

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: P943936

Luminaire Tested: **GALN-SB8C-927-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943936
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-SB8C-927-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 615mA 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: 28909 lumens
Efficiency: N/A
Efficacy: 72.3 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

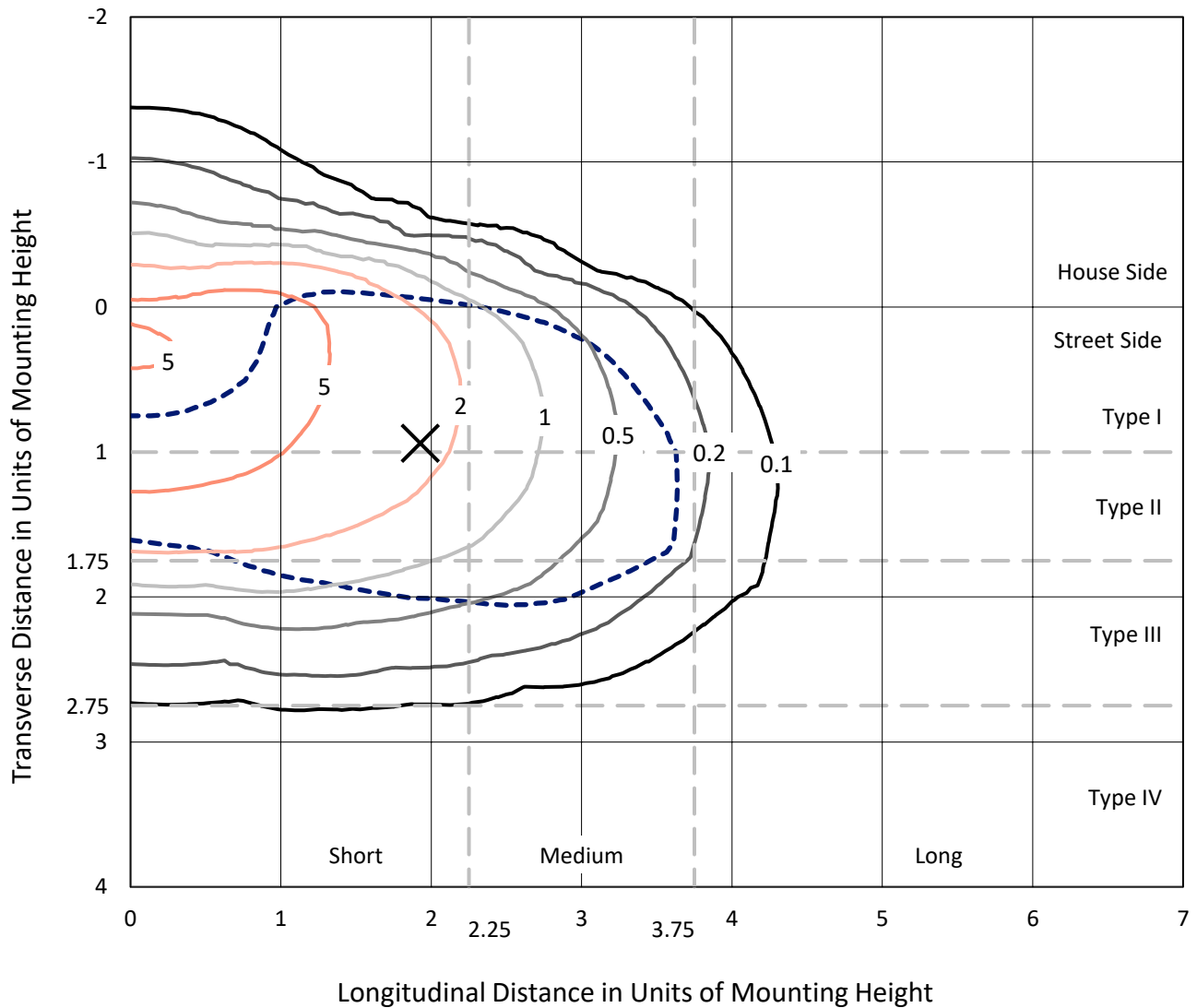
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

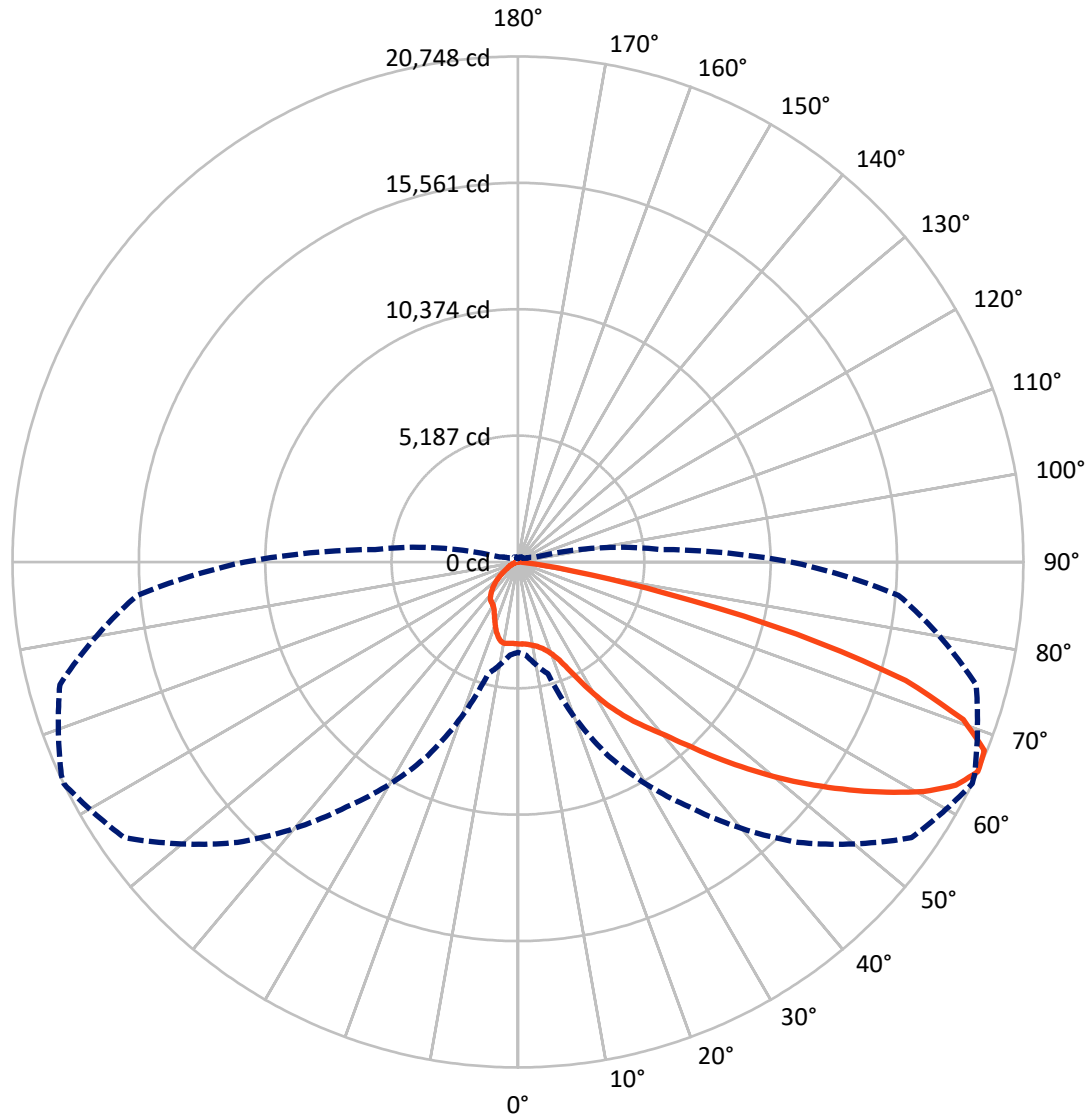
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	3866.0	0.0	3866.0
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25043.0	0.0	25043.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	28909.0	0.0	28909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.1
10°-20°	841.4	2.9
20°-30°	1594.4	5.5
30°-40°	3226.3	11.2
40°-50°	5496.0	19.0
50°-60°	7474.1	25.9
60°-70°	7018.5	24.3
70°-80°	2811.9	9.7
80°-90°	136.2	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°	28909.0	100.0
0°-180°	28909.0	100.0

Coefficient of Utilization



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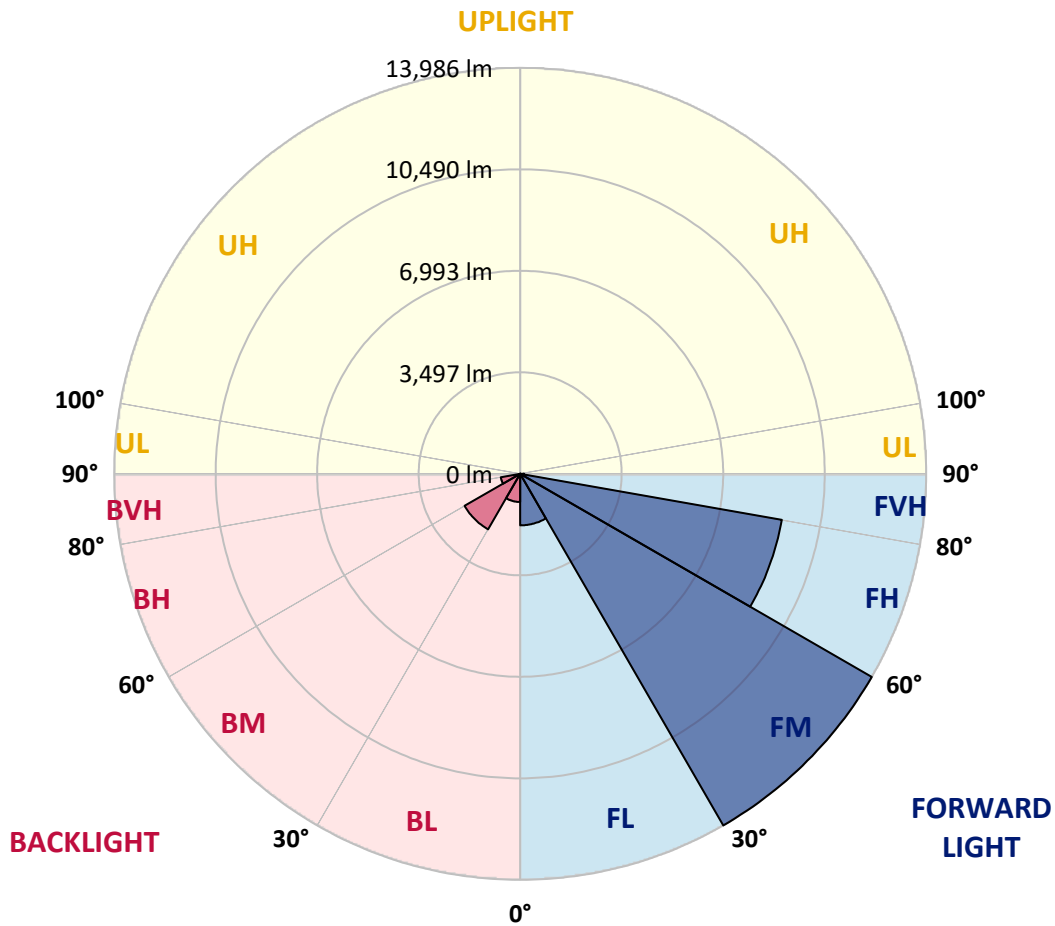
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1775.3	6.1			
FM (30°-60°)	13986.1	48.4			
FH (60°-80°)	9151.9	31.7			G4/12000
FVH (80°-90°)	129.6	0.4			G2/225
BL (0°-30°)	970.6	3.4	B2/1000		
BM (30°-60°)	2210.2	7.6	B2/2500		
BH (60°-80°)	678.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	6.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4
2.5°	3350.8	3374.0	3368.2	3362.4	3360.5	3364.4	3366.3	3364.4	3364.4	3364.4
5°	3286.8	3306.2	3306.2	3319.8	3339.2	3362.4	3379.9	3383.7	3387.6	3393.4
7.5°	3164.7	3180.2	3191.9	3236.4	3284.9	3346.9	3399.2	3426.4	3430.2	3451.6
10°	3081.4	3100.8	3120.2	3166.7	3236.4	3329.5	3418.6	3484.5	3494.2	3544.6
12.5°	3077.5	3096.9	3122.1	3172.5	3253.9	3352.7	3461.3	3556.2	3573.7	3647.3
15°	3118.2	3141.5	3164.7	3226.8	3314.0	3434.1	3550.4	3668.6	3686.1	3790.7
17.5°	3201.6	3232.6	3250.0	3312.0	3405.1	3538.8	3691.9	3827.5	3843.0	3965.1
20°	3366.3	3403.1	3408.9	3459.3	3550.4	3693.8	3876.0	4044.6	4064.0	4203.5
22.5°	3707.4	3759.7	3713.2	3738.4	3819.8	3963.2	4160.9	4374.0	4401.2	4560.1
25°	4308.2	4381.8	4261.6	4219.0	4253.9	4403.1	4651.2	4920.6	4951.6	5079.5
27.5°	5488.4	5393.4	5211.3	5033.0	4928.3	5013.6	5292.7	5626.0	5664.8	5788.8
30°	6784.9	6701.6	6455.5	6060.1	5812.0	5798.5	6056.2	6428.3	6472.9	6591.1
32.5°	8083.4	8003.9	7736.5	7250.0	6819.8	6606.6	6784.9	7197.7	7221.0	7296.5
35°	9360.5	9279.1	9011.7	8513.6	7984.5	7500.0	7465.1	7930.3	7938.0	8017.5
37.5°	10645.4	10577.6	10292.7	9804.3	9283.0	8614.4	8290.7	8624.1	8633.8	8711.3
40°	11562.1	11591.1	11395.4	11017.5	10569.8	9839.2	9217.1	9362.4	9304.3	9434.1
42.5°	12348.9	12407.0	12236.5	12046.6	11786.9	11143.5	10364.4	10339.2	10246.2	10315.9
45°	13029.1	13077.6	12924.5	12879.9	12874.1	12422.5	11618.3	11467.1	11337.3	11323.7
47.5°	13279.1	13372.1	13438.0	13587.3	13878.0	13688.0	12914.8	12680.3	12534.9	12428.3
50°	13374.1	13472.9	13697.7	14131.8	14819.8	14901.2	14205.5	13941.9	13763.6	13569.8
52.5°	13246.2	13422.5	13724.9	14455.5	15453.6	15874.1	15443.9	15213.2	15009.8	14693.9
55°	12492.3	12668.7	13286.9	14451.6	15769.4	16556.3	16614.4	16511.7	16283.0	15784.9
57.5°	10903.1	11164.8	12143.5	13959.4	15763.6	17143.5	17761.7	17835.3	17579.5	16866.3
60°	8701.6	9056.2	10250.0	12868.3	15277.2	17461.3	18767.5	19135.7	18864.4	17932.2
62.5°	6071.7	6482.6	7612.4	11159.0	14164.8	17232.6	19502.0	20182.3	19976.8	18885.7
65°	3703.5	3835.3	4746.1	8781.0	12273.3	16275.3	19728.8	20748.1	20680.3	19469.1
67.5°	2467.1	2577.5	2839.2	6021.3	9527.2	14362.5	19186.1	20649.3	20668.7	19374.1
70°	1486.4	1581.4	1751.9	3502.0	6174.4	11368.3	17505.9	19389.6	19502.0	18104.7
72.5°	612.4	676.4	831.4	1587.2	3197.7	7215.1	13940.0	16647.4	16909.0	15222.9
75°	346.9	379.8	488.4	796.5	1387.6	3362.4	8443.8	11817.9	12203.5	10492.3
77.5°	230.6	246.1	315.9	515.5	781.0	1147.3	3608.5	6157.0	6893.4	5730.6
80°	155.0	168.6	217.1	345.0	507.8	492.3	1149.2	2281.0	2806.2	1969.0
82.5°	104.7	106.6	155.0	226.7	321.7	238.4	339.1	709.3	891.5	569.8
85°	60.1	58.1	114.3	131.8	143.4	98.8	102.7	213.2	279.1	240.3
87.5°	7.8	11.6	44.6	34.9	19.4	21.3	21.3	36.8	54.3	58.1
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°
3362.4	0°	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4	3362.4
3366.3	2.5°	3366.3	3364.4	3358.5	3352.7	3339.2	3331.4	3335.3	3331.4	3329.5	3331.4
3391.5	5°	3391.5	3385.7	3370.2	3350.8	3323.7	3290.7	3269.4	3238.4	3209.3	3191.9
3459.3	7.5°	3459.3	3453.5	3432.2	3377.9	3290.7	3153.1	3027.1	2916.7	2833.3	2784.9
3567.8	10°	3567.8	3558.2	3525.2	3405.1	3176.4	2876.0	2626.0	2418.6	2283.0	2219.0
3695.8	12.5°	3695.8	3684.1	3626.0	3379.9	2959.3	2490.3	2145.4	1914.7	1788.8	1732.6
3843.0	15°	3846.9	3831.4	3717.1	3259.7	2643.4	2064.0	1748.1	1575.6	1494.2	1443.8
4031.0	17.5°	4034.9	4007.8	3784.9	3079.5	2300.4	1738.4	1503.9	1374.0	1302.3	1253.9
4277.1	20°	4279.1	4234.5	3839.2	2864.4	1984.5	1533.0	1339.2	1230.6	1176.4	1133.7
4626.0	22.5°	4620.2	4556.2	3905.1	2631.8	1761.6	1391.5	1217.1	1137.6	1093.0	1044.6
5112.4	25°	5042.7	4967.1	3986.5	2416.7	1608.5	1269.4	1127.9	1062.0	1009.7	953.5
5750.0	27.5°	5633.7	5498.1	4083.4	2240.3	1476.8	1164.7	1046.5	972.9	912.8	866.3
6472.9	30°	6292.7	6069.8	4168.6	2133.7	1356.6	1067.8	939.9	866.3	810.1	777.1
7122.1	32.5°	6916.7	6614.4	4224.8	2087.2	1248.1	957.4	823.6	744.2	701.6	691.9
7757.8	35°	7505.8	7106.6	4219.0	2042.6	1151.2	846.9	709.3	627.9	595.0	600.8
8441.9	37.5°	8184.1	7631.8	4178.3	1972.9	1071.7	746.1	610.5	538.8	509.7	511.6
9273.3	40°	8972.9	8238.4	4153.1	1841.1	984.5	653.1	529.1	470.9	449.6	441.9
10149.3	42.5°	9814.0	8825.6	4157.0	1691.9	876.0	569.8	472.9	424.4	405.0	399.2
11124.1	45°	10659.0	9385.7	4162.8	1536.8	761.6	505.8	432.2	391.5	379.8	372.1
12112.5	47.5°	11453.5	9862.4	4054.3	1370.2	649.2	457.4	399.2	372.1	362.4	352.7
13104.7	50°	12193.8	10180.3	3792.7	1176.4	560.1	418.6	374.0	354.7	345.0	335.3
14003.9	52.5°	12769.4	10230.7	3360.5	976.7	498.1	389.5	358.5	341.1	329.5	319.8
14730.7	55°	13025.2	9914.8	2746.1	790.7	449.6	364.3	343.0	325.6	312.0	302.3
15302.4	57.5°	12959.4	9250.0	2141.5	635.7	403.1	339.1	323.6	312.0	296.5	281.0
15765.6	60°	12635.7	8360.5	1614.3	529.1	360.5	312.0	302.3	292.6	271.3	248.1
15943.9	62.5°	12075.6	7242.3	1151.2	438.0	314.0	281.0	277.1	269.4	238.4	195.7
15680.3	65°	11219.0	5883.7	775.2	364.3	269.4	246.1	248.1	234.5	193.8	145.3
14715.2	67.5°	9967.1	4302.3	496.1	298.5	224.8	205.4	207.4	199.6	164.7	124.0
12885.7	70°	8372.1	2848.8	323.6	226.7	180.2	158.9	170.5	172.5	139.5	100.8
9889.6	72.5°	6137.6	1682.2	226.7	168.6	131.8	110.5	139.5	143.4	112.4	75.6
5949.6	75°	3498.1	798.5	170.5	122.1	81.4	77.5	108.5	108.5	77.5	50.4
2575.6	77.5°	1469.0	333.3	120.2	79.5	46.5	44.6	73.6	67.8	38.8	23.3
627.9	80°	424.4	149.2	64.0	38.8	19.4	17.4	29.1	21.3	9.7	3.9
238.4	82.5°	166.7	65.9	25.2	15.5	7.8	7.8	3.9	0.0	0.0	0.0
135.7	85°	98.8	27.1	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
29.1	87.5°	25.2	5.8	3.9	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>
3362.4
3339.2
3195.7
2786.8
2213.2
1726.8
1445.7
1250.0
1126.0
1036.8
947.7
856.6
771.3
697.7
600.8
519.4
439.9
397.3
372.1
352.7
335.3
317.8
300.4
279.1
244.2
191.9
141.5
118.2
96.9
71.7
46.5
23.3
3.9
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