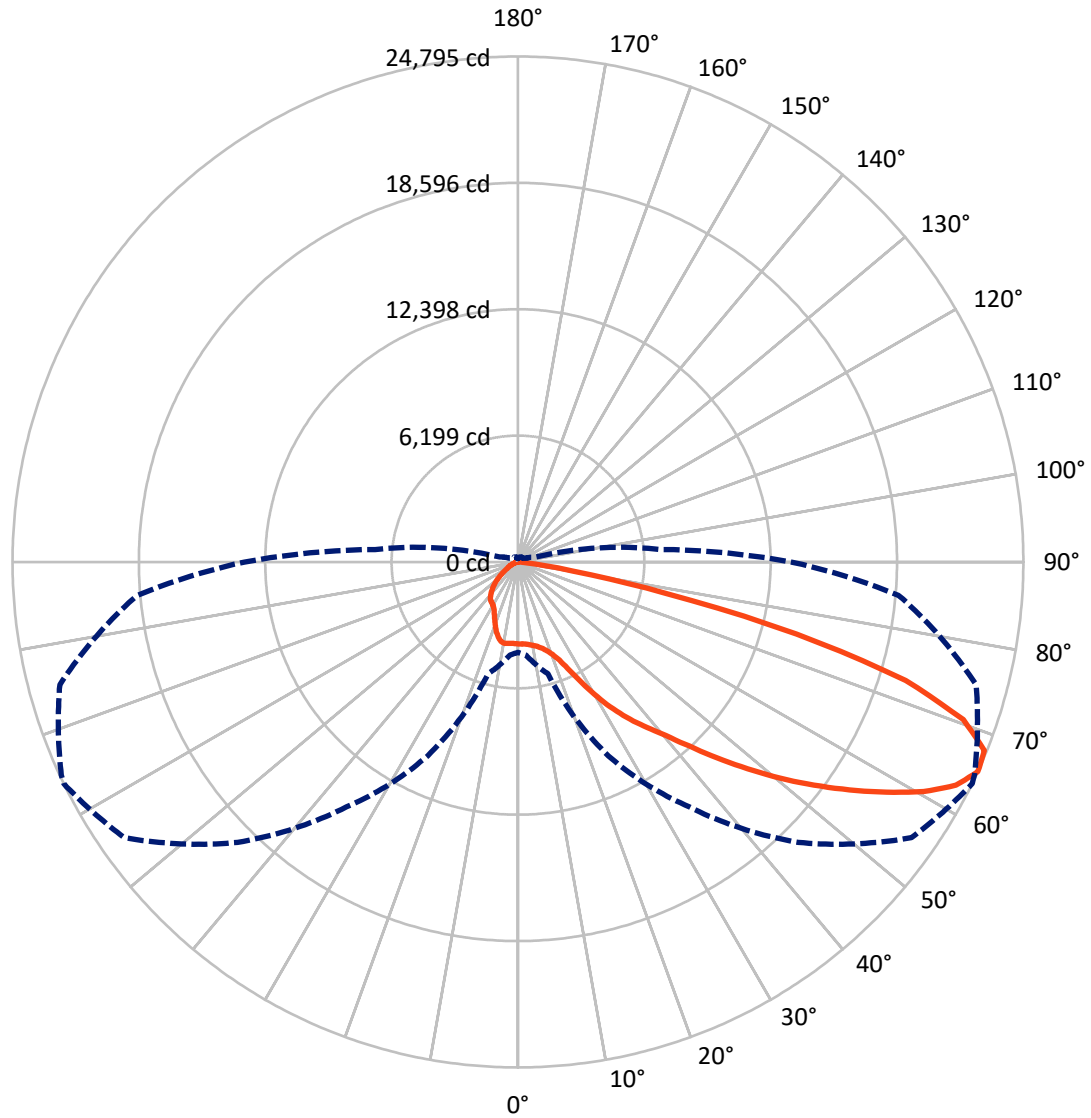
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4620.1	0.0	4620.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	29927.9	0.0	29927.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	34548.0	0.0	34548.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.7	1.1
10°-20°	1005.5	2.9
20°-30°	1905.4	5.5
30°-40°	3855.6	11.2
40°-50°	6568.0	19.0
50°-60°	8932.0	25.9
60°-70°	8387.6	24.3
70°-80°	3360.4	9.7
80°-90°	162.8	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°	34548.0	100.0
0°-180°	34548.0	100.0

Coefficient of Utilization



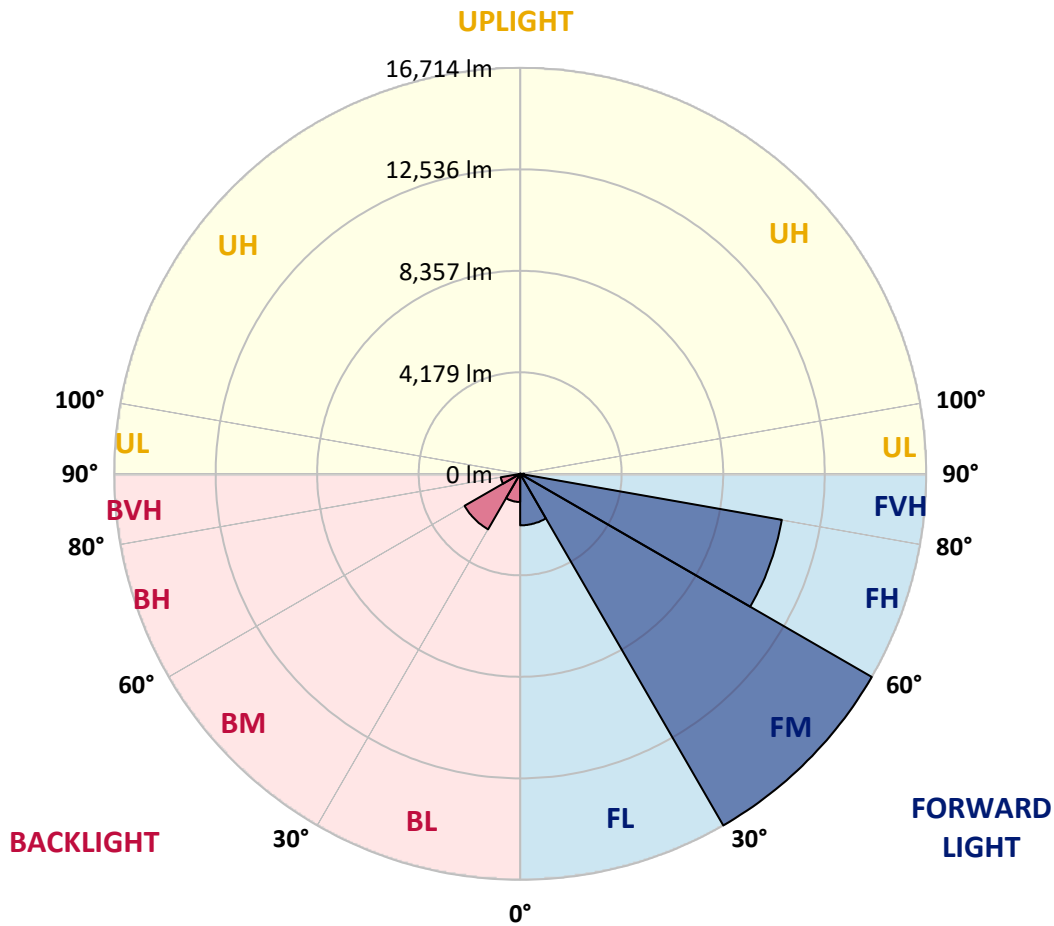
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.6	6.1			
FM (30°-60°)	16714.3	48.4			
FH (60°-80°)	10937.1	31.7			G4/12000
FVH (80°-90°)	154.9	0.4			G2/225
BL (0°-30°)	1160.0	3.4	B3/2500		
BM (30°-60°)	2641.3	7.6	B3/5000		
BH (60°-80°)	810.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3
2.5°	4004.4	4032.2	4025.2	4018.3	4016.0	4020.6	4022.9	4020.6	4020.6	4020.6
5°	3928.0	3951.1	3951.1	3967.3	3990.5	4018.3	4039.1	4043.8	4048.4	4055.3
7.5°	3782.1	3800.6	3814.5	3867.7	3925.7	3999.8	4062.3	4094.7	4099.4	4124.8
10°	3682.5	3705.6	3728.8	3784.4	3867.7	3978.9	4085.5	4164.2	4175.8	4236.0
12.5°	3677.8	3701.0	3731.1	3791.3	3888.6	4006.7	4136.4	4249.9	4270.7	4358.7
15°	3726.5	3754.3	3782.1	3856.2	3960.4	4104.0	4242.9	4384.2	4405.1	4530.1
17.5°	3826.1	3863.1	3884.0	3958.1	4069.2	4229.0	4412.0	4574.1	4592.7	4738.6
20°	4022.9	4066.9	4073.9	4134.1	4242.9	4414.3	4632.0	4833.5	4856.7	5023.4
22.5°	4430.5	4493.1	4437.5	4467.6	4564.9	4736.3	4972.5	5227.3	5259.7	5449.6
25°	5148.5	5236.5	5092.9	5042.0	5083.7	5262.0	5558.4	5880.4	5917.4	6070.3
27.5°	6559.0	6445.5	6227.8	6014.7	5889.6	5991.5	6325.0	6723.4	6769.7	6917.9
30°	8108.4	8008.8	7714.7	7242.2	6945.7	6929.5	7237.6	7682.2	7735.5	7876.8
32.5°	9660.1	9565.2	9245.5	8664.2	8150.1	7895.3	8108.4	8601.7	8629.5	8719.8
35°	11186.4	11089.1	10769.5	10174.3	9542.0	8963.0	8921.3	9477.1	9486.4	9581.4
37.5°	12721.9	12640.8	12300.4	11716.7	11093.7	10294.7	9907.9	10306.3	10317.9	10410.5
40°	13817.4	13852.1	13618.2	13166.6	12631.6	11758.4	11015.0	11188.7	11119.2	11274.4
42.5°	14757.7	14827.1	14623.3	14396.4	14086.0	13317.1	12386.1	12356.0	12244.8	12328.2
45°	15570.6	15628.5	15445.5	15392.3	15385.3	14845.7	13884.5	13703.9	13548.7	13532.5
47.5°	15869.4	15980.5	16059.3	16237.6	16585.0	16358.0	15433.9	15153.7	14980.0	14852.6
50°	15982.8	16101.0	16369.6	16888.4	17710.6	17807.9	16976.4	16661.4	16448.4	16216.8
52.5°	15830.0	16040.7	16402.0	17275.2	18467.9	18970.5	18456.3	18180.7	17937.6	17560.0
55°	14929.1	15139.8	15878.6	17270.5	18845.4	19785.7	19855.2	19732.5	19459.2	18864.0
57.5°	13029.9	13342.6	14512.2	16682.3	18838.5	20487.5	21226.3	21314.3	21008.6	20156.3
60°	10398.9	10822.8	12249.4	15378.4	18257.2	20867.3	22428.3	22868.4	22544.1	21430.1
62.5°	7256.1	7747.1	9097.3	13335.6	16927.8	20594.0	23306.1	24119.0	23873.5	22569.6
65°	4425.9	4583.4	5671.9	10493.9	14667.3	19449.9	23577.1	24795.3	24714.2	23266.7
67.5°	2948.3	3080.3	3393.0	7195.9	11385.5	17164.0	22928.6	24677.2	24700.3	23153.2
70°	1776.4	1889.9	2093.7	4185.0	7378.8	13585.8	20920.6	23171.8	23306.1	21636.2
72.5°	731.9	808.3	993.6	1896.8	3821.4	8622.5	16659.1	19894.6	20207.3	18192.3
75°	414.6	453.9	583.6	951.9	1658.3	4018.3	10090.9	14123.1	14584.0	12538.9
77.5°	275.6	294.1	377.5	616.1	933.4	1371.1	4312.4	7358.0	8238.1	6848.5
80°	185.3	201.5	259.4	412.3	606.8	588.3	1373.4	2726.0	3353.6	2353.1
82.5°	125.1	127.4	185.3	271.0	384.5	284.9	405.3	847.7	1065.4	680.9
85°	71.8	69.5	136.6	157.5	171.4	118.1	122.7	254.8	333.5	287.2
87.5°	9.3	13.9	53.3	41.7	23.2	25.5	25.5	44.0	64.8	69.5
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°
4018.3	0°	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3	4018.3
4022.9	2.5°	4022.9	4020.6	4013.7	4006.7	3990.5	3981.2	3985.9	3981.2	3978.9	3981.2
4053.0	5°	4053.0	4046.1	4027.6	4004.4	3972.0	3932.6	3907.1	3870.1	3835.3	3814.5
4134.1	7.5°	4134.1	4127.1	4101.7	4036.8	3932.6	3768.2	3617.6	3485.6	3386.0	3328.1
4263.8	10°	4263.8	4252.2	4212.8	4069.2	3796.0	3437.0	3138.2	2890.4	2728.3	2651.8
4416.6	12.5°	4416.6	4402.8	4333.3	4039.1	3536.6	2976.1	2563.8	2288.2	2137.7	2070.5
4592.7	15°	4597.3	4578.8	4442.1	3895.5	3159.0	2466.6	2089.0	1882.9	1785.6	1725.4
4817.3	17.5°	4821.9	4789.5	4523.2	3680.2	2749.1	2077.5	1797.2	1642.1	1556.4	1498.5
5111.5	20°	5113.8	5060.5	4588.0	3423.1	2371.6	1832.0	1600.4	1470.7	1405.8	1354.9
5528.3	22.5°	5521.4	5445.0	4666.8	3145.2	2105.3	1662.9	1454.5	1359.5	1306.2	1248.3
6109.7	25°	6026.3	5936.0	4764.0	2888.1	1922.3	1517.0	1347.9	1269.2	1206.6	1139.5
6871.6	27.5°	6732.7	6570.5	4879.8	2677.3	1764.8	1391.9	1250.6	1162.6	1090.8	1035.3
7735.5	30°	7520.1	7253.8	4981.8	2549.9	1621.2	1276.1	1123.3	1035.3	968.1	928.7
8511.4	32.5°	8265.9	7904.6	5048.9	2494.4	1491.5	1144.1	984.3	889.4	838.4	826.8
9271.0	35°	8969.9	8492.8	5042.0	2441.1	1375.7	1012.1	847.7	750.4	711.0	718.0
10088.6	37.5°	9780.5	9120.5	4993.3	2357.7	1280.8	891.7	729.5	643.9	609.1	611.4
11082.1	40°	10723.2	9845.4	4963.2	2200.2	1176.5	780.5	632.3	562.8	537.3	528.1
12129.0	42.5°	11728.3	10547.1	4967.9	2021.9	1046.8	680.9	565.1	507.2	484.0	477.1
13293.9	45°	12738.1	11216.5	4974.8	1836.6	910.2	604.5	516.5	467.8	453.9	444.7
14475.1	47.5°	13687.7	11786.2	4845.1	1637.4	775.9	546.6	477.1	444.7	433.1	421.5
15660.9	50°	14572.4	12166.0	4532.4	1405.8	669.3	500.3	447.0	423.8	412.3	400.7
16735.5	52.5°	15260.2	12226.3	4016.0	1167.3	595.2	465.5	428.5	407.6	393.7	382.1
17604.1	55°	15566.0	11848.7	3281.8	944.9	537.3	435.4	409.9	389.1	372.9	361.3
18287.3	57.5°	15487.2	11054.4	2559.2	759.7	481.7	405.3	386.8	372.9	354.4	335.8
18840.8	60°	15100.4	9991.3	1929.2	632.3	430.8	372.9	361.3	349.7	324.2	296.5
19053.9	62.5°	14431.1	8655.0	1375.7	523.4	375.2	335.8	331.2	321.9	284.9	233.9
18738.9	65°	13407.4	7031.4	926.4	435.4	321.9	294.1	296.5	280.2	231.6	173.7
17585.5	67.5°	11911.3	5141.6	592.9	356.7	268.7	245.5	247.8	238.5	196.9	148.2
15399.2	70°	10005.2	3404.5	386.8	271.0	215.4	189.9	203.8	206.1	166.8	120.4
11818.6	72.5°	7334.8	2010.3	271.0	201.5	157.5	132.0	166.8	171.4	134.3	90.3
7110.2	75°	4180.4	954.2	203.8	145.9	97.3	92.6	129.7	129.7	92.6	60.2
3078.0	77.5°	1755.5	398.4	143.6	95.0	55.6	53.3	88.0	81.1	46.3	27.8
750.4	80°	507.2	178.3	76.4	46.3	23.2	20.8	34.7	25.5	11.6	4.6
284.9	82.5°	199.2	78.7	30.1	18.5	9.3	9.3	4.6	0.0	0.0	0.0
162.1	85°	118.1	32.4	13.9	6.9	2.3	0.0	0.0	0.0	0.0	0.0
34.7	87.5°	30.1	6.9	4.6	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>
4018.3
3990.5
3819.1
3330.4
2644.9
2063.6
1727.7
1493.8
1345.6
1239.1
1132.5
1023.7
921.8
833.8
718.0
620.7
525.7
474.8
444.7
421.5
400.7
379.8
359.0
333.5
291.8
229.3
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141.3
115.8
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