

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: P943856

Luminaire Tested: **GALN-SB8C-740-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943856
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-SB8C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 4000K, 615mA 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: 50247 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

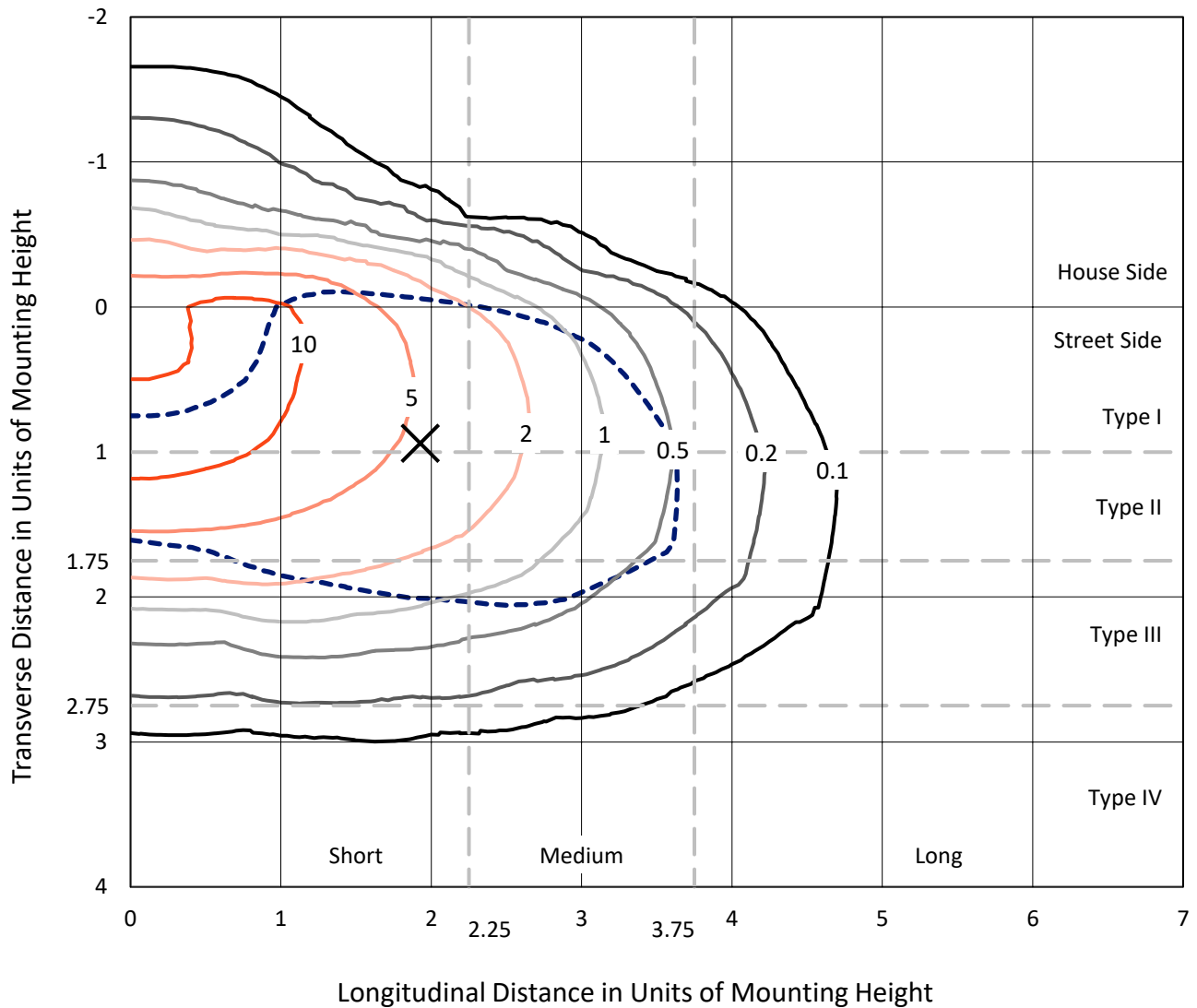
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943856
 CATALOG NUMBER: GALN-SB8C-740-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

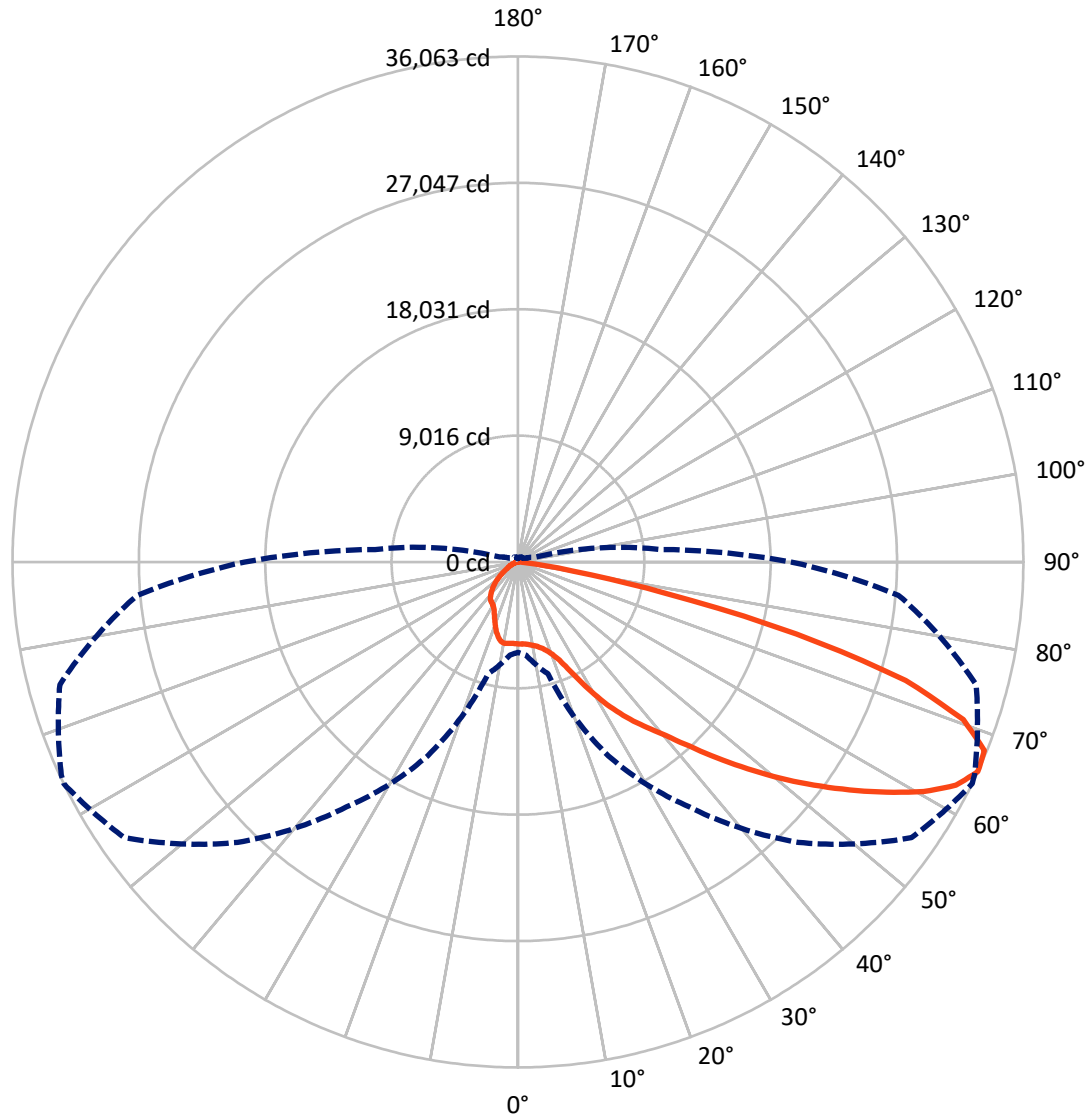
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Short - N/A

REPORT NUMBER: P943856
CATALOG NUMBER: GALN-SB8C-740-U-T3-HSS

Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6719.6	0.0	6719.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	43527.5	0.0	43527.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	50247.0	0.0	50247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.2	1.1
10°-20°	1462.4	2.9
20°-30°	2771.2	5.5
30°-40°	5607.6	11.2
40°-50°	9552.6	19.0
50°-60°	12990.8	25.9
60°-70°	12199.0	24.3
70°-80°	4887.4	9.7
80°-90°	236.8	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°	50247.0	100.0
0°-180°	50247.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943856

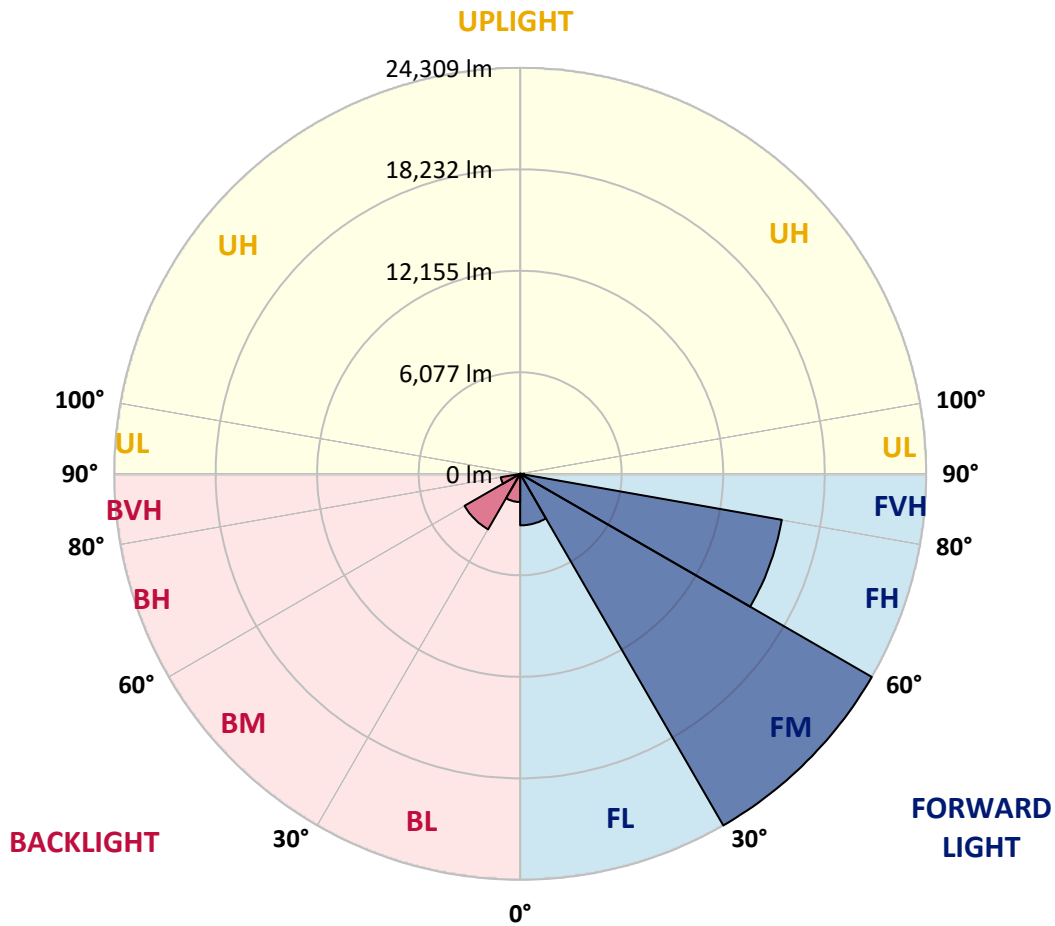
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3085.7	6.1			
FM (30°-60°)	24309.4	48.4			
FH (60°-80°)	15907.0	31.7			G5
FVH (80°-90°)	225.2	0.4			G3/500
BL (0°-30°)	1687.1	3.4	B3/2500		
BM (30°-60°)	3841.5	7.6	B3/5000		
BH (60°-80°)	1179.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.6	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P943856

CATALOG NUMBER: GALN-SB8C-740-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2
2.5°	5824.0	5864.5	5854.4	5844.2	5840.9	5847.6	5851.0	5847.6	5847.6	5847.6
5°	5712.9	5746.6	5746.6	5770.1	5803.8	5844.2	5874.6	5881.3	5888.0	5898.1
7.5°	5500.7	5527.6	5547.8	5625.3	5709.5	5817.3	5908.2	5955.4	5962.1	5999.2
10°	5355.8	5389.5	5423.2	5504.0	5625.3	5787.0	5941.9	6056.5	6073.3	6160.9
12.5°	5349.1	5382.8	5426.6	5514.1	5655.6	5827.4	6016.0	6181.1	6211.4	6339.4
15°	5419.8	5460.2	5500.7	5608.5	5760.0	5968.9	6171.0	6376.5	6406.8	6588.7
17.5°	5564.7	5618.6	5648.9	5756.7	5918.4	6150.8	6416.9	6652.7	6679.6	6891.8
20°	5851.0	5915.0	5925.1	6012.7	6171.0	6420.3	6736.9	7029.9	7063.6	7306.2
22.5°	6443.8	6534.8	6453.9	6497.7	6639.2	6888.5	7232.0	7602.6	7649.7	7925.9
25°	7488.0	7616.0	7407.2	7333.1	7393.7	7653.1	8084.3	8552.5	8606.4	8828.7
27.5°	9539.4	9374.4	9057.7	8747.8	8565.9	8714.2	9199.2	9778.6	9846.0	10061.5
30°	11792.9	11648.1	11220.3	10533.1	10102.0	10078.4	10526.4	11173.1	11250.6	11456.1
32.5°	14049.8	13911.7	13446.8	12601.3	11853.5	11483.0	11792.9	12510.4	12550.8	12682.2
35°	16269.6	16128.1	15663.3	14797.6	13878.0	13035.9	12975.2	13783.7	13797.1	13935.2
37.5°	18502.9	18385.0	17889.8	17041.0	16134.8	14972.7	14410.2	14989.6	15006.4	15141.1
40°	20096.1	20146.7	19806.4	19149.6	18371.5	17101.6	16020.3	16272.9	16171.9	16397.6
42.5°	21463.7	21564.8	21268.3	20938.2	20486.9	19368.5	18014.4	17970.6	17809.0	17930.2
45°	22646.0	22730.3	22464.1	22386.7	22376.6	21591.7	20193.8	19931.1	19705.4	19681.8
47.5°	23080.6	23242.3	23356.8	23616.2	24121.4	23791.3	22447.3	22039.7	21787.1	21601.8
50°	23245.6	23417.4	23808.2	24562.7	25758.5	25900.0	24690.7	24232.6	23922.7	23585.8
52.5°	23023.3	23329.8	23855.3	25125.2	26860.0	27590.9	26843.1	26442.3	26088.6	25539.5
55°	21713.0	22019.5	23094.0	25118.5	27409.0	28776.6	28877.7	28699.1	28301.7	27436.0
57.5°	18950.9	19405.6	21106.7	24262.9	27398.9	29797.2	30871.8	30999.8	30555.1	29315.6
60°	15124.3	15740.7	17815.7	22366.5	26553.4	30349.7	32620.0	33260.0	32788.4	31168.2
62.5°	10553.3	11267.4	13231.2	19395.5	24619.9	29952.2	33896.6	35079.0	34721.9	32825.5
65°	6437.1	6666.1	8249.3	15262.4	21332.3	28288.2	34290.7	36062.5	35944.7	33839.4
67.5°	4288.0	4480.0	4934.8	10465.8	16559.3	24963.5	33347.6	35890.8	35924.4	33674.3
70°	2583.6	2748.6	3045.1	6086.8	10731.9	19759.3	30427.1	33701.3	33896.6	31468.0
72.5°	1064.4	1175.6	1445.1	2758.8	5557.9	12540.7	24229.2	28934.9	29389.7	26459.1
75°	603.0	660.2	848.8	1384.4	2411.8	5844.2	14676.3	20540.8	21211.1	18236.7
77.5°	400.8	427.8	549.1	896.0	1357.5	1994.1	6272.0	10701.5	11981.6	9960.5
80°	269.5	293.1	377.3	599.6	882.5	855.6	1997.5	3964.7	4877.5	3422.3
82.5°	181.9	185.3	269.5	394.1	559.2	414.3	589.5	1232.8	1549.5	990.3
85°	104.4	101.1	198.7	229.1	249.3	171.8	178.5	370.5	485.1	417.7
87.5°	13.5	20.2	77.5	60.6	33.7	37.1	37.1	64.0	94.3	101.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943856
 CATALOG NUMBER: GALN-SB8C-740-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5844.2	0°	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2	5844.2
5851.0	2.5°	5851.0	5847.6	5837.5	5827.4	5803.8	5790.4	5797.1	5790.4	5787.0	5790.4
5894.8	5°	5894.8	5884.7	5857.7	5824.0	5776.9	5719.6	5682.6	5628.7	5578.1	5547.8
6012.7	7.5°	6012.7	6002.6	5965.5	5871.2	5719.6	5480.5	5261.5	5069.5	4924.7	4840.5
6201.3	10°	6201.3	6184.5	6127.2	5918.4	5520.9	4998.8	4564.2	4203.8	3968.0	3856.9
6423.6	12.5°	6423.6	6403.4	6302.4	5874.6	5143.6	4328.4	3728.9	3328.0	3109.1	3011.4
6679.6	15°	6686.4	6659.4	6460.7	5665.7	4594.6	3587.4	3038.3	2738.5	2597.1	2509.5
7006.4	17.5°	7013.1	6965.9	6578.6	5352.5	3998.3	3021.5	2613.9	2388.2	2263.6	2179.4
7434.2	20°	7437.5	7360.0	6672.9	4978.6	3449.3	2664.4	2327.6	2139.0	2044.6	1970.5
8040.5	22.5°	8030.4	7919.2	6787.4	4574.3	3061.9	2418.5	2115.4	1977.3	1899.8	1815.6
8886.0	25°	8764.7	8633.3	6928.9	4200.4	2795.8	2206.3	1960.4	1845.9	1755.0	1657.3
9994.2	27.5°	9792.1	9556.3	7097.3	3893.9	2566.8	2024.4	1819.0	1691.0	1586.5	1505.7
11250.6	30°	10937.3	10550.0	7245.5	3708.7	2357.9	1856.0	1633.7	1505.7	1408.0	1350.7
12379.0	32.5°	12022.0	11496.5	7343.2	3627.8	2169.3	1664.0	1431.6	1293.5	1219.4	1202.5
13483.9	35°	13046.0	12352.1	7333.1	3550.3	2000.9	1472.0	1232.8	1091.4	1034.1	1044.2
14672.9	37.5°	14224.9	13264.9	7262.4	3429.1	1862.7	1296.9	1061.1	936.4	885.9	889.3
16118.0	40°	15595.9	14319.2	7218.6	3200.0	1711.2	1135.2	919.6	818.5	781.5	768.0
17640.5	42.5°	17057.8	15339.9	7225.3	2940.7	1522.5	990.3	821.9	737.7	704.0	693.9
19334.9	45°	18526.4	16313.4	7235.4	2671.2	1323.8	879.2	751.2	680.4	660.2	646.7
21052.8	47.5°	19907.5	17142.0	7046.8	2381.5	1128.4	795.0	693.9	646.7	629.9	613.1
22777.4	50°	21194.2	17694.4	6592.0	2044.6	973.5	727.6	650.1	616.4	599.6	582.7
24340.4	52.5°	22194.7	17782.0	5840.9	1697.7	865.7	677.1	623.2	592.8	572.6	555.8
25603.5	55°	22639.3	17233.0	4773.1	1374.3	781.5	633.3	596.2	565.9	542.3	525.5
26597.2	57.5°	22524.8	16077.6	3722.1	1104.8	700.6	589.5	562.5	542.3	515.4	488.4
27402.3	60°	21962.2	14531.5	2805.9	919.6	626.5	542.3	525.5	508.6	471.6	431.2
27712.2	62.5°	20988.8	12587.9	2000.9	761.3	545.7	488.4	481.7	468.2	414.3	340.2
27254.1	65°	19499.9	10226.6	1347.4	633.3	468.2	427.8	431.2	407.6	336.8	252.6
25576.6	67.5°	17323.9	7477.9	862.3	518.7	390.7	357.1	360.4	346.9	286.3	215.6
22396.8	70°	14551.7	4951.6	562.5	394.1	313.3	276.2	296.4	299.8	242.5	175.2
17189.2	72.5°	10667.9	2923.8	394.1	293.1	229.1	192.0	242.5	249.3	195.4	131.4
10341.1	75°	6080.0	1387.8	296.4	212.2	141.5	134.7	188.6	188.6	134.7	87.6
4476.7	77.5°	2553.3	579.4	208.8	138.1	80.8	77.5	128.0	117.9	67.4	40.4
1091.4	80°	737.7	259.4	111.2	67.4	33.7	30.3	50.5	37.1	16.8	6.7
414.3	82.5°	289.7	114.5	43.8	26.9	13.5	13.5	6.7	0.0	0.0	0.0
235.8	85°	171.8	47.2	20.2	10.1	3.4	0.0	0.0	0.0	0.0	0.0
50.5	87.5°	43.8	10.1	6.7	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>
5844.2
5803.8
5554.6
4843.8
3846.8
3001.3
2512.9
2172.6
1957.1
1802.1
1647.2
1488.9
1340.6
1212.6
1044.2
902.7
764.6
690.5
646.7
613.1
582.7
552.4
522.1
485.1
424.4
333.5
245.9
205.5
168.4
124.6
80.8
40.4
6.7
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