

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: P942908

Luminaire Tested: **GALN-SB7A-850-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942908
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23104 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

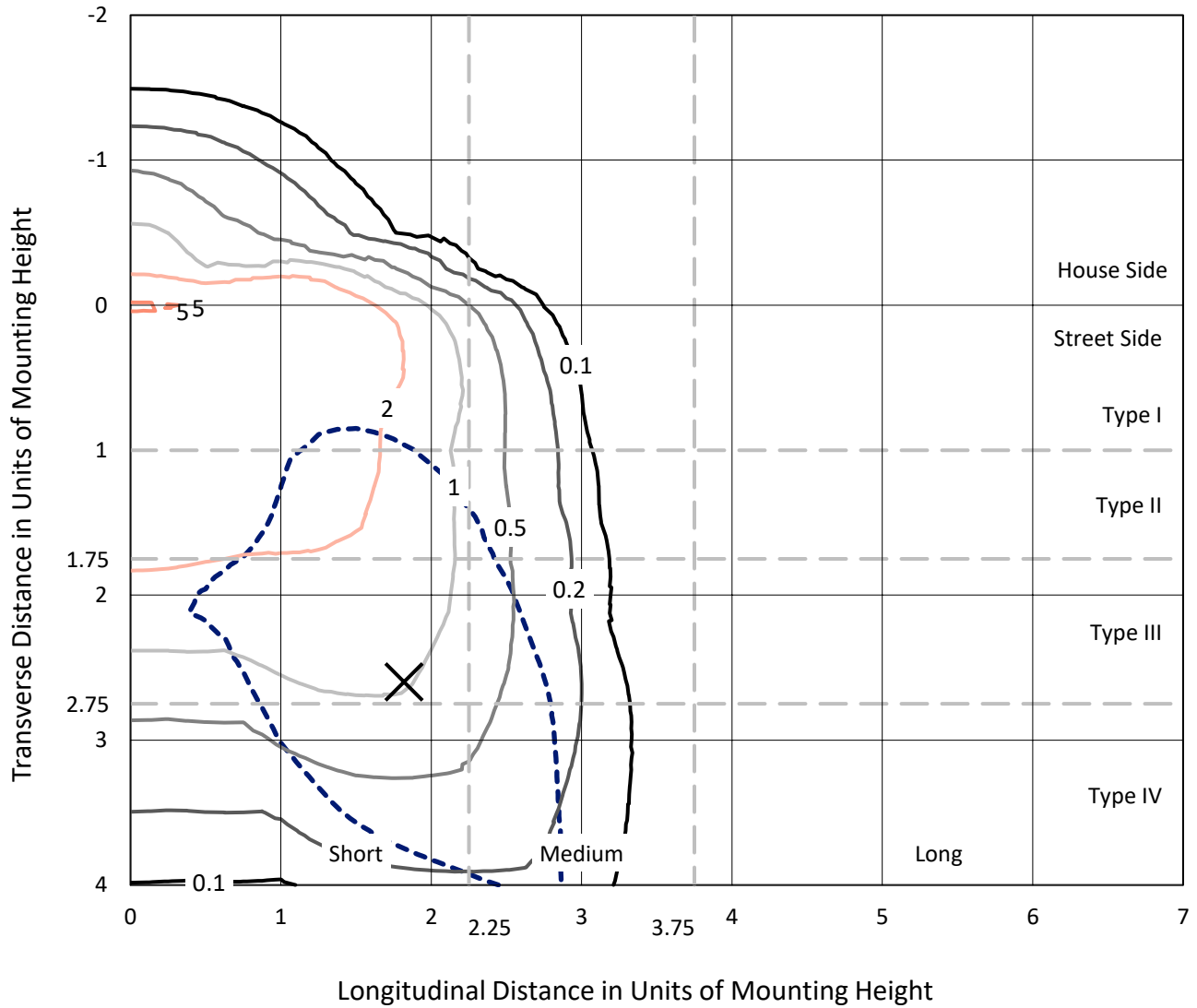
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

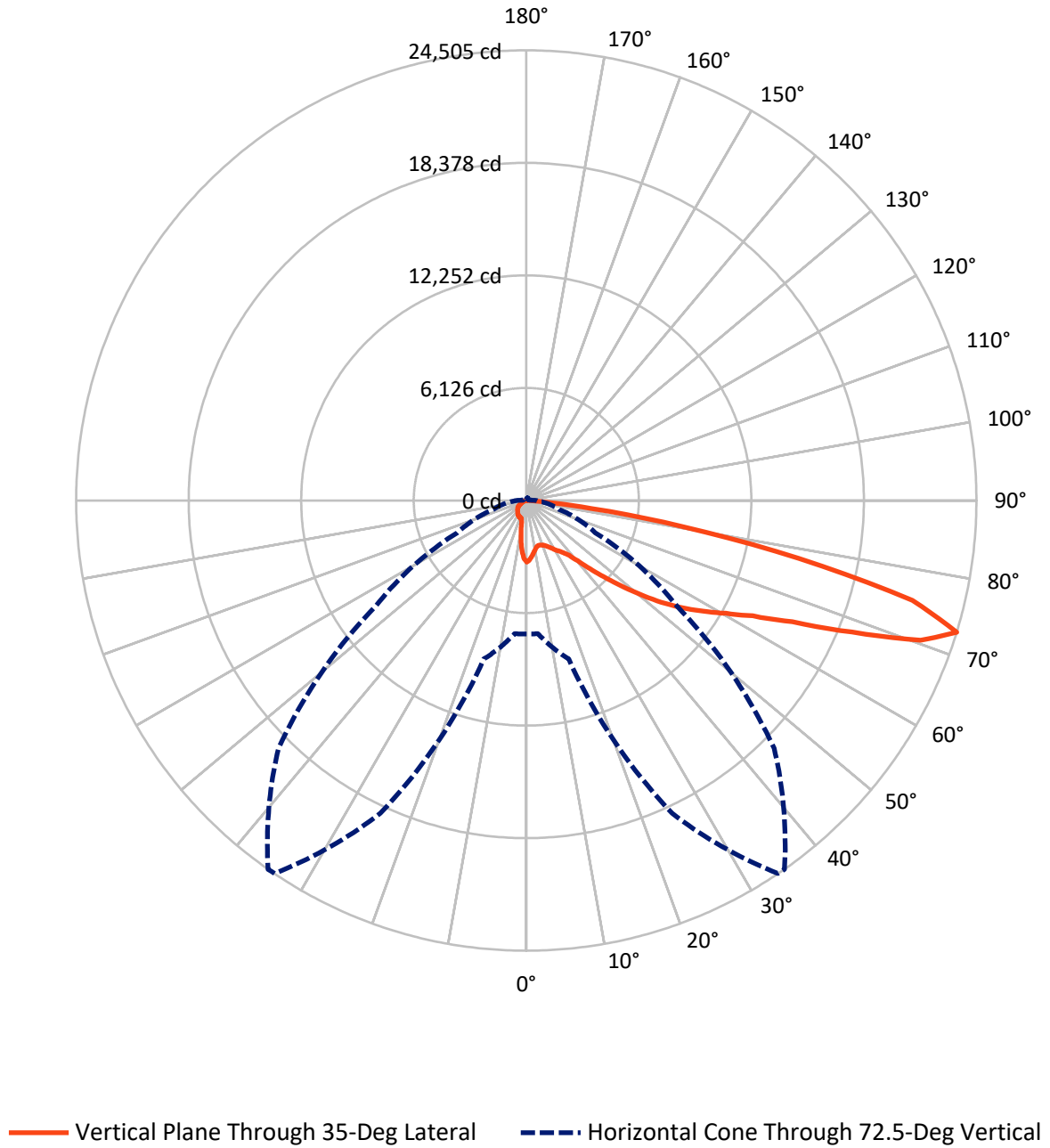
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2600.3	0.0	2600.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20503.8	0.0	20503.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	23104.0	0.0	23104.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.2	1.2
10°-20°	643.7	2.8
20°-30°	1045.7	4.5
30°-40°	1744.7	7.6
40°-50°	3301.0	14.3
50°-60°	5245.3	22.7
60°-70°	6488.9	28.1
70°-80°	4033.5	17.5
80°-90°	326.0	1.4
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°	23104.0	100.0
0°-180°	23104.0	100.0

Coefficient of Utilization



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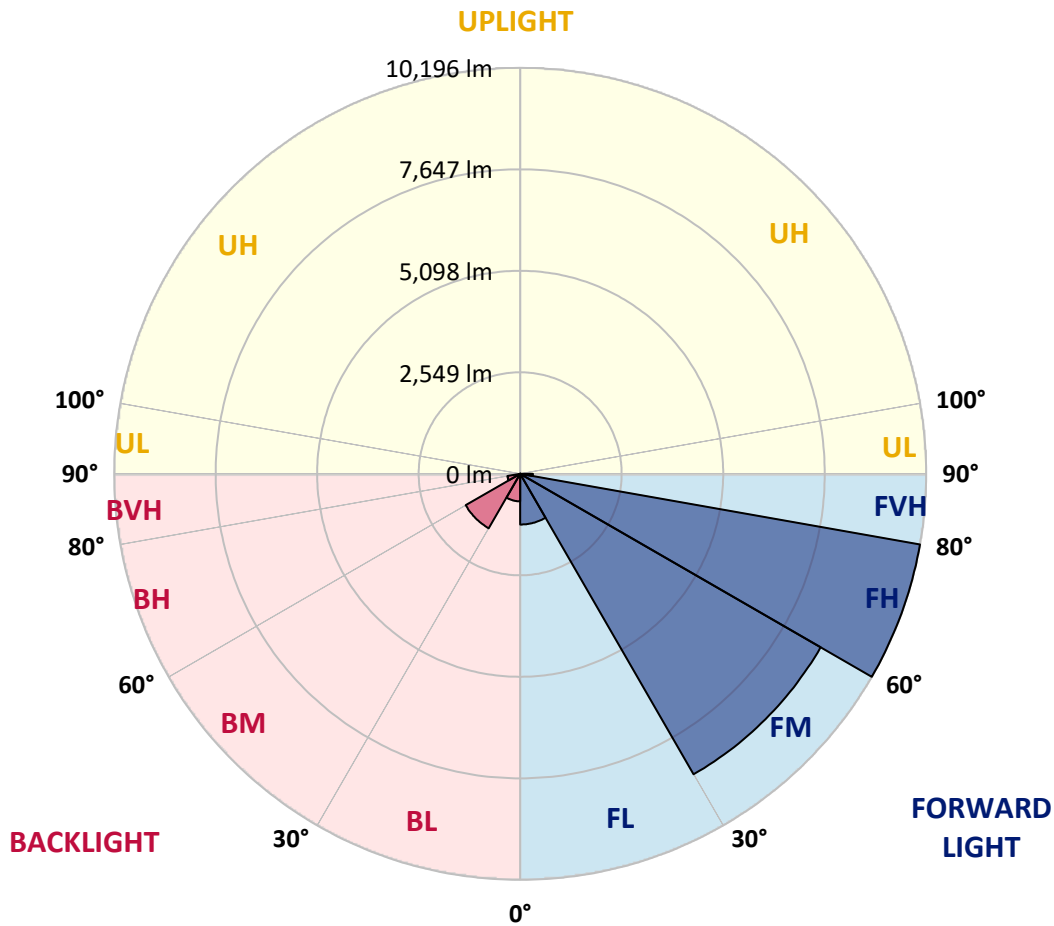
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.6	5.5			
FM (30°-60°)	8712.5	37.7			
FH (60°-80°)	10196.1	44.1			G4/12000
FVH (80°-90°)	321.5	1.4			G3/500
BL (0°-30°)	690.9	3.0	B2/1000		
BM (30°-60°)	1578.6	6.8	B2/2500		
BH (60°-80°)	326.3	1.4	B1/500		G1/500
BVH (80°-90°)	4.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5
2.5°	3199.6	3226.7	3231.7	3240.2	3240.2	3250.4	3267.3	3291.0	3329.9	3350.2
5°	2949.0	2969.3	2994.7	3015.0	3054.0	3059.1	3125.1	3189.4	3279.1	3346.9
7.5°	2696.8	2720.5	2754.3	2803.4	2854.2	2869.5	2969.3	3077.7	3219.9	3346.9
10°	2519.0	2520.7	2551.2	2600.3	2681.5	2700.2	2822.1	2976.1	3153.9	3326.5
12.5°	2419.1	2431.0	2444.5	2481.8	2559.7	2571.5	2701.9	2883.0	3087.8	3314.7
15°	2419.1	2427.6	2436.1	2454.7	2517.3	2527.5	2642.6	2823.7	3054.0	3319.8
17.5°	2444.5	2458.1	2451.3	2473.3	2539.3	2546.1	2647.7	2806.8	3052.3	3351.9
20°	2505.5	2515.6	2502.1	2515.6	2581.7	2595.2	2700.2	2839.0	3081.1	3407.8
22.5°	2602.0	2607.1	2574.9	2585.0	2652.8	2669.7	2791.6	2930.4	3150.5	3497.5
25°	2723.9	2734.0	2684.9	2696.8	2761.1	2781.4	2921.9	3067.5	3260.5	3621.1
27.5°	2864.4	2869.5	2827.1	2825.4	2908.4	2937.2	3079.4	3236.8	3407.8	3776.8
30°	3025.2	3040.4	2999.8	2993.0	3098.0	3121.7	3262.2	3445.0	3624.5	4010.5
32.5°	3152.2	3164.0	3140.3	3157.2	3263.9	3282.5	3484.0	3739.6	3964.8	4342.3
35°	3335.0	3341.8	3287.6	3318.1	3440.0	3487.4	3787.0	4152.7	4393.1	4758.7
37.5°	3996.9	3996.9	3766.7	3616.0	3732.8	3775.2	4201.8	4672.4	4921.2	5317.4
40°	4912.8	4897.5	4560.7	4252.5	4237.3	4320.3	4792.6	5327.5	5603.5	5987.8
42.5°	5889.6	5865.9	5407.1	5102.4	5051.6	5080.4	5474.8	6135.0	6416.1	6805.4
45°	6756.3	6749.6	6329.7	5920.1	5828.6	5920.1	6326.3	7079.7	7281.1	7690.8
47.5°	7482.6	7482.6	7176.2	6908.7	6861.3	6915.5	7479.2	8127.6	8109.0	8633.8
50°	8318.9	8312.1	8020.9	7905.8	7954.9	8031.1	8806.4	9231.4	8965.6	9559.8
52.5°	8904.6	8945.3	8845.4	8826.7	9077.3	9209.3	10154.0	10311.4	9732.4	10438.4
55°	9368.5	9415.9	9531.0	9661.3	10143.8	10316.5	11459.2	11335.6	10374.1	11200.2
57.5°	10025.3	9957.6	10135.4	10392.7	11173.1	11381.3	12723.8	12302.3	10890.4	11818.1
60°	10822.7	10832.8	10863.3	11188.3	12200.7	12468.2	13969.8	13216.4	11222.2	12197.3
62.5°	11780.8	11796.1	11858.7	12358.1	13580.4	13832.6	15297.0	13964.7	11374.6	12090.6
65°	11714.8	11779.2	12478.3	14186.5	15677.9	15926.7	16846.0	14489.5	11144.3	11115.5
67.5°	10672.0	10777.0	11946.8	16370.3	18840.2	19117.9	18718.3	14592.7	10150.6	8643.9
70°	9304.1	9341.4	10748.2	18334.0	22501.9	22783.0	20394.3	13456.8	7702.7	4821.4
72.5°	7265.9	7274.4	8924.9	18789.4	24489.4	24504.6	19078.9	9989.8	4142.5	1852.0
75°	5190.4	5139.6	5977.6	15237.7	21545.5	21718.1	14303.3	4685.9	1582.9	875.2
77.5°	2783.1	2839.0	3382.4	9036.7	14883.9	15178.5	7804.2	1350.9	805.8	595.9
80°	860.0	907.4	1386.5	4137.4	8430.6	8608.4	2893.2	601.0	562.0	424.9
82.5°	270.9	281.0	646.7	1738.6	3499.2	3580.5	838.0	340.3	384.3	281.0
85°	77.9	79.6	287.8	648.4	865.1	882.0	235.3	132.0	220.1	174.4
87.5°	8.5	27.1	108.3	108.3	76.2	74.5	25.4	28.8	62.6	22.0
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°
3348.5	0°	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5
3363.8	2.5°	3355.3	3357.0	3335.0	3297.8	3257.1	3223.3	3180.9	3147.1	3123.4	3116.6
3394.3	5°	3379.0	3367.2	3304.5	3191.1	3055.7	2938.9	2808.5	2705.2	2637.5	2608.7
3426.4	7.5°	3414.6	3380.7	3243.6	3020.1	2761.1	2530.9	2297.3	2116.1	2001.0	1943.4
3456.9	10°	3445.0	3377.3	3142.0	2773.0	2376.8	2028.1	1713.2	1494.8	1372.9	1315.4
3492.4	12.5°	3473.8	3375.6	3010.0	2480.1	1943.4	1516.8	1224.0	1115.6	1081.8	1069.9
3550.0	15°	3528.0	3380.7	2844.1	2144.9	1511.8	1146.1	1039.4	1037.7	1044.5	1041.1
3638.0	17.5°	3602.5	3385.8	2656.2	1789.4	1166.4	1010.7	1005.6	1020.8	1031.0	1025.9
3748.1	20°	3699.0	3406.1	2456.4	1437.3	1002.2	976.8	988.7	1002.2	1010.7	1002.2
3895.3	22.5°	3834.4	3441.7	2238.0	1154.6	949.7	956.5	966.6	981.9	990.3	978.5
4083.3	25°	4000.3	3497.5	2023.0	1003.9	924.3	932.8	948.0	964.9	975.1	963.3
4320.3	27.5°	4215.3	3587.2	1824.9	970.0	898.9	904.0	926.0	951.4	964.9	949.7
4657.2	30°	4526.8	3734.5	1654.0	985.3	883.7	871.8	902.3	937.9	953.1	939.6
5115.9	32.5°	4939.9	3942.8	1549.0	1009.0	876.9	834.6	863.4	909.1	934.5	926.0
5715.2	35°	5481.6	4259.3	1508.4	1036.1	871.8	795.7	816.0	865.1	909.1	917.5
6470.2	37.5°	6138.4	4699.5	1520.2	1047.9	856.6	763.5	773.7	816.0	873.5	900.6
7320.1	40°	6885.0	5212.4	1587.9	1036.1	839.7	736.4	738.1	770.3	821.1	861.7
8234.2	42.5°	7655.3	5811.7	1713.2	992.0	824.4	712.7	707.6	729.6	763.5	792.3
9146.7	45°	8388.3	6427.9	1836.8	931.1	805.8	689.0	677.2	685.6	692.4	704.2
10035.5	47.5°	9028.2	6861.3	1801.2	875.2	780.4	661.9	641.6	638.2	617.9	616.2
10829.4	50°	9470.0	6956.1	1599.8	819.4	743.2	631.4	599.3	579.0	543.4	526.5
11423.6	52.5°	9610.6	6582.0	1306.9	763.5	682.2	590.8	545.1	512.9	468.9	453.7
11765.6	55°	9424.3	5848.9	1044.5	695.8	597.6	536.6	485.9	443.5	408.0	389.4
11802.9	57.5°	8969.0	4916.2	826.1	616.2	507.9	475.7	424.9	382.6	352.1	333.5
11389.8	60°	8213.9	3903.8	653.5	521.4	433.4	409.7	357.2	330.1	303.0	281.0
10323.3	62.5°	7067.8	2786.5	512.9	413.1	362.3	335.2	304.7	284.4	252.2	221.8
8405.2	65°	5515.4	1704.7	396.1	303.0	291.2	277.6	259.0	240.4	201.5	171.0
5483.3	67.5°	3478.9	807.5	282.7	228.5	230.2	223.5	215.0	199.8	171.0	143.9
2456.4	70°	1532.1	391.1	186.2	174.4	171.0	171.0	177.8	172.7	145.6	120.2
853.2	72.5°	521.4	209.9	138.8	132.0	123.6	121.9	149.0	143.9	116.8	93.1
424.9	75°	272.6	140.5	101.6	94.8	74.5	89.7	118.5	111.7	83.0	60.9
281.0	77.5°	177.8	99.9	69.4	60.9	42.3	59.3	88.0	77.9	49.1	30.5
184.5	80°	111.7	66.0	40.6	28.8	20.3	32.2	47.4	33.9	18.6	6.8
108.3	82.5°	59.3	33.9	15.2	10.2	8.5	10.2	11.9	8.5	3.4	0.0
55.9	85°	23.7	11.9	5.1	3.4	1.7	0.0	3.4	1.7	0.0	0.0
10.2	87.5°	8.5	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

<u>180°</u>
3348.5
3128.5
2618.9
1951.9
1317.1
1066.5
1039.4
1024.2
1000.5
976.8
961.6
949.7
937.9
926.0
917.5
907.4
875.2
804.1
711.0
614.5
528.2
452.0
389.4
330.1
275.9
216.7
165.9
140.5
115.1
<i>88.0</i>
55.9
27.1
5.1
0.0
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