

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: P944776

Luminaire Tested: **GALN-SB9D-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69532 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

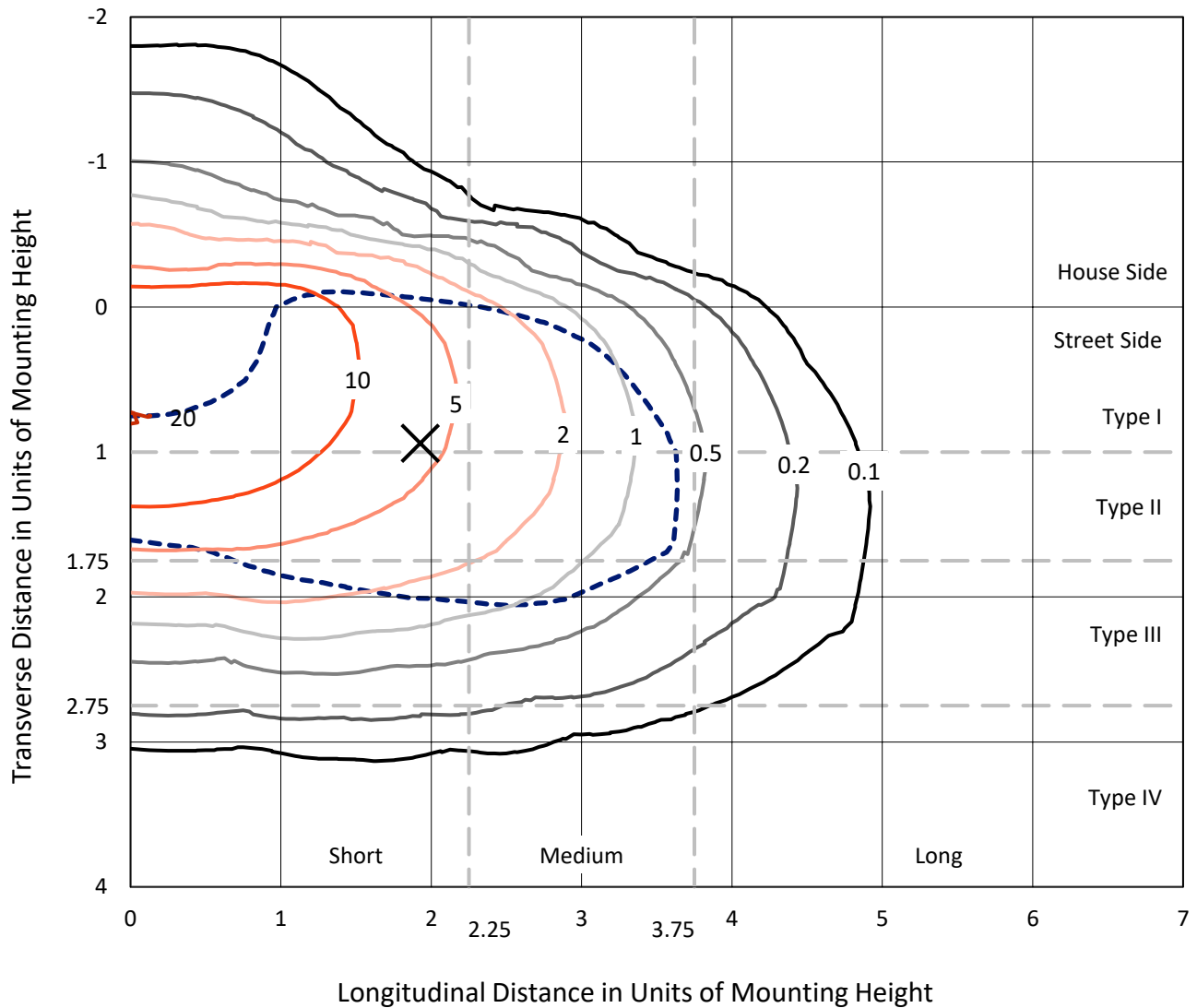
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944776
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Iso-Footcandle Lines of Horizontal Illumination

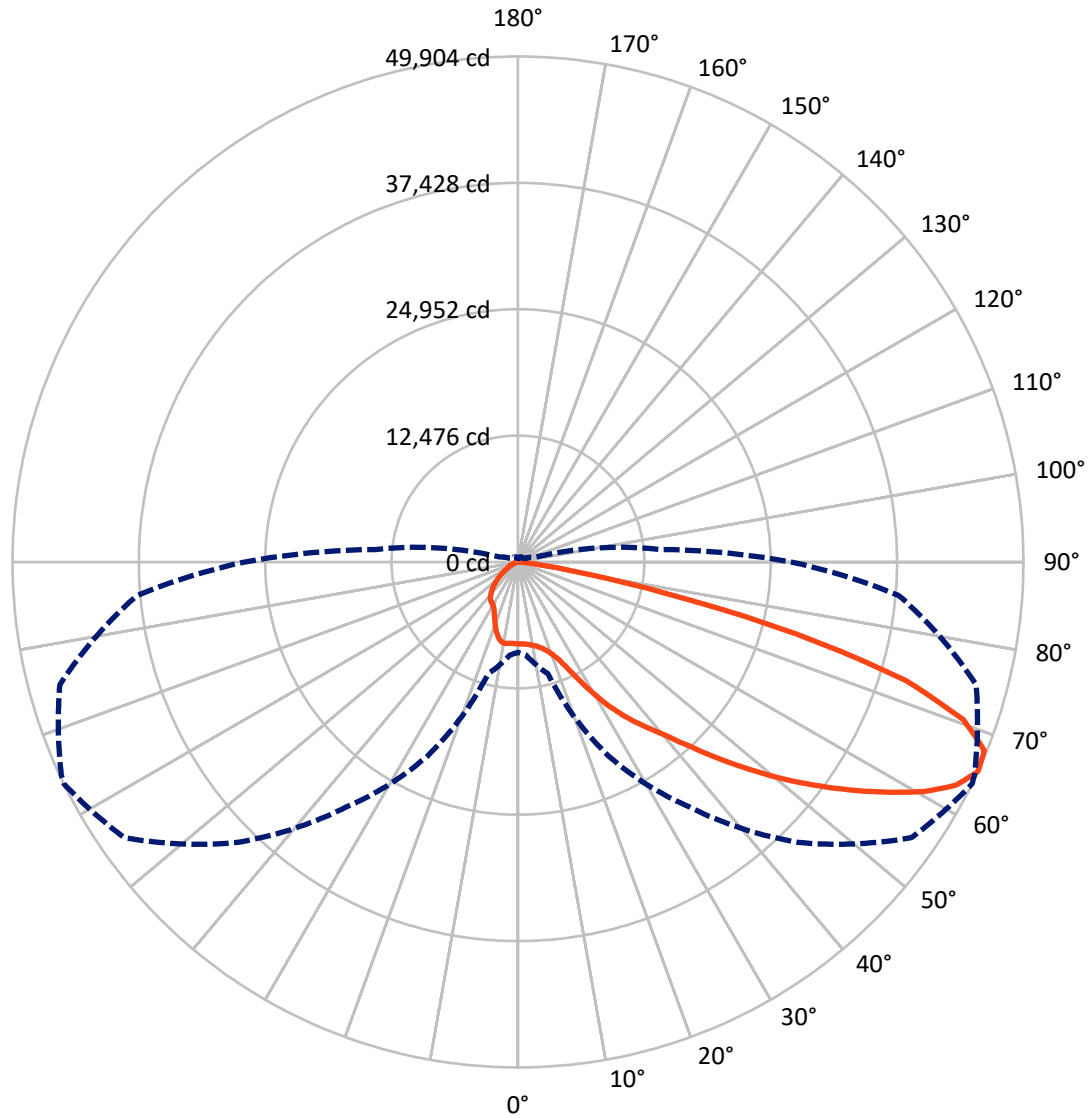
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

REPORT NUMBER: P944776
CATALOG NUMBER: GALN-SB9D-850-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P944776

CATALOG NUMBER: GALN-SB9D-850-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9298.5	0.0	9298.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	60233.5	0.0	60233.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	69532.0	0.0	69532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.1	1.1
10°-20°	2023.7	2.9
20°-30°	3834.8	5.5
30°-40°	7759.8	11.2
40°-50°	13218.9	19.0
50°-60°	17976.7	25.9
60°-70°	16881.0	24.3
70°-80°	6763.3	9.7
80°-90°	327.7	0.5
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°	69532.0	100.0
0°-180°	69532.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944776

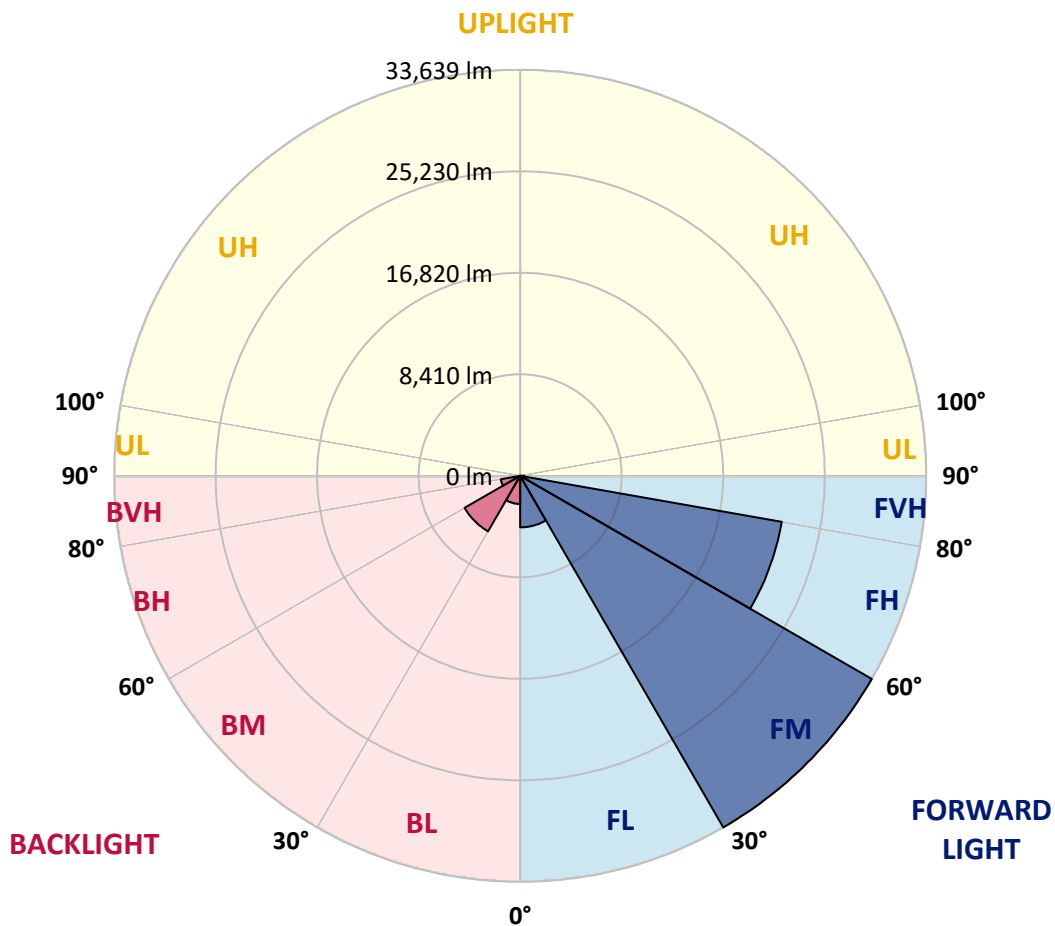
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4270.1	6.1			
FM (30°-60°)	33639.5	48.4			
FH (60°-80°)	22012.2	31.7			G5
FVH (80°-90°)	311.7	0.4			G3/500
BL (0°-30°)	2334.6	3.4	B3/2500		
BM (30°-60°)	5315.9	7.6	B4/8500		
BH (60°-80°)	1632.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	16.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



REPORT NUMBER: P944776

CATALOG NUMBER: GALN-SB9D-850-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3
2.5°	8059.3	8115.3	8101.3	8087.3	8082.6	8092.0	8096.6	8092.0	8092.0	8092.0
5°	7905.5	7952.1	7952.1	7984.7	8031.4	8087.3	8129.2	8138.6	8147.9	8161.9
7.5°	7611.8	7649.1	7677.1	7784.3	7900.8	8050.0	8175.9	8241.1	8250.4	8301.7
10°	7411.4	7458.0	7504.6	7616.5	7784.3	8008.1	8222.5	8381.0	8404.3	8525.5
12.5°	7402.1	7448.7	7509.3	7630.5	7826.3	8064.0	8325.0	8553.4	8595.4	8772.5
15°	7500.0	7555.9	7611.8	7761.0	7970.8	8259.8	8539.4	8823.8	8865.7	9117.4
17.5°	7700.4	7775.0	7816.9	7966.1	8189.8	8511.5	8879.7	9206.0	9243.3	9536.9
20°	8096.6	8185.2	8199.2	8320.4	8539.4	8884.4	9322.5	9728.1	9774.7	10110.3
22.5°	8917.0	9042.9	8931.0	8991.6	9187.4	9532.3	10007.7	10520.5	10585.7	10968.0
25°	10362.0	10539.1	10250.1	10147.6	10231.5	10590.4	11187.0	11835.0	11909.5	12217.2
27.5°	13200.7	12972.3	12534.1	12105.3	11853.6	12058.7	12729.9	13531.7	13624.9	13923.2
30°	16319.1	16118.7	15526.7	14575.8	13979.1	13946.5	14566.5	15461.4	15568.6	15853.0
32.5°	19442.1	19251.0	18607.8	17437.8	16403.0	15890.3	16319.1	17311.9	17367.9	17549.7
35°	22513.9	22318.1	21674.9	20476.9	19204.4	18039.1	17955.2	19073.9	19092.5	19283.7
37.5°	25604.3	25441.2	24756.0	23581.3	22327.5	20719.3	19940.9	20742.6	20765.9	20952.4
40°	27809.1	27879.0	27408.2	26499.3	25422.5	23665.2	22169.0	22518.6	22378.7	22691.0
42.5°	29701.6	29841.4	29431.2	28974.4	28349.8	26802.3	24928.4	24867.8	24644.1	24811.9
45°	31337.7	31454.2	31086.0	30978.8	30964.8	29878.7	27944.3	27580.7	27268.4	27235.8
47.5°	31939.0	32162.7	32321.2	32680.1	33379.3	32922.5	31062.7	30498.7	30149.1	29892.7
50°	32167.4	32405.1	32945.8	33989.9	35644.7	35840.5	34167.1	33533.1	33104.3	32638.2
52.5°	31859.7	32283.9	33011.1	34768.4	37168.9	38180.4	37145.6	36590.9	36101.5	35341.7
55°	30046.5	30470.7	31957.6	34759.0	37928.7	39821.2	39961.0	39714.0	39163.9	37966.0
57.5°	26224.3	26853.5	29207.5	33575.1	37914.7	41233.5	42720.5	42897.6	42282.3	40567.0
60°	20929.1	21782.1	24653.4	30950.8	36744.7	41998.0	45139.7	46025.3	45372.7	43130.7
62.5°	14603.7	15591.9	18309.4	26839.6	34069.2	41448.0	46906.3	48542.4	48048.3	45424.0
65°	8907.7	9224.6	11415.4	21120.2	29519.8	39145.3	47451.7	49903.5	49740.4	46827.1
67.5°	5933.8	6199.5	6828.8	14482.5	22914.8	34544.6	46146.5	49665.8	49712.4	46598.7
70°	3575.2	3803.6	4213.8	8422.9	14850.8	27343.0	42105.2	46635.9	46906.3	43545.5
72.5°	1473.0	1626.8	1999.7	3817.6	7691.1	17353.9	33528.5	40040.3	40669.5	36614.2
75°	834.4	913.6	1174.6	1915.8	3337.5	8087.3	20309.1	28424.4	29352.0	25236.1
77.5°	554.7	592.0	759.8	1239.9	1878.5	2759.5	8679.3	14808.8	16580.1	13783.4
80°	372.9	405.5	522.1	829.7	1221.3	1184.0	2764.1	5486.3	6749.5	4735.8
82.5°	251.7	256.4	372.9	545.4	773.8	573.3	815.7	1706.0	2144.2	1370.4
85°	144.5	139.8	275.0	317.0	344.9	237.7	247.0	512.7	671.2	578.0
87.5°	18.6	28.0	107.2	83.9	46.6	51.3	51.3	88.6	130.5	139.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944776
 CATALOG NUMBER: GALN-SB9D-850-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8087.3	0°	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3	8087.3
8096.6	2.5°	8096.6	8092.0	8078.0	8064.0	8031.4	8012.7	8022.0	8012.7	8008.1	8012.7
8157.2	5°	8157.2	8143.2	8105.9	8059.3	7994.1	7914.8	7863.6	7789.0	7719.1	7677.1
8320.4	7.5°	8320.4	8306.4	8255.1	8124.6	7914.8	7583.9	7280.9	7015.2	6814.8	6698.2
8581.4	10°	8581.4	8558.1	8478.8	8189.8	7639.8	6917.3	6316.0	5817.3	5491.0	5337.1
8889.0	12.5°	8889.0	8861.1	8721.2	8129.2	7117.8	5989.7	5160.0	4605.3	4302.3	4167.2
9243.3	15°	9252.6	9215.3	8940.3	7840.2	6358.0	4964.2	4204.5	3789.6	3593.8	3472.6
9695.4	17.5°	9704.8	9639.5	9103.4	7406.7	5532.9	4181.2	3617.1	3304.8	3132.4	3015.8
10287.4	20°	10292.1	10184.9	9234.0	6889.3	4773.1	3687.1	3220.9	2959.9	2829.4	2726.8
11126.4	22.5°	11112.5	10958.6	9392.4	6330.0	4237.1	3346.8	2927.3	2736.2	2629.0	2512.4
12296.4	25°	12128.6	11946.8	9588.2	5812.6	3868.8	3053.1	2712.9	2554.4	2428.5	2293.3
13830.0	27.5°	13550.3	13224.0	9821.3	5388.4	3551.9	2801.4	2517.1	2340.0	2195.5	2083.6
15568.6	30°	15135.1	14599.1	10026.4	5132.1	3262.9	2568.4	2260.7	2083.6	1948.4	1869.2
17130.1	32.5°	16636.1	15908.9	10161.6	5020.2	3001.9	2302.7	1981.0	1789.9	1687.4	1664.1
18659.0	35°	18053.1	17092.9	10147.6	4913.0	2768.8	2037.0	1706.0	1510.2	1431.0	1445.0
20304.5	37.5°	19684.5	18356.1	10049.7	4745.2	2577.7	1794.6	1468.3	1295.8	1225.9	1230.6
22304.1	40°	21581.7	19815.0	9989.1	4428.2	2367.9	1570.8	1272.5	1132.7	1081.4	1062.8
24411.0	42.5°	23604.6	21227.4	9998.4	4069.3	2106.9	1370.4	1137.3	1020.8	974.2	960.2
26755.7	45°	25637.0	22574.5	10012.4	3696.4	1831.9	1216.6	1039.5	941.6	913.6	895.0
29132.9	47.5°	27548.1	23721.2	9751.4	3295.5	1561.5	1100.1	960.2	895.0	871.7	848.4
31519.5	50°	29328.7	24485.6	9122.1	2829.4	1347.1	1006.8	899.6	853.0	829.7	806.4
33682.3	52.5°	30713.1	24606.8	8082.6	2349.3	1197.9	936.9	862.3	820.4	792.4	769.1
35430.3	55°	31328.4	23847.0	6605.0	1901.8	1081.4	876.3	825.0	783.1	750.5	727.2
36805.3	57.5°	31169.9	22248.2	5150.7	1528.9	969.5	815.7	778.4	750.5	713.2	675.9
37919.4	60°	30391.4	20108.7	3882.8	1272.5	867.0	750.5	727.2	703.9	652.6	596.6
38348.2	62.5°	29044.3	17419.1	2768.8	1053.4	755.1	675.9	666.6	647.9	573.3	470.8
37714.3	65°	26984.1	14151.6	1864.5	876.3	647.9	592.0	596.6	564.0	466.1	349.6
35393.0	67.5°	23972.9	10348.0	1193.3	717.8	540.7	494.1	498.8	480.1	396.2	298.3
30992.7	70°	20136.7	6852.1	778.4	545.4	433.5	382.2	410.2	414.9	335.6	242.4
23786.4	72.5°	14762.2	4046.0	545.4	405.5	317.0	265.7	335.6	344.9	270.4	181.8
14310.1	75°	8413.6	1920.4	410.2	293.7	195.8	186.5	261.0	261.0	186.5	121.2
6194.8	77.5°	3533.2	801.7	289.0	191.1	111.9	107.2	177.1	163.1	93.2	55.9
1510.2	80°	1020.8	358.9	153.8	93.2	46.6	42.0	69.9	51.3	23.3	9.3
573.3	82.5°	400.9	158.5	60.6	37.3	18.6	18.6	9.3	0.0	0.0	0.0
326.3	85°	237.7	65.3	28.0	14.0	4.7	0.0	0.0	0.0	0.0	0.0
69.9	87.5°	60.6	14.0	9.3	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>
8087.3
8031.4
7686.4
6702.9
5323.2
4153.2
3477.3
3006.5
2708.2
2493.8
2279.4
2060.3
1855.2
1678.1
1445.0
1249.2
1058.1
955.6
895.0
848.4
806.4
764.4
722.5
671.2
587.3
461.5
340.3
284.3
233.1
172.5
111.9
55.9
9.3
0.0
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