

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: P952514

Luminaire Tested: **GALN-SB6B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952514
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23635 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

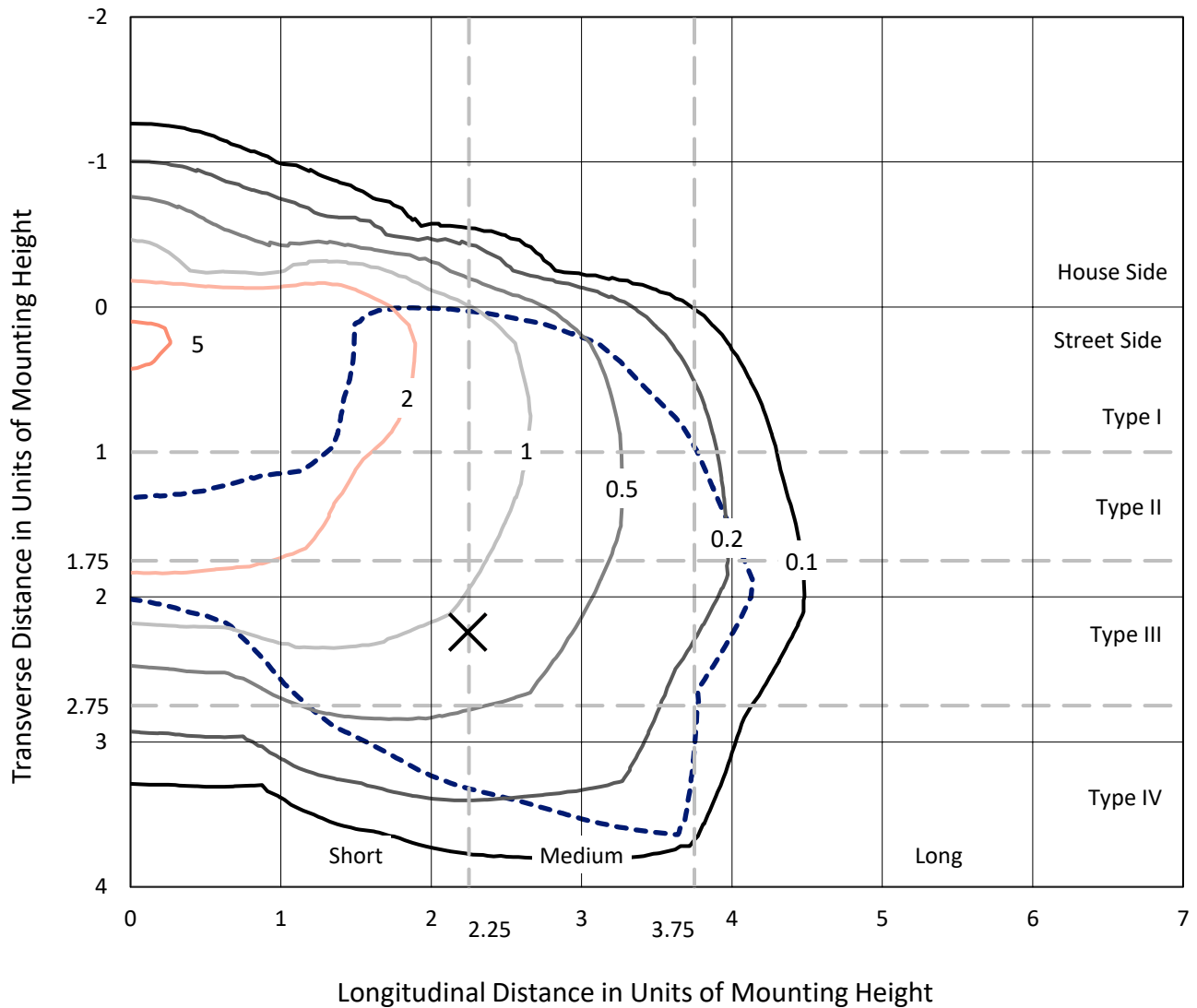
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

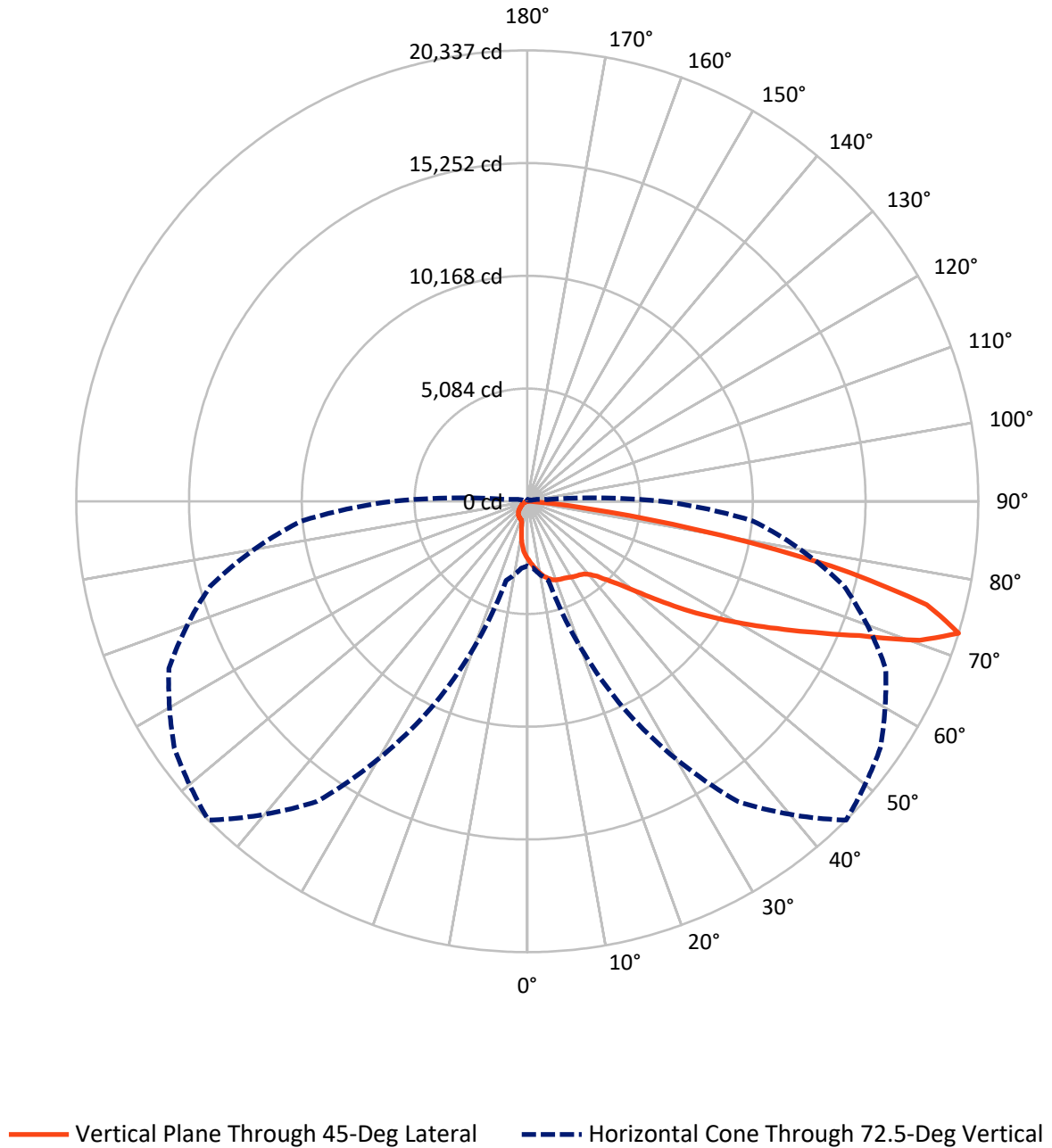
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2483.4	0.0	2483.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	21151.6	0.0	21151.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	23635.0	0.0	23635.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	1.0
10°-20°	713.0	3.0
20°-30°	1170.8	5.0
30°-40°	1660.5	7.0
40°-50°	2744.7	11.6
50°-60°	4930.5	20.9
60°-70°	6846.3	29.0
70°-80°	4966.1	21.0
80°-90°	359.0	1.5
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°	23635.0	100.0
0°-180°	23635.0	100.0

Coefficient of Utilization



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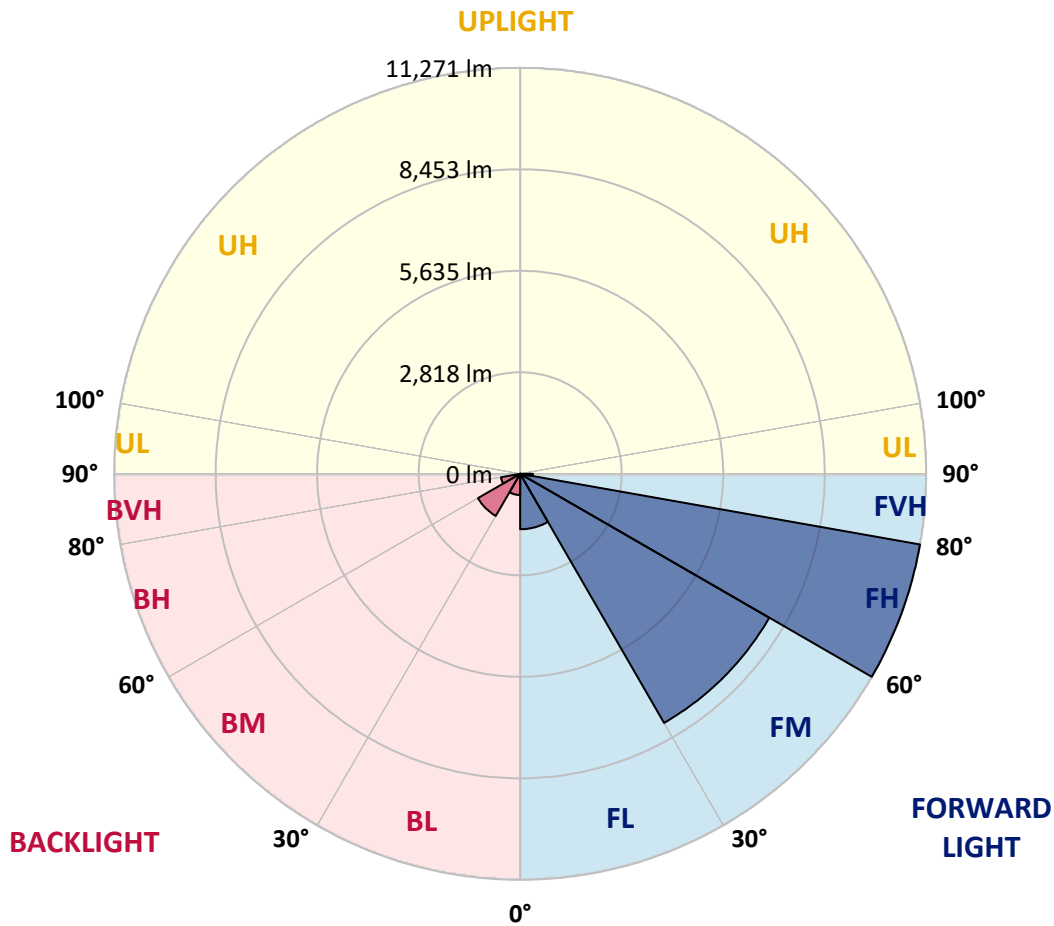
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.6	6.5			
FM (30°-60°)	7985.2	33.8			
FH (60°-80°)	11270.9	47.7			G4/12000
FVH (80°-90°)	356.0	1.5			G3/500
BL (0°-30°)	588.2	2.5	B2/1000		
BM (30°-60°)	1350.6	5.7	B2/2500		
BH (60°-80°)	541.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	35°	45°	46°	55°	65°	75°
0°	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3
2.5°	2828.0	2832.9	2829.6	2810.3	2778.0	2760.3	2750.6	2718.3	2697.4	2660.2
5°	3087.8	3107.1	3095.8	3057.1	2995.8	2952.2	2939.3	2873.2	2813.5	2744.1
7.5°	3363.6	3373.3	3352.3	3302.3	3220.0	3145.8	3134.5	3042.6	2947.4	2840.9
10°	3602.4	3613.7	3581.4	3508.8	3415.2	3323.3	3307.2	3205.5	3092.6	2961.9
12.5°	3802.4	3813.7	3771.8	3684.7	3581.4	3486.2	3470.1	3363.6	3239.4	3094.2
15°	3954.1	3975.0	3918.6	3825.0	3713.7	3618.5	3610.5	3505.6	3384.6	3223.3
17.5°	4042.8	4063.8	4010.5	3897.6	3802.4	3721.8	3712.1	3625.0	3512.0	3357.2
20°	4057.3	4076.7	4020.2	3921.8	3842.8	3778.2	3773.4	3710.5	3628.2	3479.8
22.5°	4013.8	4038.0	3986.3	3907.3	3852.4	3818.6	3812.1	3776.6	3729.8	3604.0
25°	3968.6	3988.0	3949.2	3879.9	3850.8	3847.6	3852.4	3846.0	3836.3	3729.8
27.5°	3965.4	3986.3	3942.8	3876.6	3860.5	3894.4	3899.2	3929.9	3937.9	3844.4
30°	3992.8	4007.3	3965.4	3896.0	3887.9	3965.4	3967.0	4021.8	4034.7	3941.2
32.5°	4052.5	4068.6	4026.7	3925.0	3913.7	4021.8	4026.7	4099.3	4120.2	4044.4
35°	4192.8	4212.2	4163.8	4005.7	3965.4	4075.1	4089.6	4175.1	4217.0	4154.1
37.5°	4542.9	4486.4	4420.3	4168.6	4083.1	4159.0	4183.2	4283.2	4357.4	4284.8
40°	5412.5	5235.0	5028.5	4446.1	4289.6	4338.0	4357.4	4457.4	4559.0	4488.1
42.5°	6717.6	6507.8	6175.5	5085.0	4601.0	4625.2	4639.7	4726.8	4870.4	4813.9
45°	7880.7	7804.9	7466.1	6175.5	5183.4	5064.0	5081.7	5126.9	5338.2	5317.3
47.5°	8774.5	8730.9	8469.6	7427.4	6167.5	5601.2	5651.2	5672.2	5977.1	6051.3
50°	9461.7	9445.6	9211.7	8540.5	7453.2	6393.3	6411.1	6365.9	6822.4	7006.3
52.5°	10110.2	10165.1	9992.5	9574.6	8826.1	7430.6	7427.4	7214.4	7830.7	8108.2
55°	10695.8	10715.2	10732.9	10629.7	10207.0	8611.5	8580.9	8232.4	9000.3	9287.5
57.5°	11246.0	11254.0	11412.1	11623.5	11644.4	9879.5	9823.1	9405.2	10278.0	10482.9
60°	11615.4	11652.5	11986.4	12573.7	12830.2	11187.9	11157.2	10731.3	11578.3	11673.5
62.5°	11083.0	11308.9	12151.0	13315.8	13949.8	12638.2	12623.7	12223.6	12946.3	12868.9
65°	8971.3	9353.6	10834.6	13817.5	15048.4	14257.9	14278.9	13853.0	14351.5	14099.8
67.5°	6275.5	6678.9	8430.8	13857.8	16276.1	16159.9	16280.9	15613.0	15843.7	15279.1
70°	4339.6	4547.7	5688.3	12989.9	17232.7	18779.8	18776.6	17774.8	17327.9	15816.3
72.5°	2918.4	3026.5	3694.3	10305.4	16529.3	20336.6	20243.0	19426.7	17828.0	14791.9
75°	1230.9	1310.0	1710.0	5791.6	13077.0	18605.6	18352.3	17168.2	15840.5	11647.7
77.5°	390.4	424.3	674.3	2073.0	7203.2	13985.3	13717.5	10721.7	10616.8	5843.2
80°	185.5	216.2	379.1	832.4	2834.5	7606.5	7569.4	4863.9	4567.1	1577.8
82.5°	80.7	95.2	209.7	445.3	1268.0	2713.5	2768.3	1655.2	1369.6	598.5
85°	25.8	33.9	96.8	204.9	535.6	674.3	666.3	393.6	551.7	325.9
87.5°	0.0	0.0	32.3	46.8	54.9	38.7	43.6	33.9	153.3	90.3
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°
2589.3	0°	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3	2589.3
2621.5	2.5°	2602.2	2576.4	2531.2	2489.2	2452.1	2415.0	2392.4	2360.2	2357.0	2357.0
2663.5	5°	2619.9	2578.0	2497.3	2411.8	2313.4	2219.8	2126.3	2035.9	2006.9	1985.9
2731.2	7.5°	2671.5	2605.4	2478.0	2315.0	2127.9	1923.0	1779.4	1624.5	1564.9	1532.6
2821.6	10°	2745.7	2655.4	2461.8	2176.3	1873.0	1593.9	1389.0	1221.2	1156.7	1129.3
2920.0	12.5°	2828.0	2716.7	2432.8	2003.7	1593.9	1259.9	1059.9	982.5	972.8	972.8
3037.7	15°	2926.4	2790.9	2382.8	1800.4	1301.9	997.0	926.0	929.2	938.9	945.4
3152.3	17.5°	3028.1	2870.0	2303.7	1572.9	1043.8	897.0	898.6	903.4	911.5	917.9
3276.5	20°	3137.8	2949.0	2198.9	1330.9	895.4	867.9	872.8	877.6	884.1	887.3
3392.7	22.5°	3255.5	3023.2	2074.6	1093.8	845.3	843.7	845.3	850.2	858.2	858.2
3528.2	25°	3381.4	3105.5	1932.7	921.2	819.5	819.5	822.8	826.0	832.4	832.4
3658.8	27.5°	3510.4	3181.3	1782.6	830.8	796.9	795.3	795.3	800.2	803.4	805.0
3787.9	30°	3652.4	3270.1	1632.6	811.5	779.2	771.1	766.3	769.5	772.7	774.4
3923.4	32.5°	3797.6	3355.6	1498.7	819.5	761.5	746.9	730.8	727.6	727.6	734.0
4063.8	35°	3958.9	3449.1	1395.5	847.0	751.8	711.4	685.6	671.1	672.7	682.4
4231.6	37.5°	4152.5	3562.1	1319.6	871.2	745.3	671.1	629.2	611.4	600.1	611.4
4462.2	40°	4405.8	3728.2	1264.8	890.5	737.3	624.3	567.9	538.8	517.9	524.3
4820.4	42.5°	4778.4	3989.6	1243.8	892.1	719.5	569.5	504.9	466.2	435.6	437.2
5359.2	45°	5301.1	4402.6	1351.9	871.2	680.8	509.8	438.8	387.2	367.8	363.0
6164.2	47.5°	6017.4	5004.3	1602.0	827.6	624.3	451.7	374.3	330.7	316.2	308.1
7220.9	50°	6977.3	5777.0	1879.4	779.2	567.9	396.9	321.0	293.6	283.9	275.9
8474.4	52.5°	8090.4	6561.1	2106.9	730.8	511.4	348.5	287.2	271.0	263.0	256.5
9684.3	55°	9111.6	7101.5	2094.0	679.2	456.5	309.7	263.0	253.3	243.6	237.1
10726.5	57.5°	9747.3	7177.3	1726.2	622.7	393.6	279.1	240.4	233.9	222.6	214.6
11628.3	60°	10039.2	6745.0	1209.9	548.5	330.7	250.1	216.2	212.9	198.4	187.1
12481.7	62.5°	10092.5	5941.6	806.6	456.5	275.9	222.6	192.0	187.1	167.8	148.4
13175.4	65°	9876.3	4793.0	558.2	356.5	235.5	193.6	164.6	154.9	133.9	114.5
13340.0	67.5°	9192.3	3365.2	388.8	256.5	200.0	153.3	130.7	127.4	111.3	95.2
12501.1	70°	7938.8	1918.2	259.7	192.0	158.1	104.9	103.2	106.5	90.3	77.4
10213.5	72.5°	6086.8	877.6	161.3	140.4	108.1	71.0	82.3	83.9	69.4	58.1
6372.3	75°	3583.0	375.9	101.6	90.3	54.9	46.8	59.7	61.3	46.8	37.1
2329.5	77.5°	1219.6	142.0	64.5	53.2	27.4	25.8	38.7	38.7	25.8	14.5
467.8	80°	277.5	53.2	32.3	21.0	12.9	11.3	12.9	11.3	6.5	1.6
143.6	82.5°	79.0	21.0	12.9	8.1	4.8	4.8	1.6	0.0	0.0	0.0
50.0	85°	22.6	9.7	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
17.7	87.5°	9.7	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

180°
2589.3
2365.0
1995.6
1537.4
1129.3
972.8
945.4
917.9
888.9
861.5
834.0
806.6
777.6
738.9
687.2
608.2
521.1
430.7
356.5
303.3
274.3
254.9
233.9
212.9
183.9
138.7
108.1
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71.0
51.6
32.3
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