

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: P940618

Luminaire Tested: **GALN-SB3D-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940618
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-SB3D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 23117 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

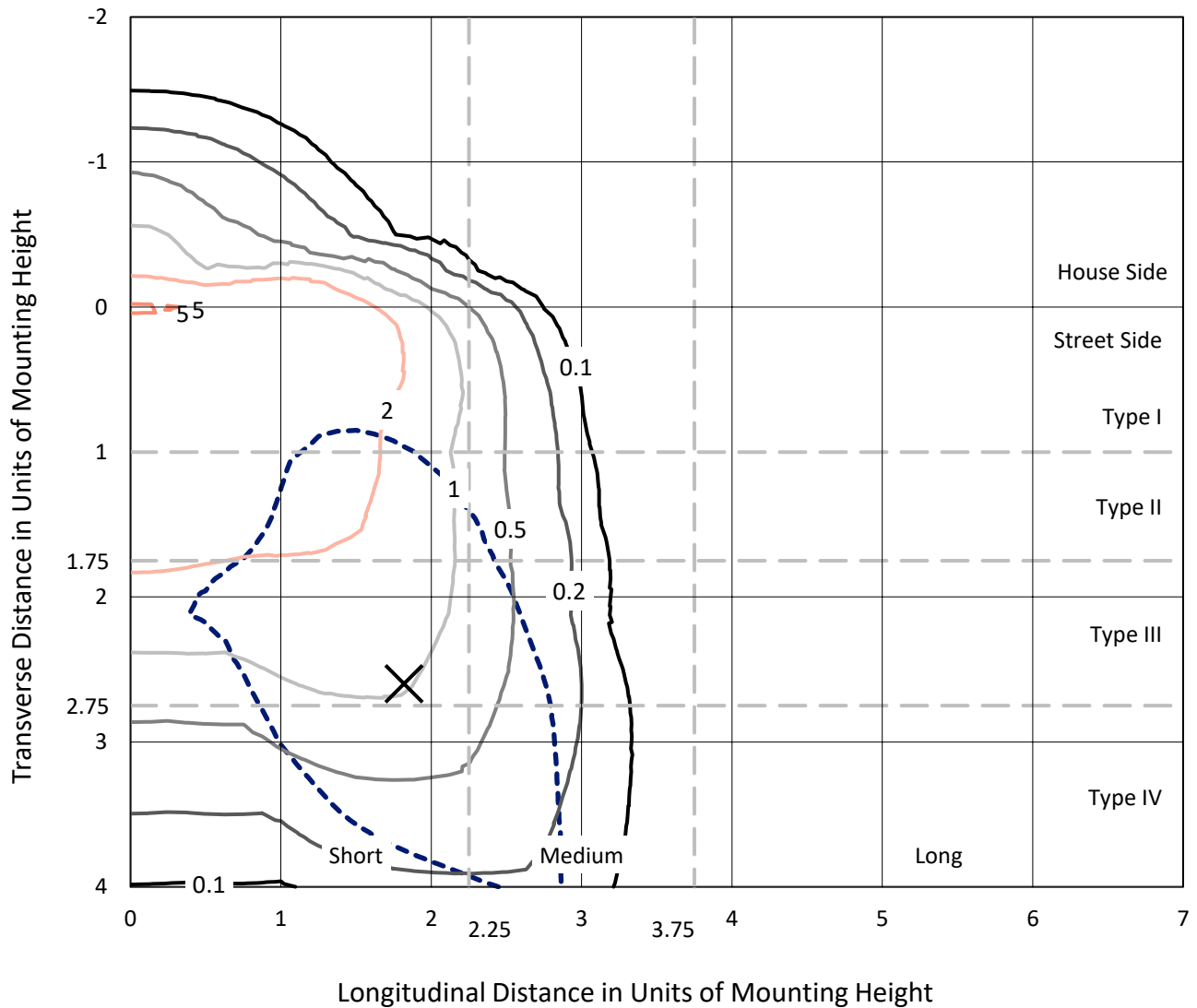
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

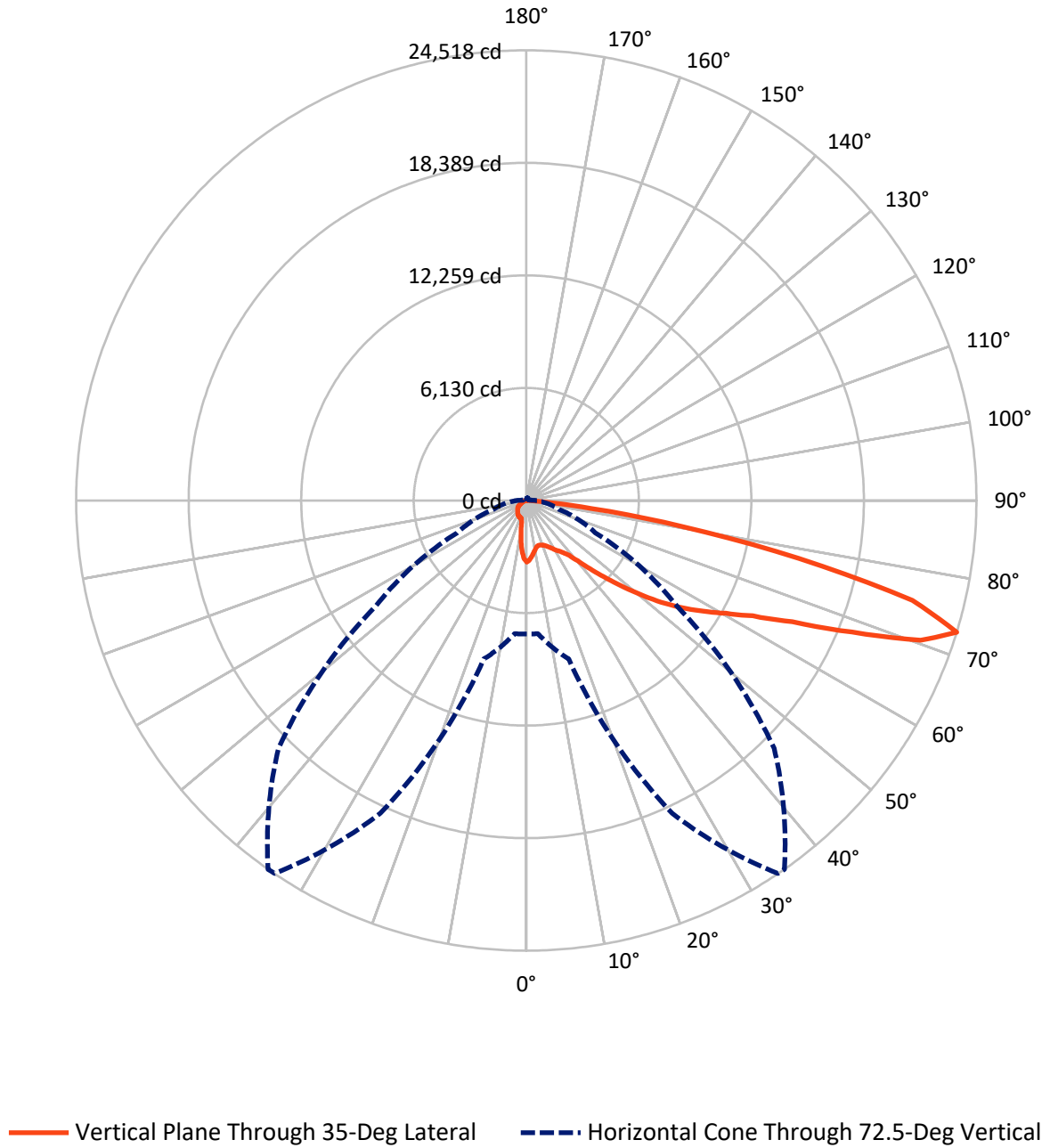
✕ Max cd
 - - - 1/2 Max cd



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	2601.7	0.0	2601.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20515.3	0.0	20515.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	23117.0	0.0	23117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	1.2
10°-20°	644.1	2.8
20°-30°	1046.3	4.5
30°-40°	1745.7	7.6
40°-50°	3302.9	14.3
50°-60°	5248.3	22.7
60°-70°	6492.5	28.1
70°-80°	4035.8	17.5
80°-90°	326.2	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°	23117.0	100.0
0°-180°	23117.0	100.0

Coefficient of Utilization



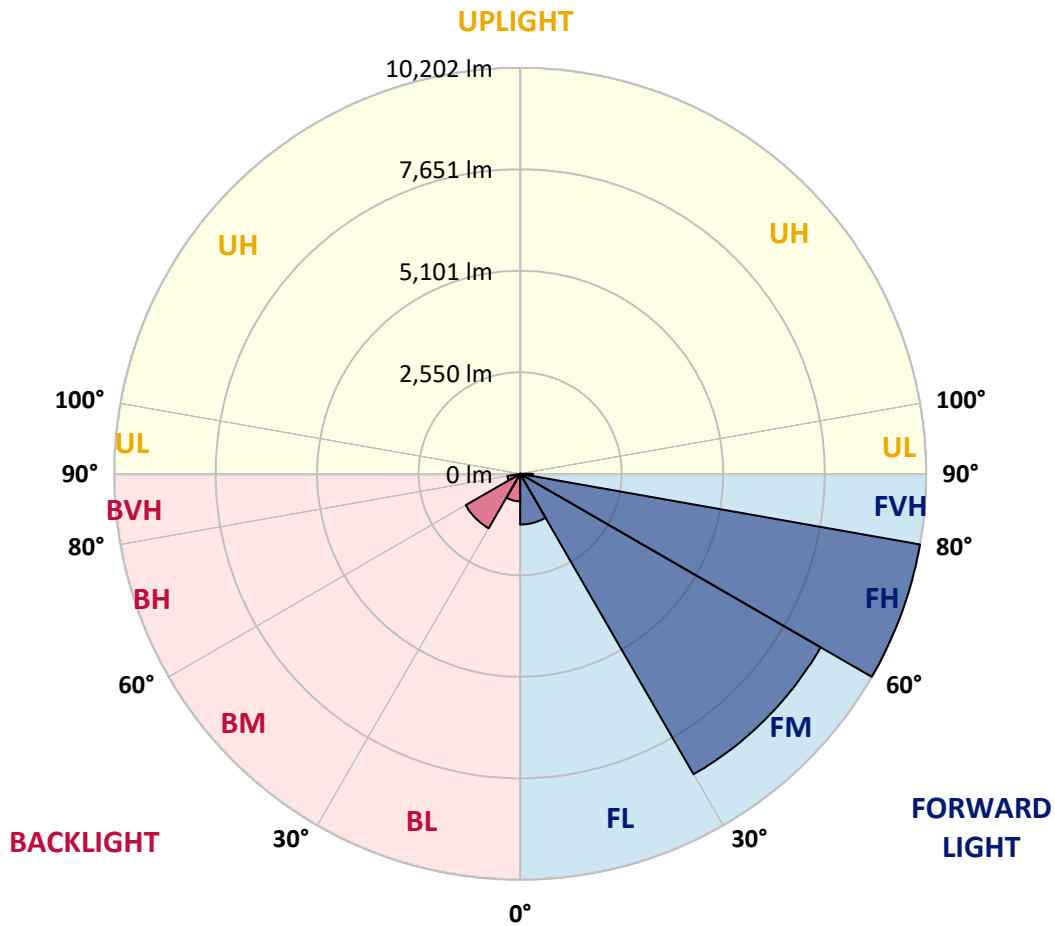
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1274.3	5.5			
FM (30°-60°)	8717.4	37.7			
FH (60°-80°)	10201.8	44.1			G4/12000
FVH (80°-90°)	321.7	1.4			G3/500
BL (0°-30°)	691.3	3.0	B2/1000		
BM (30°-60°)	1579.5	6.8	B2/2500		
BH (60°-80°)	326.5	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°	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4
2.5°	3201.4	3228.5	3233.6	3242.0	3242.0	3252.2	3269.1	3292.8	3331.8	3352.1
5°	2950.7	2971.0	2996.4	3016.7	3055.7	3060.8	3126.8	3191.2	3281.0	3348.7
7.5°	2698.3	2722.0	2755.9	2805.0	2855.8	2871.1	2971.0	3079.4	3221.7	3348.7
10°	2520.4	2522.1	2552.6	2601.7	2683.1	2701.7	2823.6	2977.8	3155.6	3328.4
12.5°	2420.5	2432.4	2445.9	2483.2	2561.1	2573.0	2703.4	2884.6	3089.6	3316.6
15°	2420.5	2429.0	2437.4	2456.1	2518.7	2528.9	2644.1	2825.3	3055.7	3321.6
17.5°	2445.9	2459.5	2452.7	2474.7	2540.8	2547.5	2649.2	2808.4	3054.0	3353.8
20°	2506.9	2517.1	2503.5	2517.1	2583.1	2596.7	2701.7	2840.6	3082.8	3409.7
22.5°	2603.4	2608.5	2576.3	2586.5	2654.3	2671.2	2793.2	2932.0	3152.2	3499.5
25°	2725.4	2735.6	2686.4	2698.3	2762.7	2783.0	2923.6	3069.2	3262.3	3623.1
27.5°	2866.0	2871.1	2828.7	2827.0	2910.0	2938.8	3081.1	3238.6	3409.7	3779.0
30°	3026.9	3042.1	3001.5	2994.7	3099.7	3123.5	3264.0	3447.0	3626.5	4012.7
32.5°	3153.9	3165.8	3142.1	3159.0	3265.7	3284.4	3485.9	3741.7	3967.0	4344.7
35°	3336.9	3343.7	3289.4	3319.9	3441.9	3489.3	3789.1	4155.0	4395.5	4761.4
37.5°	3999.2	3999.2	3768.8	3618.1	3734.9	3777.3	4204.1	4675.0	4924.0	5320.4
40°	4915.5	4900.3	4563.2	4254.9	4239.7	4322.7	4795.3	5330.5	5606.6	5991.1
42.5°	5892.9	5869.2	5410.1	5105.3	5054.4	5083.2	5477.9	6138.5	6419.7	6809.3
45°	6760.1	6753.4	6333.3	5923.4	5831.9	5923.4	6329.9	7083.7	7285.2	7695.1
47.5°	7486.8	7486.8	7180.2	6912.6	6865.2	6919.4	7483.4	8132.2	8113.5	8638.6
50°	8323.6	8316.8	8025.4	7910.3	7959.4	8035.6	8811.4	9236.5	8970.6	9565.2
52.5°	8909.6	8950.3	8850.3	8831.7	9082.4	9214.5	10159.7	10317.2	9737.9	10444.3
55°	9373.7	9421.2	9536.4	9666.8	10149.5	10322.3	11465.6	11342.0	10379.9	11206.5
57.5°	10031.0	9963.2	10141.1	10398.5	11179.4	11387.7	12731.0	12309.2	10896.5	11824.7
60°	10828.8	10838.9	10869.4	11194.6	12207.6	12475.2	13977.6	13223.9	11228.5	12204.2
62.5°	11787.5	11802.7	11865.4	12365.1	13588.0	13840.4	15305.6	13972.5	11381.0	12097.5
65°	11721.4	11785.8	12485.3	14194.4	15686.7	15935.7	16855.5	14497.6	11150.6	11121.8
67.5°	10678.0	10783.0	11953.5	16379.5	18850.8	19128.6	18728.9	14601.0	10156.3	8648.8
70°	9309.4	9346.6	10754.2	18344.4	22514.6	22795.8	20405.8	13464.4	7707.0	4824.1
72.5°	7270.0	7278.5	8930.0	18800.0	24503.2	24518.4	19089.6	9995.4	4144.8	1853.1
75°	5193.3	5142.5	5981.0	15246.3	21557.6	21730.4	14311.3	4688.6	1583.7	875.7
77.5°	2784.7	2840.6	3384.3	9041.8	14892.3	15187.0	7808.6	1351.7	806.3	596.2
80°	860.5	907.9	1387.3	4139.8	8435.4	8613.2	2894.8	601.3	562.4	425.2
82.5°	271.0	281.2	647.0	1739.6	3501.2	3582.5	838.5	340.5	384.5	281.2
85°	77.9	79.6	288.0	648.7	865.6	882.5	235.4	132.1	220.2	174.5
87.5°	8.5	27.1	108.4	108.4	76.2	74.5	25.4	28.8	62.7	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°
3350.4	0°	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4	3350.4
3365.7	2.5°	3357.2	3358.9	3336.9	3299.6	3259.0	3225.1	3182.7	3148.9	3125.1	3118.4
3396.2	5°	3380.9	3369.1	3306.4	3192.9	3057.4	2940.5	2810.1	2706.8	2639.0	2610.2
3428.3	7.5°	3416.5	3382.6	3245.4	3021.8	2762.7	2532.3	2298.5	2117.3	2002.1	1944.5
3458.8	10°	3447.0	3379.2	3143.8	2774.5	2378.2	2029.2	1714.2	1495.7	1373.7	1316.1
3494.4	12.5°	3475.8	3377.5	3011.7	2481.5	1944.5	1517.7	1224.7	1116.2	1082.4	1070.5
3552.0	15°	3530.0	3382.6	2845.7	2146.1	1512.6	1146.7	1040.0	1038.3	1045.1	1041.7
3640.1	17.5°	3604.5	3387.7	2657.6	1790.4	1167.1	1011.2	1006.1	1021.4	1031.6	1026.5
3750.2	20°	3701.1	3408.0	2457.8	1438.1	1002.8	977.3	989.2	1002.8	1011.2	1002.8
3897.5	22.5°	3836.6	3443.6	2239.3	1155.2	950.2	957.0	967.2	982.4	990.9	979.0
4085.6	25°	4002.6	3499.5	2024.1	1004.5	924.8	933.3	948.6	965.5	975.7	963.8
4322.7	27.5°	4217.7	3589.3	1826.0	970.6	899.4	904.5	926.5	951.9	965.5	950.2
4659.8	30°	4529.3	3736.6	1654.9	985.8	884.2	872.3	902.8	938.4	953.6	940.1
5118.8	32.5°	4942.6	3945.0	1549.9	1009.5	877.4	835.1	863.9	909.6	935.0	926.5
5718.4	35°	5484.7	4261.7	1509.2	1036.6	872.3	796.1	816.4	865.6	909.6	918.1
6473.9	37.5°	6141.9	4702.1	1521.1	1048.5	857.1	763.9	774.1	816.4	874.0	901.1
7324.2	40°	6888.9	5215.4	1588.8	1036.6	840.1	736.8	738.5	770.7	821.5	862.2
8238.9	42.5°	7659.6	5815.0	1714.2	992.6	824.9	713.1	708.0	730.0	763.9	792.7
9151.9	45°	8393.0	6431.5	1837.8	931.6	806.3	689.4	677.5	686.0	692.8	704.6
10041.1	47.5°	9033.3	6865.2	1802.3	875.7	780.9	662.3	642.0	638.6	618.3	616.6
10835.5	50°	9475.4	6960.0	1600.7	819.8	743.6	631.8	599.6	579.3	543.7	526.8
11430.1	52.5°	9616.0	6585.7	1307.6	763.9	682.6	591.2	545.4	513.2	469.2	454.0
11772.2	55°	9429.6	5852.2	1045.1	696.2	597.9	536.9	486.1	443.8	408.2	389.6
11809.5	57.5°	8974.0	4918.9	826.6	616.6	508.2	476.0	425.2	382.8	352.3	333.7
11396.2	60°	8218.5	3906.0	653.8	521.7	433.6	409.9	357.4	330.3	303.2	281.2
10329.1	62.5°	7071.8	2788.1	513.2	413.3	362.5	335.4	304.9	284.6	252.4	221.9
8409.9	65°	5518.6	1705.7	396.4	303.2	291.3	277.8	259.2	240.5	201.6	171.1
5486.4	67.5°	3480.9	808.0	282.9	228.7	230.4	223.6	215.1	199.9	171.1	144.0
2457.8	70°	1532.9	391.3	186.3	174.5	171.1	171.1	177.9	172.8	145.7	120.3
853.7	72.5°	521.7	210.0	138.9	132.1	123.7	122.0	149.1	144.0	116.9	93.2
425.2	75°	272.7	140.6	101.6	94.9	74.5	89.8	118.6	111.8	83.0	61.0
281.2	77.5°	177.9	99.9	69.4	61.0	42.3	59.3	88.1	77.9	49.1	30.5
184.6	80°	111.8	66.1	40.7	28.8	20.3	32.2	47.4	33.9	18.6	6.8
108.4	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>
3350.4
3130.2
2620.4
1953.0
1317.8
1067.1
1040.0
1024.8
1001.1
977.3
962.1
950.2
938.4
926.5
918.1
907.9
875.7
804.6
711.4
614.9
528.5
452.3
389.6
330.3
276.1
216.8
166.0
140.6
115.2
<i>88.1</i>
55.9
27.1
5.1
0.0
0.0
0.0
0.0

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