

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: P949929

Luminaire Tested: **GALN-SB4C-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26437 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

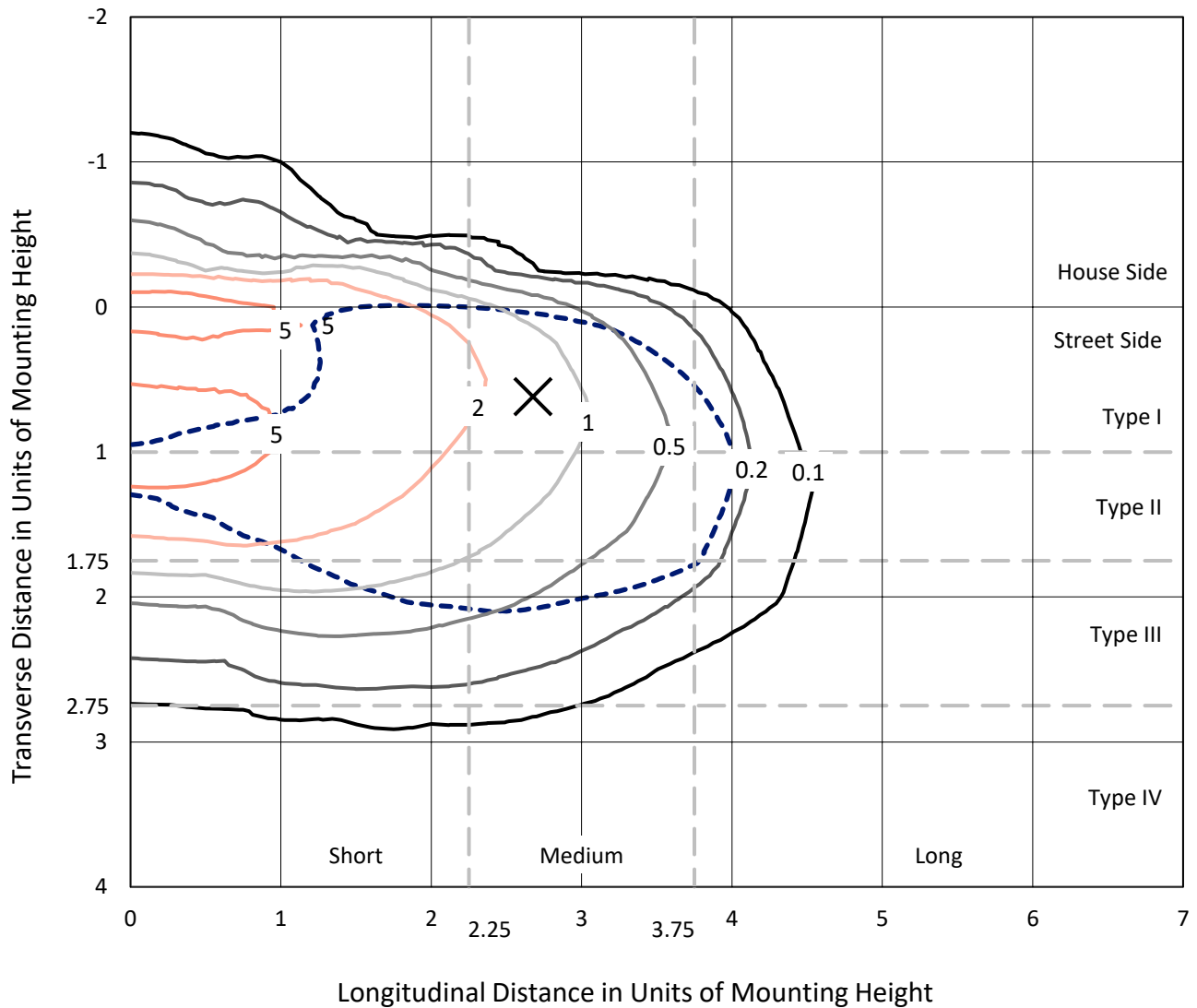
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

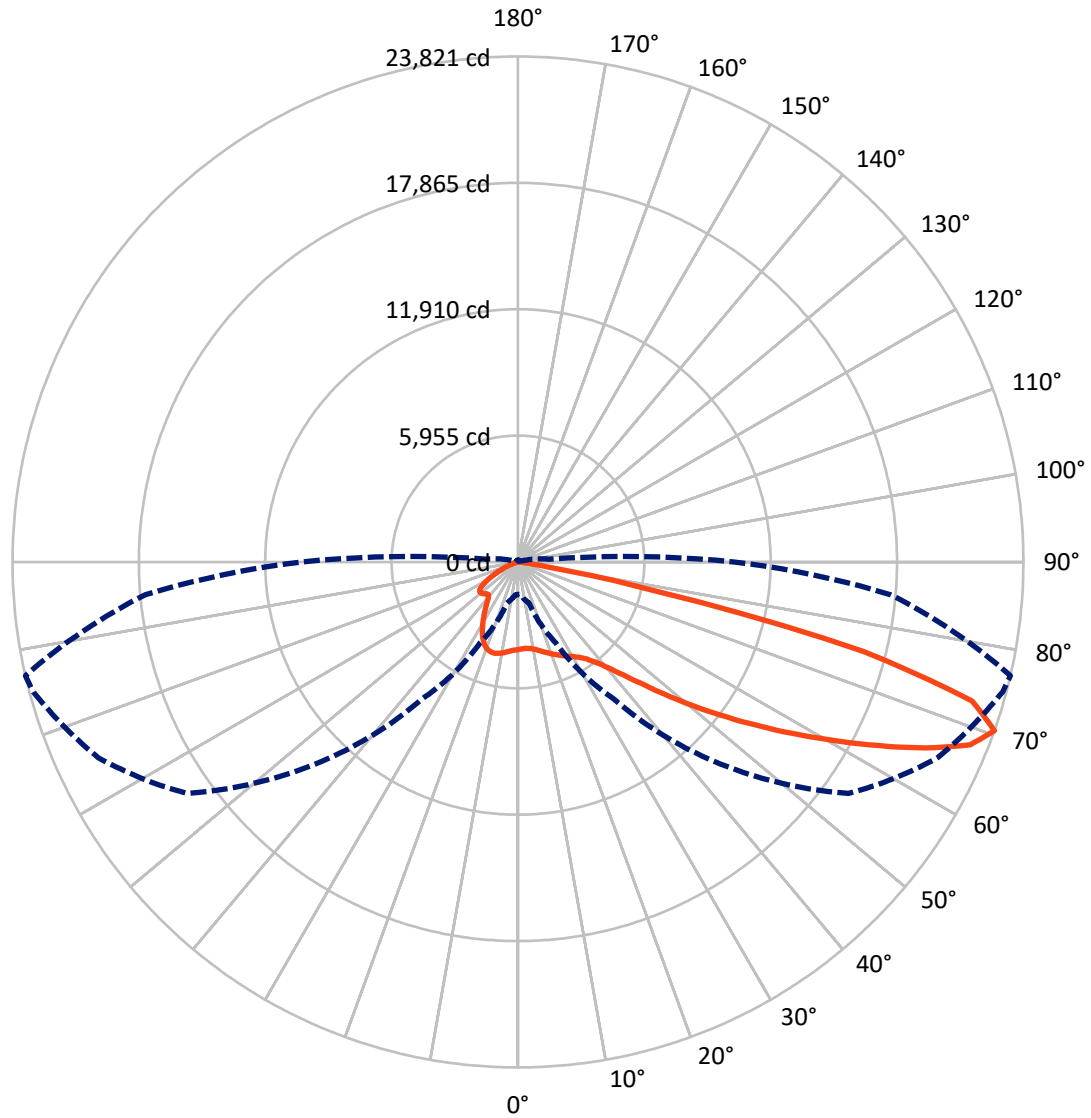
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P949929
CATALOG NUMBER: GALN-SB4C-740-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2786.8	0.0	2786.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23650.2	0.0	23650.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	26437.0	0.0	26437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.4	1.3
10°-20°	843.7	3.2
20°-30°	1304.9	4.9
30°-40°	2367.9	9.0
40°-50°	4469.6	16.9
50°-60°	6458.2	24.4
60°-70°	6874.6	26.0
70°-80°	3643.1	13.8
80°-90°	119.6	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°	26437.0	100.0
0°-180°	26437.0	100.0

Coefficient of Utilization



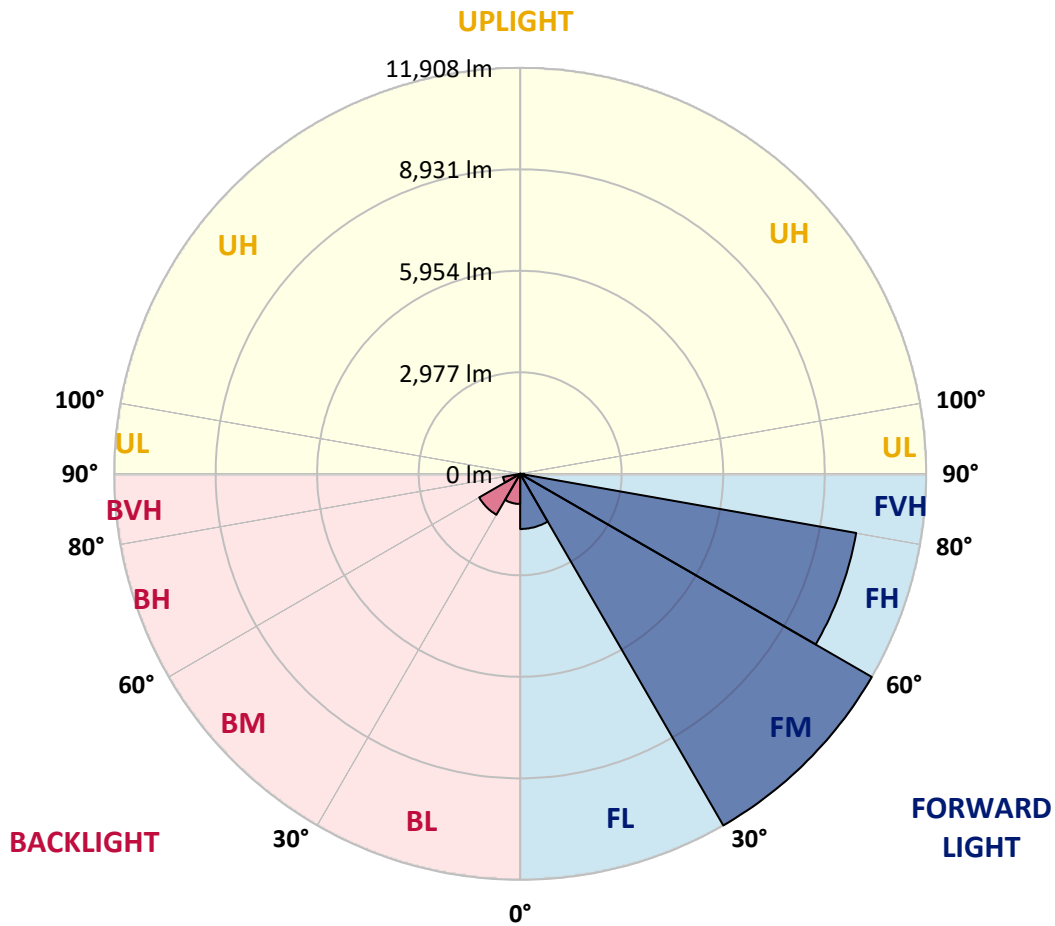
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.6	6.1			
FM (30°-60°)	11908.4	45.0			
FH (60°-80°)	10006.8	37.9			G4/12000
FVH (80°-90°)	116.4	0.4			G2/225
BL (0°-30°)	885.4	3.3	B2/1000		
BM (30°-60°)	1387.3	5.2	B2/2500		
BH (60°-80°)	510.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7
2.5°	3871.6	3906.7	3901.6	3925.0	3933.4	3966.8	4000.2	4045.2	4095.3	4093.6
5°	3652.9	3688.0	3696.3	3728.0	3768.1	3819.8	3888.3	3978.4	4071.9	4087.0
7.5°	3394.1	3430.8	3452.6	3516.0	3589.5	3696.3	3808.2	3940.0	4095.3	4117.0
10°	3135.3	3168.7	3197.1	3287.3	3404.1	3562.7	3744.7	3935.0	4143.7	4175.4
12.5°	2975.1	3006.8	3038.5	3117.0	3262.2	3455.9	3703.0	3958.4	4223.9	4268.9
15°	2918.3	2946.7	2971.7	3041.9	3177.1	3397.5	3694.6	4006.8	4325.7	4385.8
17.5°	2926.7	2941.7	2958.4	3011.8	3143.7	3370.7	3709.7	4090.3	4445.9	4499.3
20°	2975.1	2983.4	2985.1	3021.8	3138.7	3367.4	3739.7	4170.4	4559.4	4631.2
22.5°	3036.8	3040.2	3036.8	3061.9	3170.4	3392.4	3779.8	4267.3	4686.3	4753.1
25°	3325.7	3262.2	3182.1	3133.7	3223.8	3440.9	3839.9	4397.5	4824.9	4890.0
27.5°	4222.2	4040.2	3753.1	3430.8	3334.0	3511.0	3923.4	4529.4	4965.1	5023.6
30°	5678.0	5439.3	4951.8	4225.5	3688.0	3657.9	4031.9	4661.3	5113.7	5177.2
32.5°	7137.2	7078.7	6516.1	5511.1	4484.3	3985.1	4212.2	4839.9	5310.7	5360.8
35°	8613.0	8494.5	8033.7	7040.3	5711.4	4651.3	4512.7	5073.6	5569.5	5626.3
37.5°	9743.3	9671.5	9386.0	8567.9	7167.2	5679.7	5026.9	5435.9	5945.1	6008.6
40°	10741.6	10708.2	10611.4	10072.2	8795.0	7025.3	5826.6	5996.9	6466.0	6541.1
42.5°	11526.3	11604.8	11659.9	11509.6	10472.8	8561.3	6901.8	6784.9	7192.3	7269.1
45°	12329.3	12356.1	12578.1	12795.1	12139.0	10167.3	8113.8	7708.1	8095.5	8190.6
47.5°	12845.2	12952.1	13342.7	13725.1	13539.7	11760.0	9416.0	8798.3	9142.2	9320.9
50°	12883.6	13085.6	13623.2	14289.4	14559.8	13276.0	10831.8	10040.4	10406.1	10603.1
52.5°	12244.2	12558.1	13391.2	14366.2	15110.8	14559.8	12296.0	11282.6	11751.7	12008.8
55°	9387.7	9798.4	12518.0	13948.8	15132.5	15533.1	13721.7	12576.4	13250.9	13541.4
57.5°	8178.9	8386.0	9841.8	13224.2	14730.1	15925.5	15010.6	13808.5	14882.0	15242.6
60°	6804.9	7077.1	8254.1	12038.9	14184.2	15963.9	16149.2	15397.9	16650.0	17055.7
62.5°	4624.5	4920.1	6090.4	10002.0	13437.9	15945.5	17082.4	17034.0	18615.1	19050.8
65°	2864.9	3050.2	3821.5	8167.3	12394.5	15965.5	18059.1	19020.7	20688.6	21131.0
67.5°	2263.9	2349.0	2751.4	6270.7	10596.4	15514.8	19034.1	20888.9	22640.3	22990.8
70°	1520.9	1572.7	2001.7	4203.8	7883.4	13434.6	19015.7	21827.2	23645.3	23820.6
72.5°	801.4	841.4	1170.3	1946.7	4761.4	9549.6	16029.0	20705.3	22645.3	22381.5
75°	400.7	467.5	788.0	988.4	2033.5	5325.7	9953.6	16324.5	17823.7	16802.0
77.5°	303.9	367.3	651.1	651.1	707.9	1793.1	4215.5	8903.5	8212.3	6838.3
80°	193.7	250.4	569.3	492.5	295.5	455.8	1098.5	2494.3	1744.6	1327.3
82.5°	113.5	163.6	474.1	325.6	165.3	168.6	310.5	530.9	452.4	352.3
85°	45.1	106.8	325.6	128.6	65.1	41.7	93.5	113.5	93.5	70.1
87.5°	0.0	25.0	56.8	0.0	5.0	3.3	6.7	8.3	8.3	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949929
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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4123.7	0°	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7	4123.7
4127.0	2.5°	4142.1	4145.4	4155.4	4157.1	4133.7	4103.7	4092.0	4087.0	4066.9	4065.3
4153.7	5°	4192.1	4207.2	4192.1	4148.7	4045.2	3900.0	3789.8	3699.6	3617.8	3592.8
4245.6	7.5°	4292.3	4307.3	4262.3	4092.0	3831.5	3542.7	3282.3	3098.6	2933.3	2871.6
4357.4	10°	4435.9	4455.9	4314.0	3970.1	3509.3	3045.2	2604.4	2293.9	2051.8	1953.3
4509.4	12.5°	4616.2	4624.5	4342.4	3784.8	3090.3	2427.5	1803.1	1470.8	1255.5	1175.3
4693.0	15°	4814.9	4803.2	4345.7	3532.7	2519.3	1716.3	1177.0	966.6	879.8	853.1
4876.6	17.5°	5023.6	4975.1	4279.0	3168.7	1893.2	1173.7	873.2	823.1	808.0	801.4
5058.6	20°	5228.9	5120.4	4157.1	2692.9	1359.0	876.5	793.0	778.0	769.6	766.3
5242.3	22.5°	5415.9	5230.6	3948.4	2140.3	986.7	774.7	749.6	736.3	721.2	714.6
5420.9	25°	5597.9	5294.0	3654.6	1624.4	789.7	724.6	704.5	679.5	659.5	651.1
5612.9	27.5°	5774.8	5334.1	3287.3	1202.0	704.5	677.8	641.1	606.0	591.0	587.7
5818.2	30°	5963.5	5347.4	2869.9	896.5	652.8	619.4	566.0	525.9	517.5	519.2
6095.4	32.5°	6193.9	5367.5	2449.2	734.6	609.4	549.3	485.8	444.1	437.4	444.1
6499.4	35°	6469.4	5407.5	2043.5	676.2	571.0	477.5	409.0	374.0	367.3	372.3
7017.0	37.5°	6843.3	5472.7	1664.5	664.5	539.3	417.4	343.9	315.5	315.5	317.2
7651.4	40°	7340.8	5646.3	1325.6	656.1	522.6	372.3	290.5	278.8	283.8	287.2
8459.4	42.5°	7946.9	6015.3	1096.9	646.1	504.2	352.3	263.8	258.8	267.1	270.5
9427.7	45°	8626.4	6482.7	1016.7	629.4	487.5	365.6	252.1	245.4	255.4	257.1
10512.9	47.5°	9329.2	6940.2	1006.7	611.0	470.8	385.7	248.8	233.7	245.4	247.1
11671.6	50°	10040.4	7239.0	1016.7	582.7	444.1	385.7	250.4	222.0	232.1	237.1
12873.6	52.5°	10756.7	7375.9	1010.1	520.9	397.3	362.3	250.4	212.0	222.0	225.4
14172.5	55°	11451.2	7349.2	908.2	429.1	337.2	320.5	243.7	203.7	210.4	212.0
15399.6	57.5°	12000.5	6976.9	719.6	333.9	273.8	267.1	222.0	193.7	198.7	197.0
16524.8	60°	12287.6	6158.8	514.2	257.1	215.4	210.4	195.3	180.3	183.6	175.3
17478.1	62.5°	12290.9	5077.0	343.9	203.7	172.0	167.0	167.0	161.9	158.6	141.9
18216.0	65°	12028.8	3876.6	228.7	161.9	138.6	130.2	140.2	138.6	126.9	103.5
18441.4	67.5°	11434.5	2541.0	173.6	126.9	106.8	101.8	111.9	116.9	108.5	86.8
17620.0	70°	10212.4	1479.2	143.6	98.5	80.1	75.1	90.2	100.2	90.2	70.1
15060.7	72.5°	8482.8	798.0	116.9	73.5	55.1	50.1	71.8	81.8	71.8	51.8
9663.1	75°	5504.4	427.4	90.2	48.4	28.4	31.7	53.4	60.1	50.1	33.4
2836.5	77.5°	1848.1	188.7	56.8	23.4	13.4	13.4	31.7	36.7	23.4	11.7
515.9	80°	412.4	78.5	23.4	10.0	5.0	5.0	6.7	6.7	3.3	0.0
158.6	82.5°	135.2	31.7	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
40.1	85°	51.8	11.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13.4	87.5°	20.0	1.7	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°
4123.7
4068.6
3577.8
2846.5
1911.6
1150.3
853.1
799.7
763.0
712.9
647.8
584.3
519.2
442.4
370.6
315.5
287.2
270.5
258.8
248.8
238.7
225.4
212.0
197.0
173.6
136.9
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85.1
66.8
50.1
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