

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: P941398

Luminaire Tested: **GALN-SB4D-930-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941398
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-SB4D-930-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 900mA 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: 21481 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

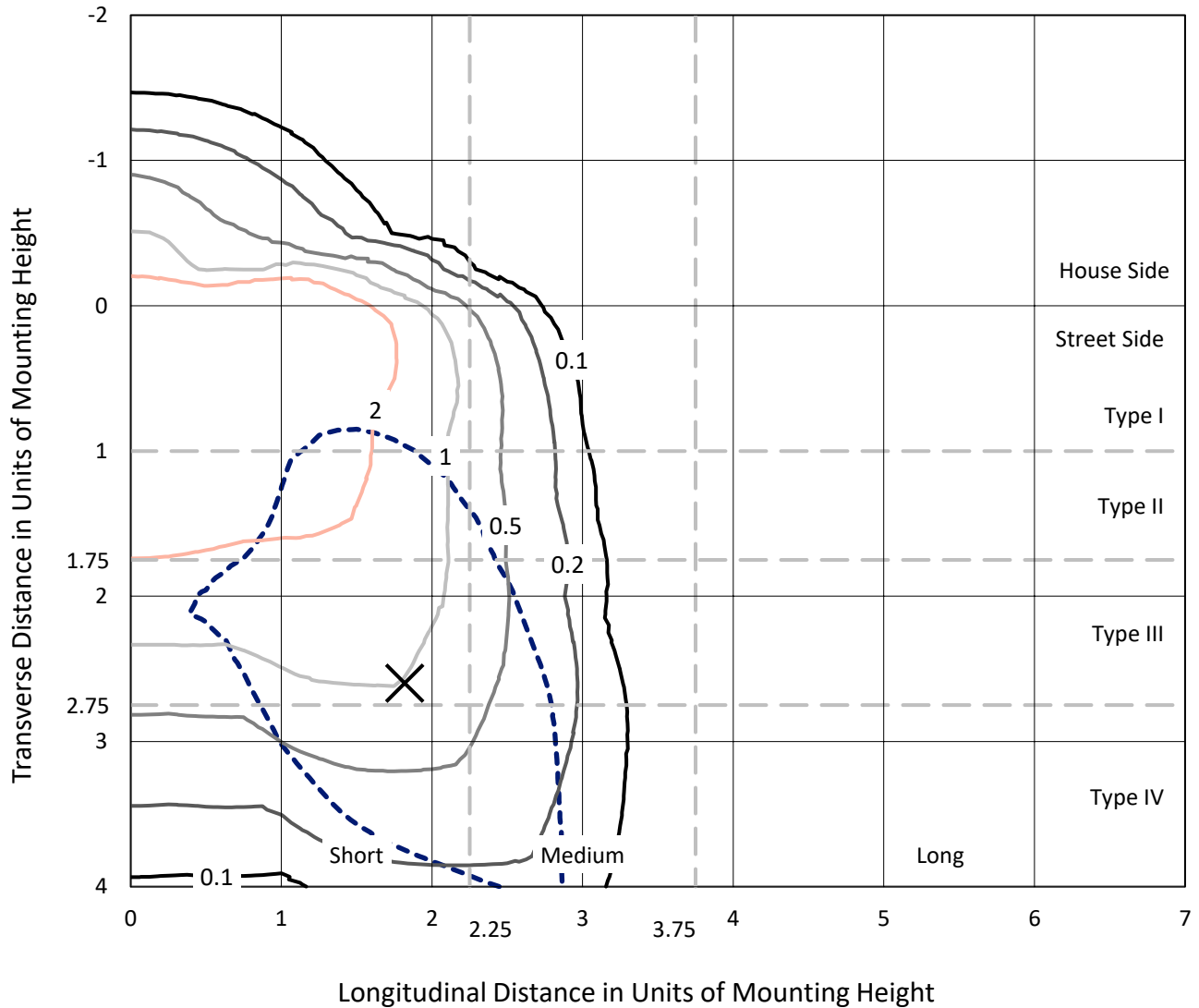
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

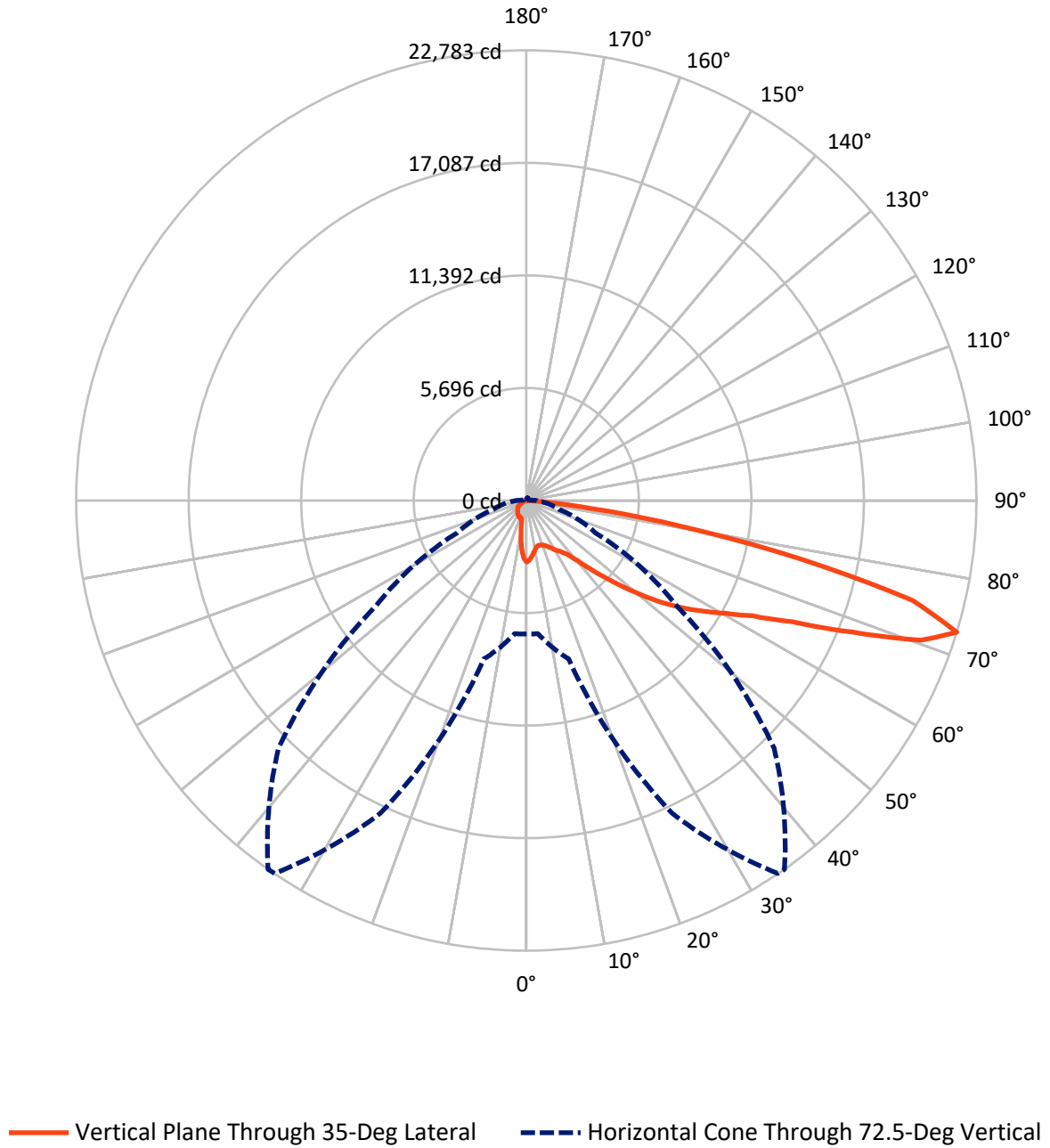
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	2417.6	0.0	2417.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19063.4	0.0	19063.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	21481.0	0.0	21481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.8	1.2
10°-20°	598.5	2.8
20°-30°	972.2	4.5
30°-40°	1622.2	7.6
40°-50°	3069.2	14.3
50°-60°	4876.9	22.7
60°-70°	6033.0	28.1
70°-80°	3750.2	17.5
80°-90°	303.1	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°	21481.0	100.0
0°-180°	21481.0	100.0

Coefficient of Utilization



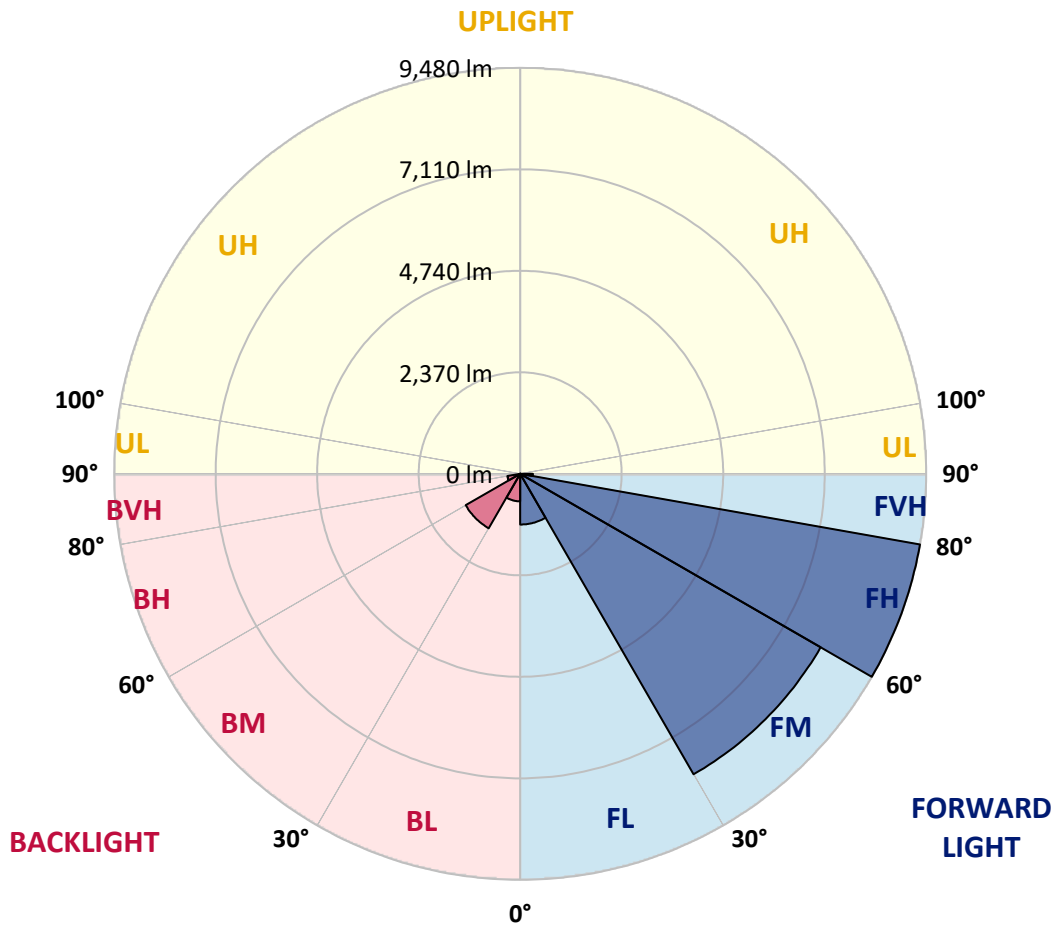
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.1	5.5			
FM (30°-60°)	8100.5	37.7			
FH (60°-80°)	9479.8	44.1			G4/12000
FVH (80°-90°)	299.0	1.4			G3/500
BL (0°-30°)	642.4	3.0	B2/1000		
BM (30°-60°)	1467.7	6.8	B2/2500		
BH (60°-80°)	303.4	1.4	B1/500		G1/500
BVH (80°-90°)	4.1	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°	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3
2.5°	2974.8	3000.0	3004.7	3012.6	3012.6	3022.0	3037.8	3059.8	3096.0	3114.9
5°	2741.9	2760.7	2784.4	2803.2	2839.4	2844.2	2905.6	2965.4	3048.8	3111.7
7.5°	2507.3	2529.4	2560.9	2606.5	2653.7	2667.9	2760.7	2861.5	2993.7	3111.7
10°	2342.1	2343.6	2372.0	2417.6	2493.2	2510.5	2623.8	2767.0	2932.3	3092.9
12.5°	2249.2	2260.2	2272.8	2307.4	2379.8	2390.9	2512.1	2680.5	2870.9	3081.8
15°	2249.2	2257.1	2264.9	2282.3	2340.5	2349.9	2457.0	2625.4	2839.4	3086.6
17.5°	2272.8	2285.4	2279.1	2299.6	2361.0	2367.3	2461.7	2609.6	2837.9	3116.5
20°	2329.5	2338.9	2326.3	2338.9	2400.3	2412.9	2510.5	2639.6	2864.6	3168.4
22.5°	2419.2	2423.9	2394.0	2403.5	2466.4	2482.2	2595.5	2724.5	2929.2	3251.8
25°	2532.5	2542.0	2496.3	2507.3	2567.1	2586.0	2716.7	2852.0	3031.5	3366.7
27.5°	2663.2	2667.9	2628.5	2627.0	2704.1	2730.8	2863.1	3009.4	3168.4	3511.5
30°	2812.7	2826.9	2789.1	2782.8	2880.4	2902.4	3033.0	3203.0	3369.9	3728.7
32.5°	2930.7	2941.8	2919.7	2935.5	3034.6	3051.9	3239.2	3476.9	3686.2	4037.2
35°	3100.7	3107.0	3056.7	3085.0	3198.3	3242.4	3521.0	3861.0	4084.5	4424.4
37.5°	3716.1	3716.1	3502.1	3362.0	3470.6	3510.0	3906.6	4344.2	4575.5	4943.8
40°	4567.7	4553.5	4240.3	3953.8	3939.7	4016.8	4455.9	4953.3	5209.8	5567.1
42.5°	5475.8	5453.8	5027.3	4744.0	4696.7	4723.5	5090.2	5704.1	5965.4	6327.4
45°	6281.7	6275.4	5885.1	5504.2	5419.2	5504.2	5881.9	6582.4	6769.7	7150.6
47.5°	6957.0	6957.0	6672.1	6423.4	6379.3	6429.7	6953.8	7556.6	7539.3	8027.3
50°	7734.5	7728.2	7457.5	7350.5	7396.1	7466.9	8187.8	8582.9	8335.8	8888.2
52.5°	8279.1	8316.9	8224.0	8206.7	8439.6	8562.4	9440.7	9587.1	9048.8	9705.1
55°	8710.4	8754.4	8861.5	8982.7	9431.2	9591.8	10654.2	10539.3	9645.3	10413.4
57.5°	9321.1	9258.1	9423.4	9662.6	10388.2	10581.8	11830.0	11438.1	10125.4	10987.9
60°	10062.4	10071.8	10100.2	10402.4	11343.6	11592.3	12988.4	12288.0	10433.9	11340.5
62.5°	10953.3	10967.4	11025.7	11490.0	12626.4	12860.9	14222.4	12983.7	10575.5	11241.3
65°	10891.9	10951.7	11601.7	13189.9	14576.6	14807.9	15662.6	13471.6	10361.5	10334.7
67.5°	9922.3	10019.9	11107.5	15220.3	17516.7	17774.9	17403.4	13567.6	9437.5	8036.7
70°	8650.6	8685.2	9993.1	17046.1	20921.2	21182.5	18961.6	12511.5	7161.6	4482.7
72.5°	6755.5	6763.4	8298.0	17469.5	22769.1	22783.2	17738.7	9288.0	3851.5	1721.9
75°	4825.8	4778.6	5557.7	14167.3	20031.9	20192.5	13298.5	4356.8	1471.7	813.7
77.5°	2587.6	2639.6	3144.8	8401.9	13838.4	14112.2	7256.0	1256.0	749.2	554.0
80°	799.6	843.6	1289.1	3846.8	7838.4	8003.6	2689.9	558.8	522.6	395.1
82.5°	251.8	261.3	601.3	1616.5	3253.4	3329.0	779.1	316.4	357.3	261.3
85°	72.4	74.0	267.6	602.8	804.3	820.0	218.8	122.8	204.6	162.1
87.5°	7.9	25.2	100.7	100.7	70.8	69.3	23.6	26.8	58.2	20.5
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°
3113.3	0°	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3	3113.3
3127.5	2.5°	3119.6	3121.2	3100.7	3066.1	3028.3	2996.8	2957.5	2926.0	2904.0	2897.7
3155.8	5°	3141.6	3130.6	3072.4	2966.9	2841.0	2732.4	2611.2	2515.2	2452.2	2425.5
3185.7	7.5°	3174.7	3143.2	3015.7	2808.0	2567.1	2353.1	2135.9	1967.5	1860.4	1806.9
3214.1	10°	3203.0	3140.1	2921.3	2578.2	2209.9	1885.6	1592.9	1389.8	1276.5	1223.0
3247.1	12.5°	3229.8	3138.5	2798.5	2305.9	1806.9	1410.3	1138.0	1037.2	1005.8	994.8
3300.6	15°	3280.2	3143.2	2644.3	1994.2	1405.6	1065.6	966.4	964.8	971.1	968.0
3382.5	17.5°	3349.4	3147.9	2469.6	1663.7	1084.5	939.7	934.9	949.1	958.5	953.8
3484.8	20°	3439.1	3166.8	2283.8	1336.3	931.8	908.2	919.2	931.8	939.7	931.8
3621.7	22.5°	3565.0	3199.9	2080.8	1073.4	883.0	889.3	898.7	912.9	920.8	909.8
3796.4	25°	3719.3	3251.8	1880.9	933.4	859.4	867.3	881.4	897.2	906.6	895.6
4016.8	27.5°	3919.2	3335.2	1696.7	901.9	835.8	840.5	861.0	884.6	897.2	883.0
4330.0	30°	4208.8	3472.2	1537.8	916.1	821.6	810.6	838.9	872.0	886.1	873.6
4756.5	32.5°	4592.9	3665.8	1440.2	938.1	815.3	776.0	802.7	845.2	868.8	861.0
5313.7	35°	5096.5	3960.1	1402.4	963.3	810.6	739.8	758.7	804.3	845.2	853.1
6015.7	37.5°	5707.2	4369.3	1413.4	974.3	796.4	709.9	719.3	758.7	812.2	837.4
6805.9	40°	6401.3	4846.3	1476.4	963.3	780.7	684.7	686.3	716.2	763.4	801.2
7655.8	42.5°	7117.5	5403.4	1592.9	922.3	766.5	662.6	657.9	678.4	709.9	736.6
8504.2	45°	7799.0	5976.4	1707.8	865.7	749.2	640.6	629.6	637.5	643.8	654.8
9330.5	47.5°	8394.0	6379.3	1674.7	813.7	725.6	615.4	596.5	593.4	574.5	572.9
10068.7	50°	8804.8	6467.5	1487.4	761.8	691.0	587.1	557.2	538.3	505.2	489.5
10621.2	52.5°	8935.4	6119.6	1215.1	709.9	634.3	549.3	506.8	476.9	436.0	421.8
10939.1	55°	8762.3	5438.1	971.1	646.9	555.6	498.9	451.7	412.4	379.3	362.0
10973.7	57.5°	8338.9	4570.8	768.1	572.9	472.2	442.3	395.1	355.7	327.4	310.1
10589.7	60°	7636.9	3629.6	607.6	484.8	402.9	380.9	332.1	306.9	281.7	261.3
9598.1	62.5°	6571.3	2590.8	476.9	384.0	336.8	311.6	283.3	264.4	234.5	206.2
7814.8	65°	5128.0	1585.0	368.3	281.7	270.7	258.1	240.8	223.5	187.3	159.0
5098.1	67.5°	3234.5	750.8	262.9	212.5	214.1	207.8	199.9	185.7	159.0	133.8
2283.8	70°	1424.4	363.6	173.1	162.1	159.0	159.0	165.3	160.5	135.4	111.8
793.3	72.5°	484.8	195.2	129.1	122.8	114.9	113.3	138.5	133.8	108.6	86.6
395.1	75°	253.4	130.6	94.4	88.1	69.3	83.4	110.2	103.9	77.1	56.7
261.3	77.5°	165.3	92.9	64.5	56.7	39.3	55.1	81.8	72.4	45.6	28.3
171.6	80°	103.9	61.4	37.8	26.8	18.9	29.9	44.1	31.5	17.3	6.3
100.7	82.5°	55.1	31.5	14.2	9.4	7.9	9.4	11.0	7.9	3.1	0.0
51.9	85°	22.0	11.0	4.7	3.1	1.6	0.0	3.1	1.6	0.0	0.0
9.4	87.5°	7.9	1.6	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>
3113.3
2908.7
2434.9
1814.8
1224.6
991.6
966.4
952.3
930.2
908.2
894.0
883.0
872.0
861.0
853.1
843.6
813.7
747.6
661.1
571.4
491.1
420.3
362.0
306.9
256.6
201.5
154.2
130.6
107.0
<i>81.8</i>
51.9
25.2
4.7
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