

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: P943046

Luminaire Tested: **GALN-SB7B-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943046
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-SB7B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA 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: 28221 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

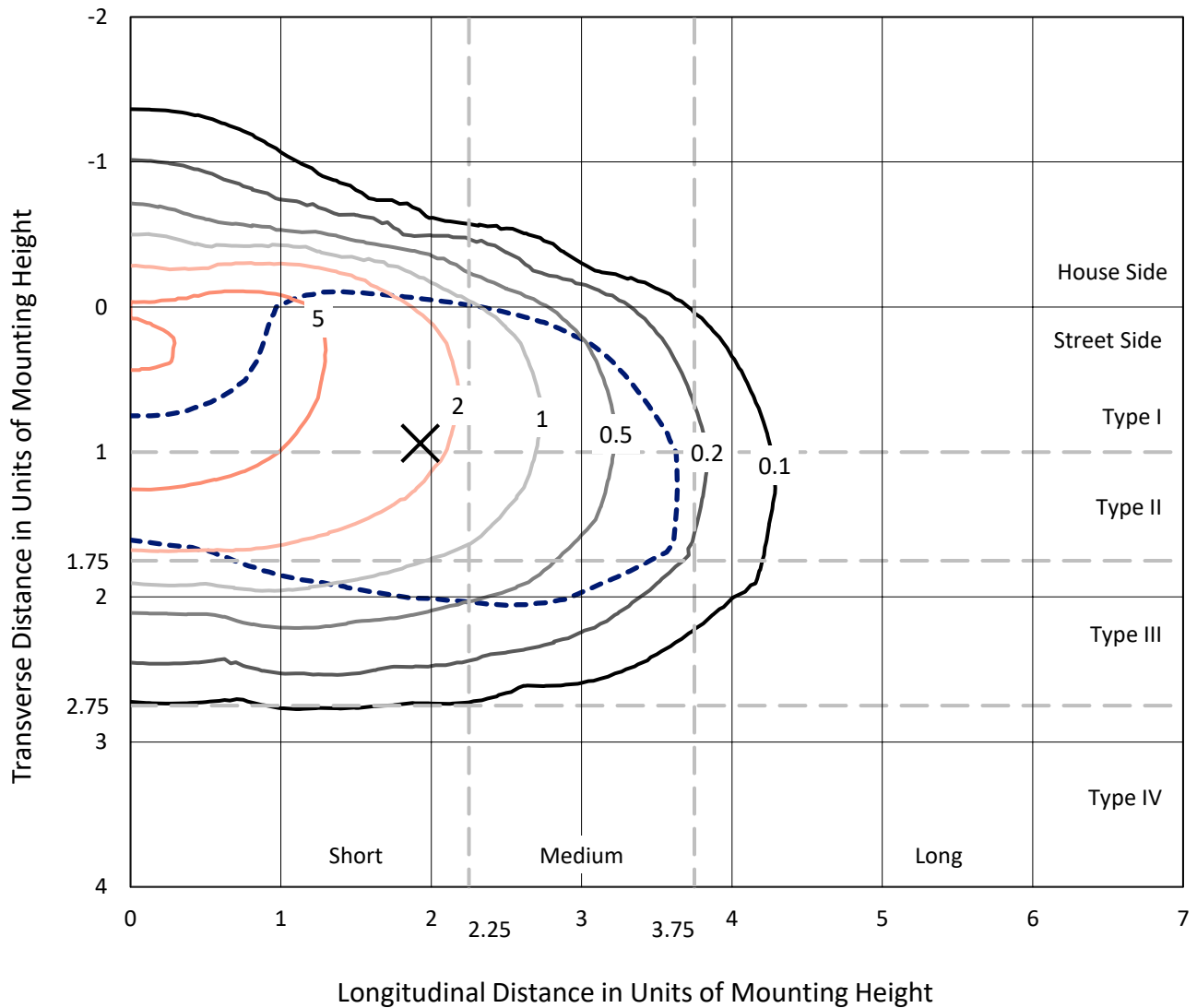
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943046
 CATALOG NUMBER: GALN-SB7B-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

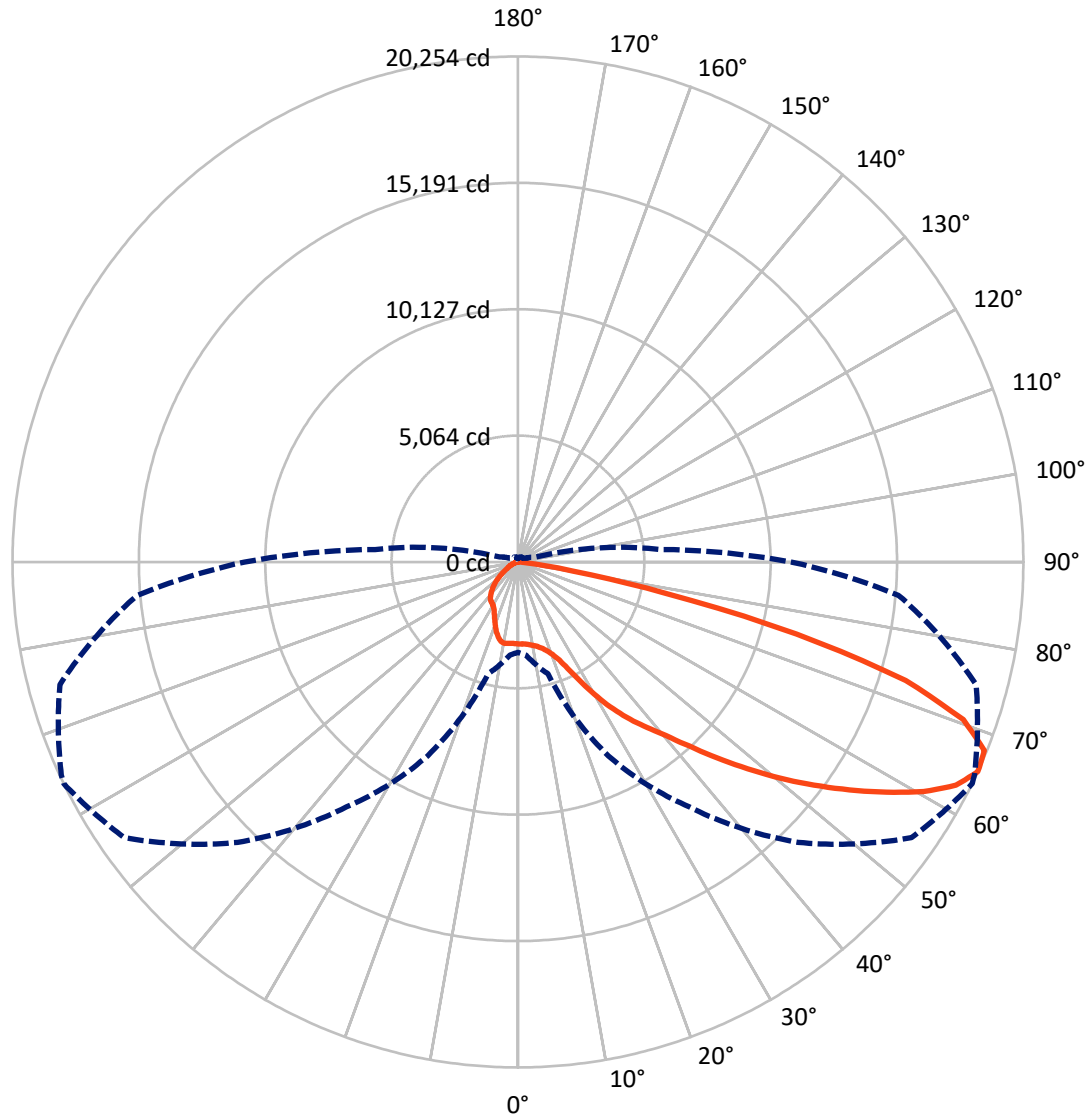
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - N/A

REPORT NUMBER: P943046
CATALOG NUMBER: GALN-SB7B-830-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P943046

CATALOG NUMBER: GALN-SB7B-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3774.0	0.0	3774.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	24447.0	0.0	24447.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	28221.0	0.0	28221.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	1.1
10°-20°	821.4	2.9
20°-30°	1556.4	5.5
30°-40°	3149.5	11.2
40°-50°	5365.2	19.0
50°-60°	7296.2	25.9
60°-70°	6851.5	24.3
70°-80°	2745.0	9.7
80°-90°	133.0	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°	28221.0	100.0
0°-180°	28221.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943046

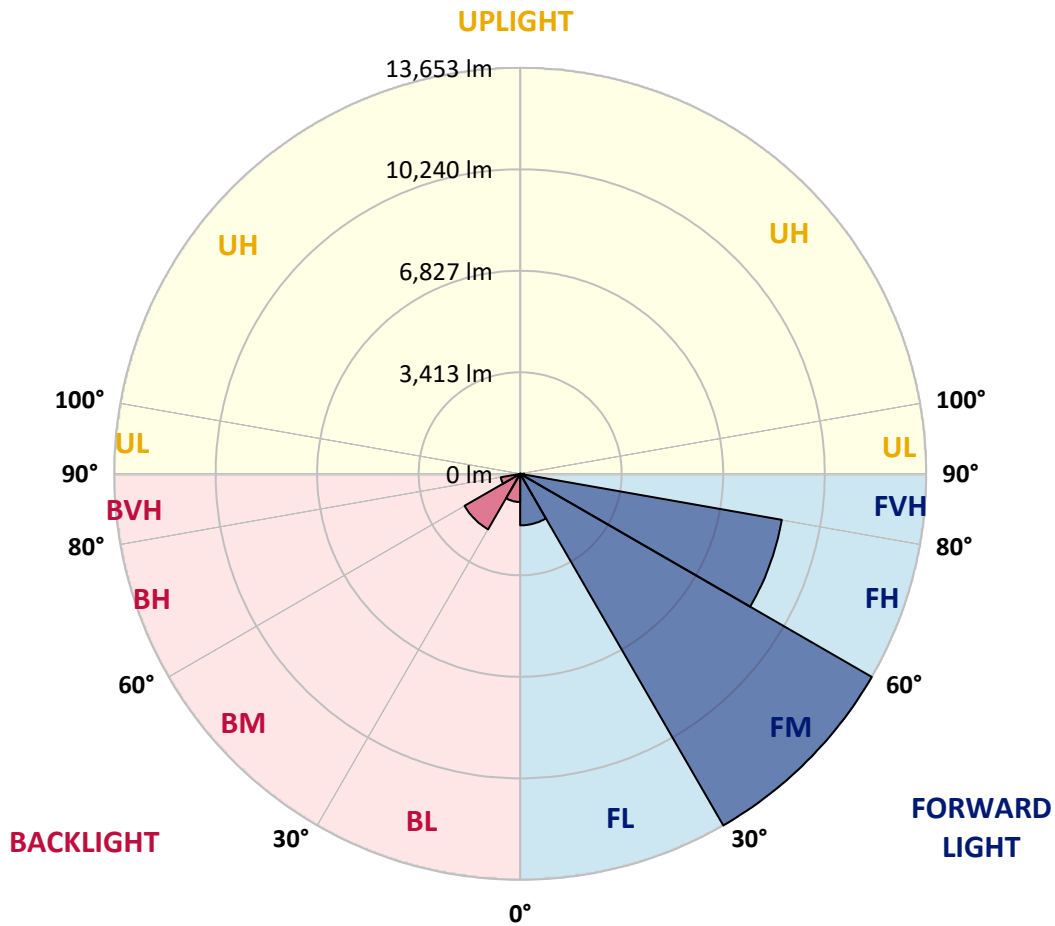
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1733.1	6.1			
FM (30°-60°)	13653.3	48.4			
FH (60°-80°)	8934.1	31.7			G4/12000
FVH (80°-90°)	126.5	0.4			G2/225
BL (0°-30°)	947.5	3.4	B2/1000		
BM (30°-60°)	2157.6	7.6	B2/2500		
BH (60°-80°)	662.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.5	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 Short



REPORT NUMBER: P943046

CATALOG NUMBER: GALN-SB7B-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4
2.5°	3271.0	3293.7	3288.1	3282.4	3280.5	3284.3	3286.2	3284.3	3284.3	3284.3
5°	3208.6	3227.5	3227.5	3240.8	3259.7	3282.4	3299.4	3303.2	3307.0	3312.7
7.5°	3089.4	3104.6	3115.9	3159.4	3206.7	3267.3	3318.3	3344.8	3348.6	3369.4
10°	3008.1	3027.0	3045.9	3091.3	3159.4	3250.2	3337.3	3401.6	3411.0	3460.2
12.5°	3004.3	3023.2	3047.8	3097.0	3176.5	3272.9	3378.9	3471.6	3488.6	3560.5
15°	3044.0	3066.7	3089.4	3150.0	3235.1	3352.4	3465.9	3581.3	3598.3	3700.5
17.5°	3125.4	3155.6	3172.7	3233.2	3324.0	3454.6	3604.0	3736.4	3751.6	3870.8
20°	3286.2	3322.1	3327.8	3377.0	3465.9	3605.9	3783.7	3948.3	3967.3	4103.5
22.5°	3619.1	3670.2	3624.8	3649.4	3728.9	3868.9	4061.8	4270.0	4296.4	4451.6
25°	4205.6	4277.5	4160.2	4118.6	4152.7	4298.3	4540.5	4803.5	4833.7	4958.6
27.5°	5357.8	5265.1	5087.2	4913.2	4811.0	4894.3	5166.7	5492.1	5529.9	5651.0
30°	6623.4	6542.1	6301.8	5915.9	5673.7	5660.5	5912.1	6275.3	6318.8	6434.3
32.5°	7891.0	7813.4	7552.3	7077.5	6657.5	6449.4	6623.4	7026.4	7049.1	7122.9
35°	9137.7	9058.3	8797.2	8311.0	7794.5	7321.5	7287.5	7741.5	7749.1	7826.7
37.5°	10392.0	10325.8	10047.7	9571.0	9062.1	8409.4	8093.4	8418.8	8428.3	8504.0
40°	11286.9	11315.3	11124.2	10755.3	10318.3	9605.0	8997.7	9139.6	9082.9	9209.6
42.5°	12055.0	12111.8	11945.3	11759.9	11506.4	10878.3	10117.7	10093.1	10002.3	10070.4
45°	12719.0	12766.3	12616.9	12573.4	12567.7	12126.9	11341.8	11194.2	11067.4	11054.2
47.5°	12963.1	13053.9	13118.2	13263.9	13547.7	13362.3	12607.4	12378.5	12236.6	12132.6
50°	13055.8	13152.3	13371.7	13795.5	14467.1	14546.6	13867.4	13610.1	13436.1	13246.9
52.5°	12930.9	13103.1	13398.2	14111.5	15085.8	15496.3	15076.3	14851.2	14652.5	14344.2
55°	12195.0	12367.2	12970.7	14107.7	15394.2	16162.2	16219.0	16118.7	15895.5	15409.3
57.5°	10643.7	10899.1	11854.5	13627.1	15388.5	16735.5	17339.0	17410.9	17161.2	16464.9
60°	8494.5	8840.7	10006.1	12562.0	14913.6	17045.8	18320.9	18680.3	18415.5	17505.5
62.5°	5927.2	6328.3	7431.3	10893.4	13827.7	16822.5	19037.9	19701.9	19501.4	18436.3
65°	3615.4	3744.0	4633.2	8572.1	11981.2	15887.9	19259.2	20254.4	20188.2	19005.7
67.5°	2408.4	2516.2	2771.6	5878.0	9300.4	14020.7	18729.5	20157.9	20176.8	18913.0
70°	1451.1	1543.8	1710.3	3418.6	6027.5	11097.7	17089.3	18928.2	19037.9	17673.9
72.5°	597.8	660.3	811.6	1549.4	3121.6	7043.4	13608.2	16251.2	16506.6	14860.6
75°	338.6	370.8	476.8	777.6	1354.6	3282.4	8242.9	11536.6	11913.1	10242.6
77.5°	225.1	240.3	308.4	503.2	762.4	1120.0	3522.7	6010.5	6729.4	5594.3
80°	151.3	164.6	211.9	336.8	495.7	480.5	1121.9	2226.7	2739.4	1922.1
82.5°	102.2	104.1	151.3	221.3	314.1	232.7	331.1	692.4	870.3	556.2
85°	58.6	56.8	111.6	128.6	140.0	96.5	100.3	208.1	272.4	234.6
87.5°	7.6	11.4	43.5	34.1	18.9	20.8	20.8	35.9	53.0	56.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943046
 CATALOG NUMBER: GALN-SB7B-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3282.4	0°	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4	3282.4
3286.2	2.5°	3286.2	3284.3	3278.6	3272.9	3259.7	3252.1	3255.9	3252.1	3250.2	3252.1
3310.8	5°	3310.8	3305.1	3290.0	3271.0	3244.6	3212.4	3191.6	3161.3	3132.9	3115.9
3377.0	7.5°	3377.0	3371.3	3350.5	3297.5	3212.4	3078.1	2955.1	2847.3	2765.9	2718.6
3482.9	10°	3482.9	3473.5	3441.3	3324.0	3100.8	2807.5	2563.5	2361.1	2228.6	2166.2
3607.8	12.5°	3607.8	3596.4	3539.7	3299.4	2888.9	2431.1	2094.3	1869.2	1746.2	1691.3
3751.6	15°	3755.4	3740.2	3628.6	3182.1	2580.5	2014.8	1706.5	1538.1	1458.6	1409.4
3935.1	17.5°	3938.9	3912.4	3694.8	3006.2	2245.7	1697.0	1468.1	1341.3	1271.3	1224.0
4175.4	20°	4177.3	4133.7	3747.8	2796.2	1937.3	1496.5	1307.3	1201.3	1148.4	1106.7
4515.9	22.5°	4510.2	4447.8	3812.1	2569.2	1719.7	1358.4	1188.1	1110.5	1067.0	1019.7
4990.8	25°	4922.6	4848.9	3891.6	2359.2	1570.3	1239.2	1101.1	1036.7	985.7	930.8
5613.2	27.5°	5499.7	5367.2	3986.2	2187.0	1441.6	1137.0	1021.6	949.7	891.1	845.7
6318.8	30°	6142.9	5925.3	4069.4	2082.9	1324.3	1042.4	917.6	845.7	790.8	758.6
6952.6	32.5°	6752.1	6457.0	4124.3	2037.5	1218.4	934.6	804.0	726.5	684.9	675.4
7573.2	35°	7327.2	6937.5	4118.6	1994.0	1123.8	826.7	692.4	613.0	580.8	586.5
8241.0	37.5°	7989.4	7450.2	4078.9	1925.9	1046.2	728.4	595.9	525.9	497.6	499.5
9052.6	40°	8759.4	8042.3	4054.3	1797.3	961.1	637.6	516.5	459.7	438.9	431.3
9907.7	42.5°	9580.4	8615.6	4058.1	1651.6	855.1	556.2	461.6	414.3	395.4	389.7
10859.3	45°	10405.3	9162.3	4063.7	1500.3	743.5	493.8	421.9	382.2	370.8	363.2
11824.2	47.5°	11181.0	9627.7	3957.8	1337.6	633.8	446.5	389.7	363.2	353.8	344.3
12792.8	50°	11903.6	9938.0	3702.4	1148.4	546.8	408.6	365.1	346.2	336.8	327.3
13670.7	52.5°	12465.5	9987.2	3280.5	953.5	486.2	380.3	350.0	333.0	321.6	312.2
14380.1	55°	12715.3	9678.8	2680.8	771.9	438.9	355.7	334.9	317.8	304.6	295.1
14938.2	57.5°	12650.9	9029.9	2090.5	620.5	393.5	331.1	315.9	304.6	289.5	274.3
15390.4	60°	12335.0	8161.5	1575.9	516.5	351.9	304.6	295.1	285.7	264.9	242.2
15564.4	62.5°	11788.2	7069.9	1123.8	427.6	306.5	274.3	270.5	263.0	232.7	191.1
15307.1	65°	10952.0	5743.7	756.7	355.7	263.0	240.3	242.2	228.9	189.2	141.9
14365.0	67.5°	9729.9	4200.0	484.3	291.3	219.5	200.5	202.4	194.9	160.8	121.1
12579.0	70°	8172.9	2781.0	315.9	221.3	175.9	155.1	166.5	168.4	136.2	98.4
9654.2	72.5°	5991.6	1642.1	221.3	164.6	128.6	107.8	136.2	140.0	109.7	73.8
5808.0	75°	3414.8	779.5	166.5	119.2	79.5	75.7	105.9	105.9	75.7	49.2
2514.3	77.5°	1434.0	325.4	117.3	77.6	45.4	43.5	71.9	66.2	37.8	22.7
613.0	80°	414.3	145.7	62.4	37.8	18.9	17.0	28.4	20.8	9.5	3.8
232.7	82.5°	162.7	64.3	24.6	15.1	7.6	7.6	3.8	0.0	0.0	0.0
132.4	85°	96.5	26.5	11.4	5.7	1.9	0.0	0.0	0.0	0.0	0.0
28.4	87.5°	24.6	5.7	3.8	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>
3282.4
3259.7
3119.7
2720.5
2160.5
1685.7
1411.3
1220.3
1099.2
1012.2
925.1
836.2
753.0
681.1
586.5
507.0
429.5
387.8
363.2
344.3
327.3
310.3
293.2
272.4
238.4
187.3
<i>138.1</i>
115.4
94.6
70.0
45.4
22.7
3.8
0.0
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