

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: P955517

Luminaire Tested: **GALN-SB8B-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955517
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-SB8B-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 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: 25416 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

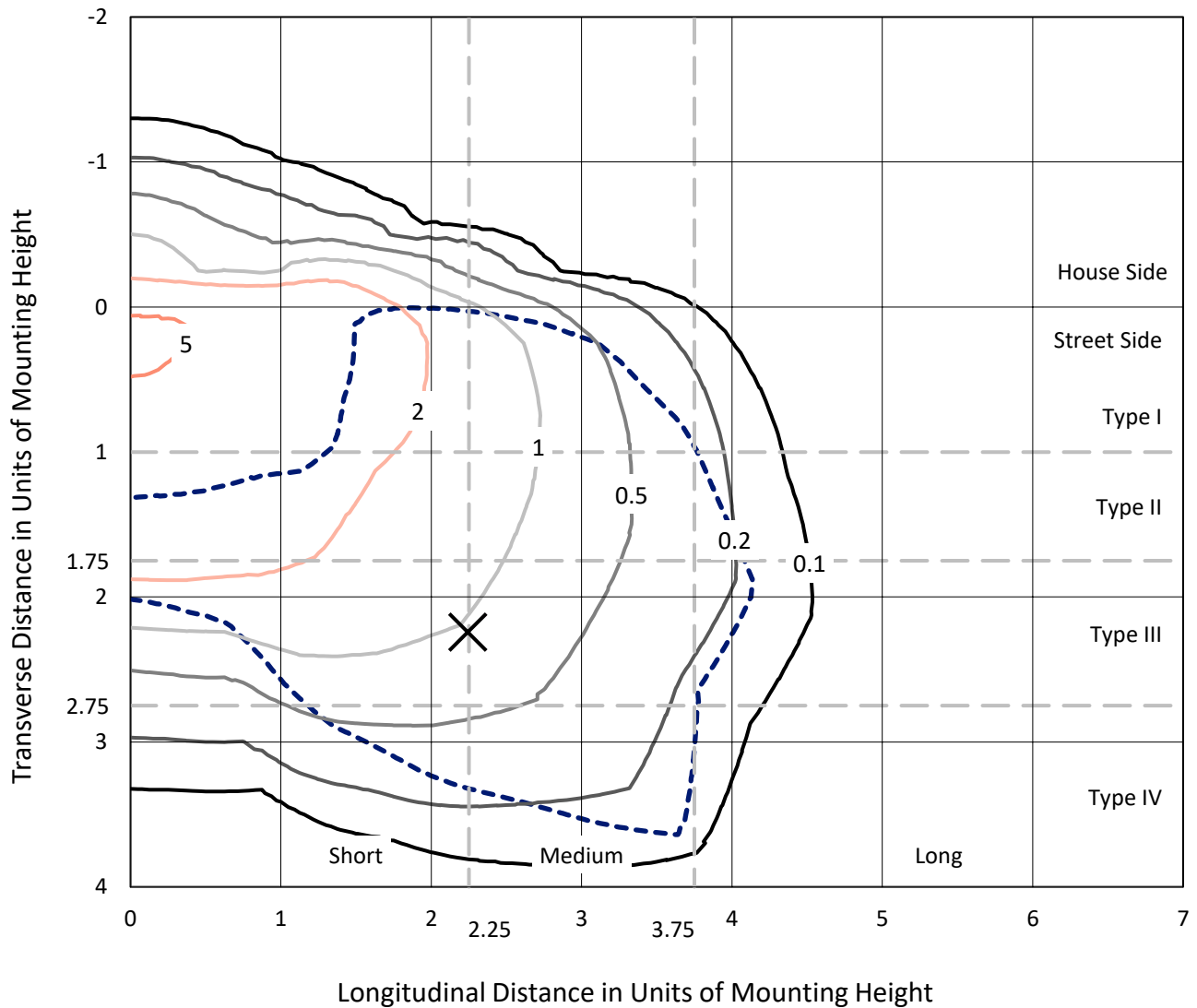
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

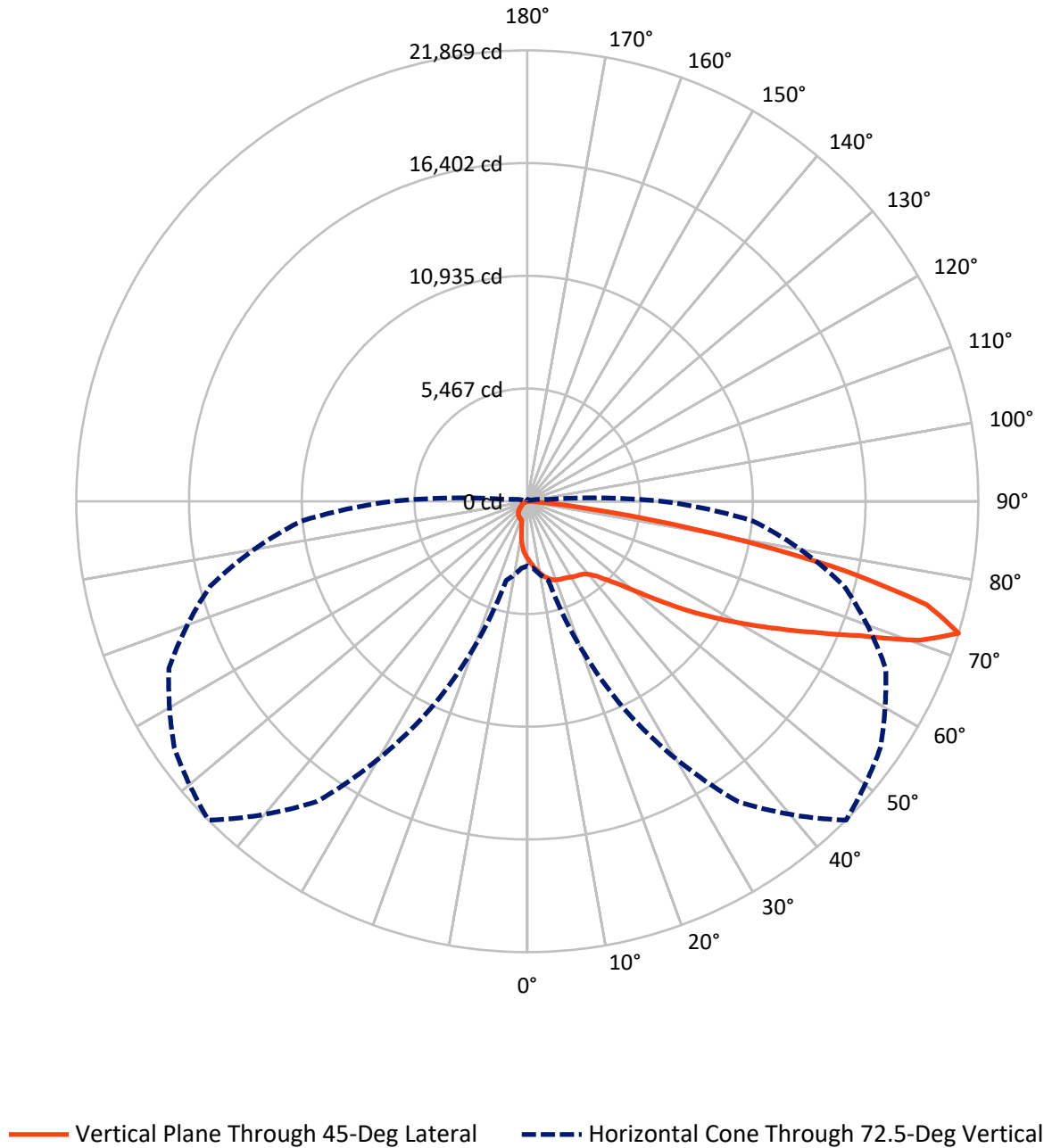
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2670.5	0.0	2670.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	22745.5	0.0	22745.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	25416.0	0.0	25416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	1.0
10°-20°	766.7	3.0
20°-30°	1259.1	5.0
30°-40°	1785.7	7.0
40°-50°	2951.5	11.6
50°-60°	5302.1	20.9
60°-70°	7362.2	29.0
70°-80°	5340.3	21.0
80°-90°	386.1	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°	25416.0	100.0
0°-180°	25416.0	100.0

Coefficient of Utilization



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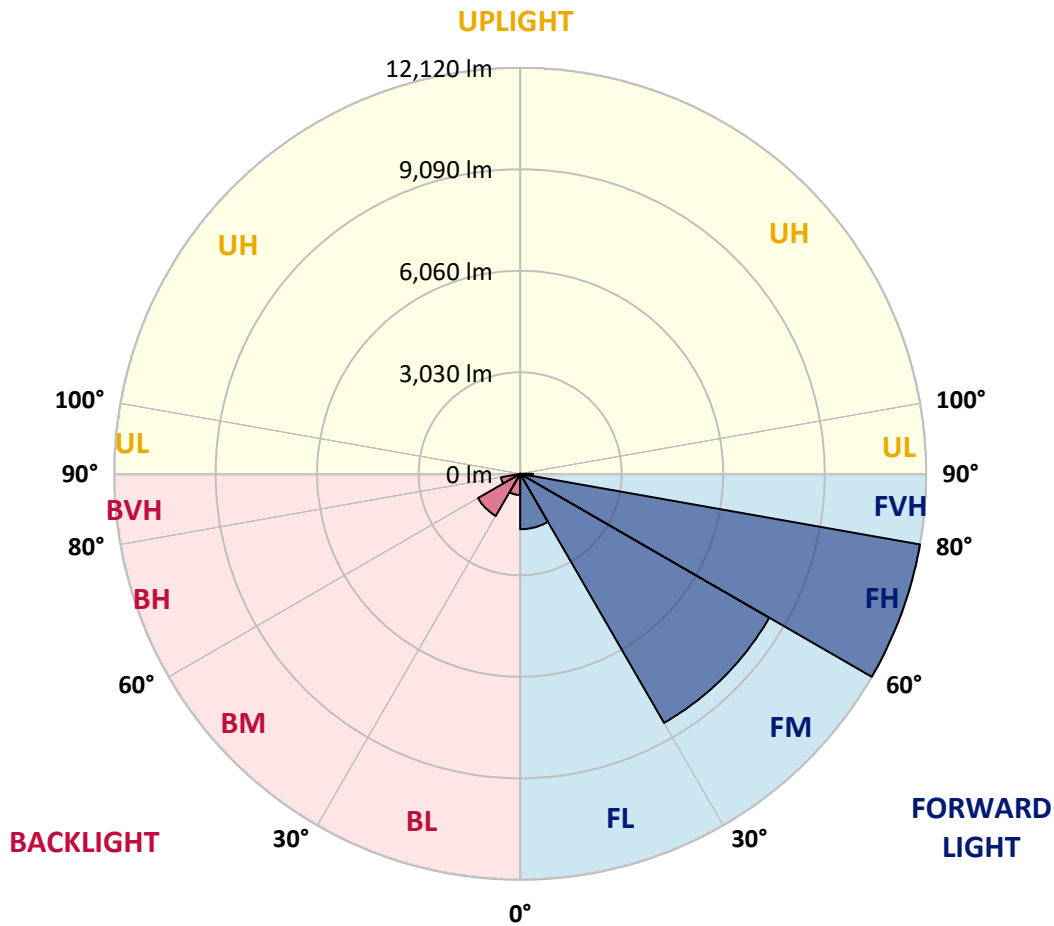
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.6	6.5			
FM (30°-60°)	8586.9	33.8			
FH (60°-80°)	12120.2	47.7			G5
FVH (80°-90°)	382.8	1.5			G3/500
BL (0°-30°)	632.5	2.5	B2/1000		
BM (30°-60°)	1452.4	5.7	B2/2500		
BH (60°-80°)	582.3	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.2	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4
2.5°	3041.1	3046.3	3042.9	3022.0	2987.4	2968.3	2957.9	2923.2	2900.6	2860.7
5°	3320.4	3341.3	3329.1	3287.5	3221.6	3174.7	3160.8	3089.7	3025.5	2950.9
7.5°	3617.1	3627.5	3604.9	3551.2	3462.7	3382.9	3370.7	3271.9	3169.5	3055.0
10°	3873.8	3886.0	3851.3	3773.2	3672.6	3573.7	3556.4	3447.1	3325.6	3185.1
12.5°	4089.0	4101.1	4056.0	3962.3	3851.3	3748.9	3731.6	3617.1	3483.5	3327.4
15°	4252.0	4274.6	4213.9	4113.2	3993.5	3891.2	3882.5	3769.8	3639.6	3466.2
17.5°	4347.4	4370.0	4312.7	4191.3	4089.0	4002.2	3991.8	3898.1	3776.7	3610.1
20°	4363.1	4383.9	4323.2	4217.3	4132.3	4062.9	4057.7	3990.1	3901.6	3742.0
22.5°	4316.2	4342.2	4286.7	4201.7	4142.7	4106.3	4099.4	4061.2	4010.9	3875.6
25°	4267.6	4288.5	4246.8	4172.2	4141.0	4137.5	4142.7	4135.8	4125.4	4010.9
27.5°	4264.2	4286.7	4239.9	4168.8	4151.4	4187.8	4193.0	4226.0	4234.7	4134.1
30°	4293.7	4309.3	4264.2	4189.6	4180.9	4264.2	4265.9	4324.9	4338.8	4238.2
32.5°	4357.9	4375.2	4330.1	4220.8	4208.7	4324.9	4330.1	4408.2	4430.7	4349.2
35°	4508.8	4529.6	4477.6	4307.5	4264.2	4382.1	4397.8	4489.7	4534.8	4467.1
37.5°	4885.2	4824.5	4753.4	4482.8	4390.8	4472.4	4498.4	4605.9	4685.7	4607.7
40°	5820.3	5629.5	5407.4	4781.1	4612.9	4664.9	4685.7	4793.3	4902.6	4826.3
42.5°	7223.8	6998.2	6640.9	5468.1	4947.7	4973.7	4989.3	5083.0	5237.4	5176.7
45°	8474.6	8393.0	8028.7	6640.9	5574.0	5445.6	5464.7	5513.2	5740.5	5717.9
47.5°	9435.7	9388.8	9107.8	7987.1	6632.2	6023.3	6077.1	6099.6	6427.5	6507.3
50°	10174.7	10157.3	9905.8	9184.1	8014.8	6875.1	6894.2	6845.6	7336.5	7534.3
52.5°	10872.1	10931.1	10745.4	10296.1	9491.2	7990.6	7987.1	7758.1	8420.8	8719.2
55°	11501.8	11522.6	11541.7	11430.7	10976.2	9260.4	9227.5	8852.8	9678.5	9987.3
57.5°	12093.4	12102.1	12272.1	12499.3	12521.9	10624.0	10563.3	10114.0	11052.5	11272.8
60°	12490.7	12530.6	12889.7	13521.1	13797.0	12030.9	11998.0	11540.0	12450.8	12553.1
62.5°	11918.2	12161.0	13066.6	14319.2	15000.9	13590.5	13574.9	13144.7	13921.9	13838.6
65°	9647.3	10058.5	11651.0	14858.7	16182.3	15332.3	15354.8	14896.8	15432.9	15162.3
67.5°	6748.4	7182.1	9066.1	14902.1	17502.5	17377.6	17507.7	16789.5	17037.6	16430.4
70°	4666.7	4890.4	6117.0	13968.7	18531.3	20195.0	20191.5	19114.2	18633.6	17008.1
72.5°	3138.3	3254.5	3972.7	11082.0	17774.9	21869.1	21768.4	20890.6	19171.4	15906.5
75°	1323.7	1408.7	1838.9	6228.0	14062.4	20007.6	19735.2	18461.9	17034.1	12525.4
77.5°	419.8	456.3	725.2	2229.2	7745.9	15039.1	14751.1	11529.6	11416.8	6283.5
80°	199.5	232.5	407.7	895.2	3048.1	8179.6	8139.7	5230.5	4911.3	1696.6
82.5°	86.7	102.4	225.5	478.8	1363.6	2918.0	2976.9	1779.9	1472.9	643.6
85°	27.8	36.4	104.1	220.3	576.0	725.2	716.5	423.3	593.3	350.4
87.5°	0.0	0.0	34.7	50.3	59.0	41.6	46.8	36.4	164.8	97.1
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°
2784.4	0°	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4	2784.4
2819.1	2.5°	2798.3	2770.5	2721.9	2676.8	2636.9	2597.0	2572.7	2538.0	2534.6	2534.6
2864.2	5°	2817.3	2772.2	2685.5	2593.5	2487.7	2387.1	2286.5	2189.3	2158.1	2135.6
2937.0	7.5°	2872.9	2801.7	2664.7	2489.5	2288.2	2067.9	1913.5	1747.0	1682.8	1648.1
3034.2	10°	2952.7	2855.5	2647.3	2340.3	2014.1	1714.0	1493.7	1313.3	1243.9	1214.4
3140.0	12.5°	3041.1	2921.4	2616.1	2154.6	1714.0	1354.9	1139.8	1056.5	1046.1	1046.1
3266.7	15°	3147.0	3001.2	2562.3	1936.1	1400.0	1072.1	995.8	999.3	1009.7	1016.6
3389.8	17.5°	3256.2	3086.2	2477.3	1691.4	1122.4	964.6	966.3	971.5	980.2	987.1
3523.4	20°	3374.2	3171.2	2364.6	1431.2	962.8	933.3	938.5	943.7	950.7	954.1
3648.3	22.5°	3500.9	3251.0	2231.0	1176.2	909.0	907.3	909.0	914.2	922.9	922.9
3794.0	25°	3636.2	3339.5	2078.3	990.6	881.3	881.3	884.8	888.2	895.2	895.2
3934.6	27.5°	3775.0	3421.1	1917.0	893.4	857.0	855.3	855.3	860.5	863.9	865.7
4073.3	30°	3927.6	3516.5	1755.6	872.6	837.9	829.2	824.0	827.5	831.0	832.7
4219.1	32.5°	4083.8	3608.4	1611.6	881.3	818.8	803.2	785.9	782.4	782.4	789.3
4370.0	35°	4257.2	3709.0	1500.6	910.8	808.4	765.1	737.3	721.7	723.4	733.8
4550.4	37.5°	4465.4	3830.5	1419.1	936.8	801.5	721.7	676.6	657.5	645.4	657.5
4798.5	40°	4737.8	4009.2	1360.1	957.6	792.8	671.4	610.7	579.4	556.9	563.8
5183.6	42.5°	5138.5	4290.2	1337.5	959.4	773.7	612.4	543.0	501.4	468.4	470.1
5763.1	45°	5700.6	4734.3	1453.8	936.8	732.1	548.2	471.9	416.4	395.5	390.3
6628.7	47.5°	6470.9	5381.4	1722.7	890.0	671.4	485.7	402.5	355.6	340.0	331.3
7765.0	50°	7503.1	6212.4	2021.1	837.9	610.7	426.8	345.2	315.7	305.3	296.7
9113.0	52.5°	8700.1	7055.5	2265.7	785.9	549.9	374.7	308.8	291.4	282.8	275.8
10414.1	55°	9798.2	7636.7	2251.8	730.4	491.0	333.1	282.8	272.4	262.0	255.0
11534.8	57.5°	10481.7	7718.2	1856.3	669.6	423.3	300.1	258.5	251.5	239.4	230.7
12504.5	60°	10795.7	7253.3	1301.1	589.8	355.6	268.9	232.5	229.0	213.4	201.2
13422.3	62.5°	10853.0	6389.3	867.4	491.0	296.7	239.4	206.4	201.2	180.4	159.6
14168.2	65°	10620.5	5154.1	600.2	383.4	253.3	208.2	177.0	166.5	144.0	123.2
14345.2	67.5°	9885.0	3618.8	418.1	275.8	215.1	164.8	140.5	137.1	119.7	102.4
13443.1	70°	8537.0	2062.7	279.3	206.4	170.0	112.8	111.0	114.5	97.1	83.3
10983.1	72.5°	6545.5	943.7	173.5	150.9	116.2	76.3	88.5	90.2	74.6	62.5
6852.5	75°	3853.0	404.2	109.3	97.1	59.0	50.3	64.2	65.9	50.3	39.9
2505.1	77.5°	1311.5	152.7	69.4	57.2	29.5	27.8	41.6	41.6	27.8	15.6
503.1	80°	298.4	57.2	34.7	22.6	13.9	12.1	13.9	12.1	6.9	1.7
154.4	82.5°	85.0	22.6	13.9	8.7	5.2	5.2	1.7	0.0	0.0	0.0
53.8	85°	24.3	10.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
19.1	87.5°	10.4	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>
2784.4
2543.2
2146.0
1653.3
1214.4
1046.1
1016.6
987.1
955.9
926.4
896.9
867.4
836.2
794.5
739.0
654.0
560.3
463.2
383.4
326.1
294.9
274.1
251.5
229.0
197.8
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