

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: P956731

Luminaire Tested: **GALN-SB9B-750-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-750-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41470 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

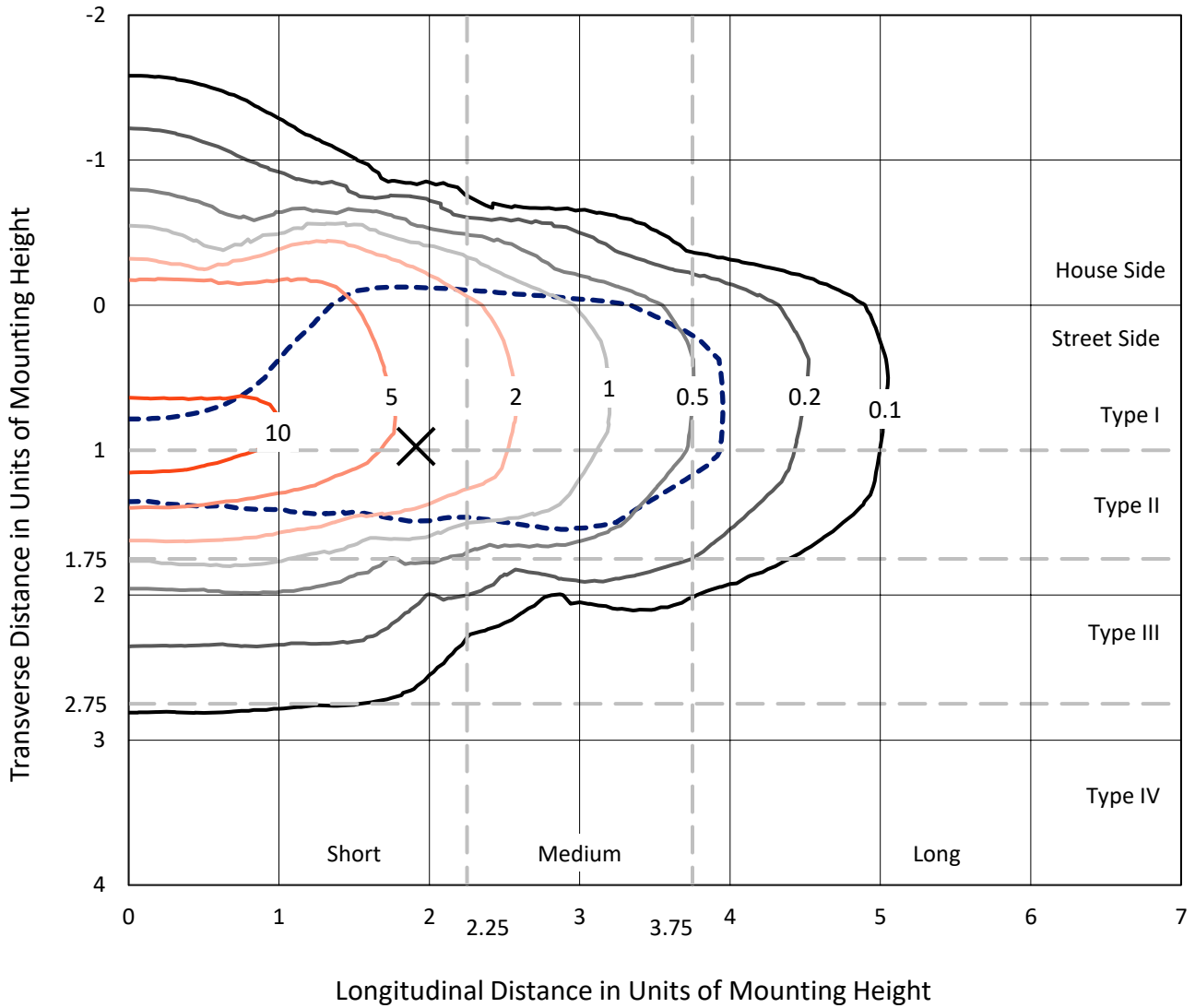
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

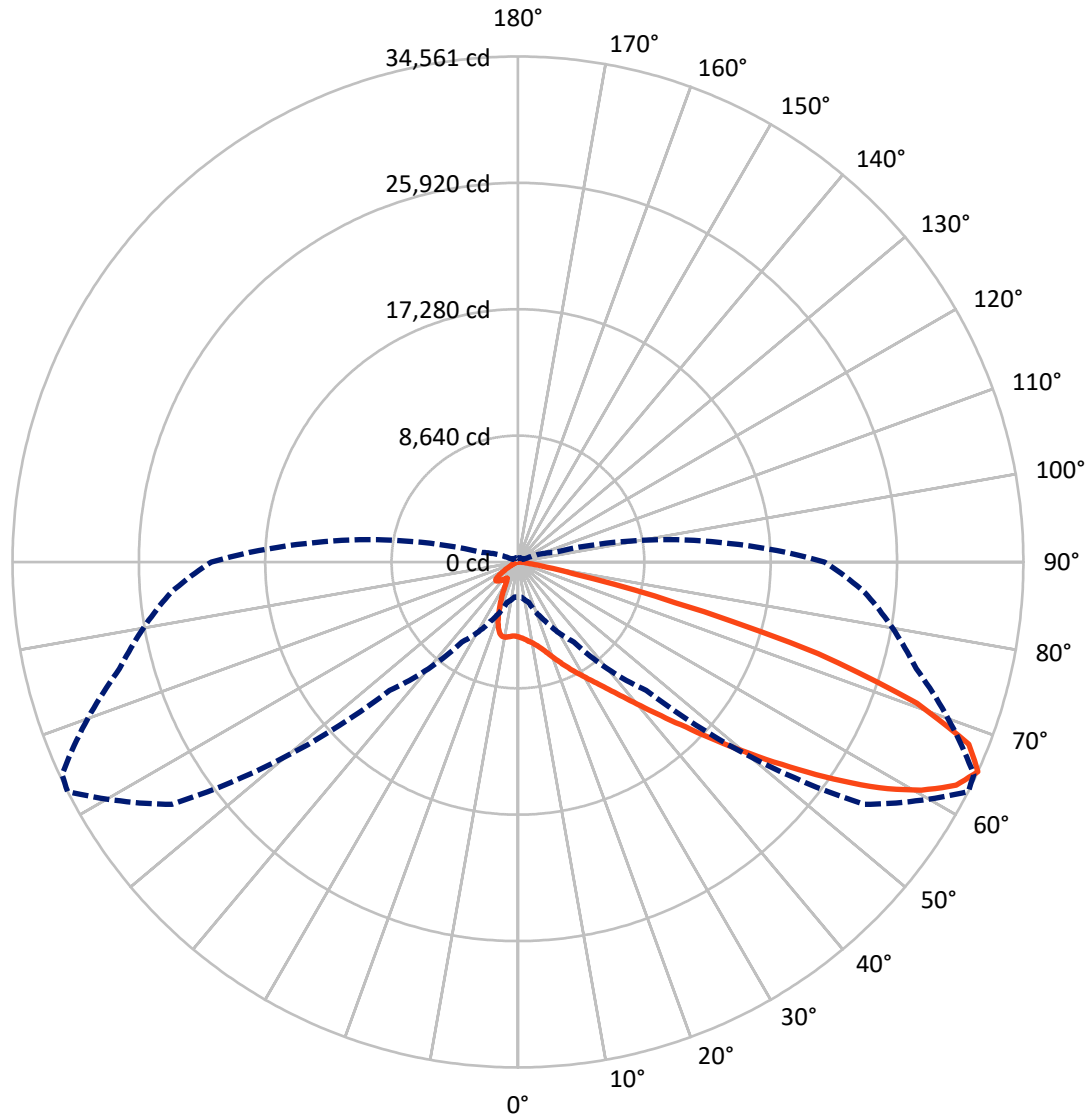
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6095.8	0.0	6095.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	35374.2	0.0	35374.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	41470.0	0.0	41470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.2	1.2
10°-20°	1338.0	3.2
20°-30°	2329.8	5.6
30°-40°	4199.2	10.1
40°-50°	8328.4	20.1
50°-60°	11344.7	27.4
60°-70°	9055.3	21.8
70°-80°	4097.7	9.9
80°-90°	294.5	0.7
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°	41470.0	100.0
0°-180°	41470.0	100.0

Coefficient of Utilization



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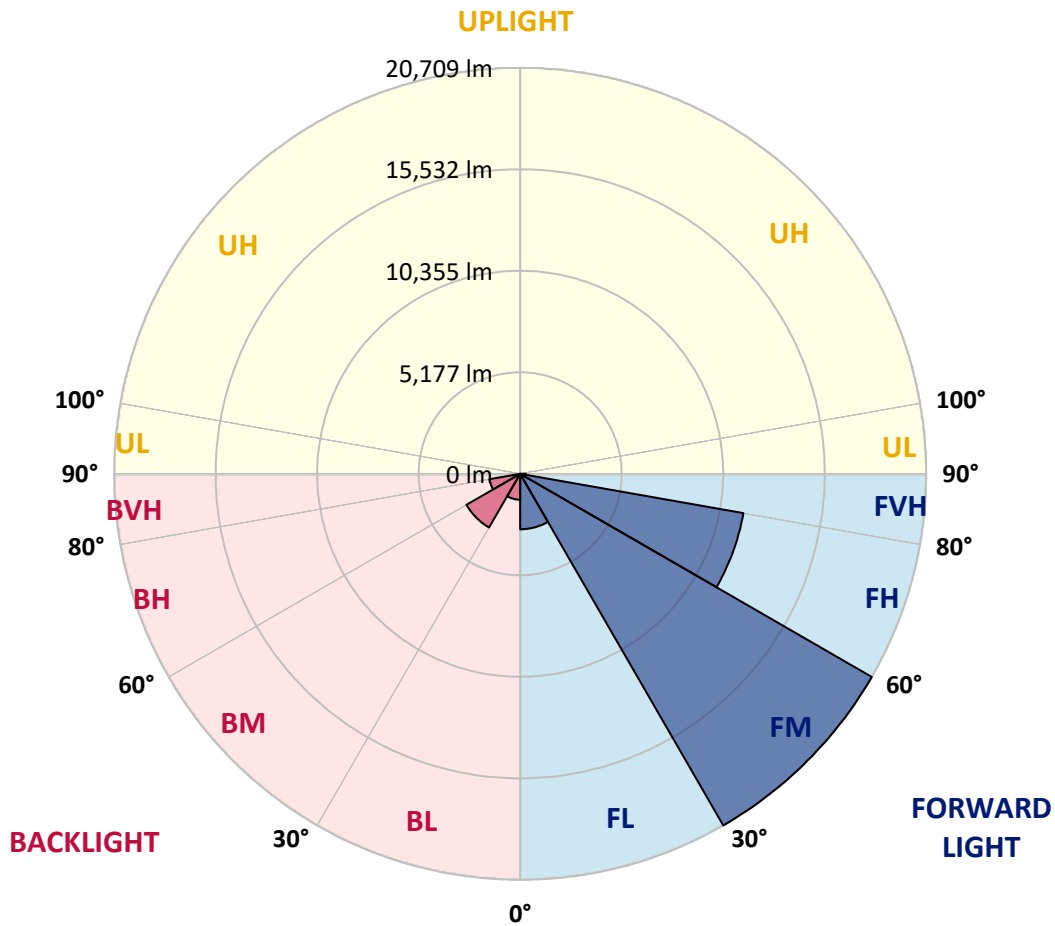
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2830.8	6.8			
FM (30°-60°)	20709.1	49.9			
FH (60°-80°)	11561.6	27.9			G4/12000
FVH (80°-90°)	272.7	0.7			G3/500
BL (0°-30°)	1319.2	3.2	B3/2500		
BM (30°-60°)	3163.3	7.6	B3/5000		
BH (60°-80°)	1591.4	3.8	B3/2500		G3/2500
BVH (80°-90°)	21.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2
2.5°	5238.0	5223.7	5243.7	5235.2	5229.4	5218.0	5212.3	5206.6	5195.2	5186.7
5°	5252.3	5243.7	5263.7	5280.8	5297.9	5315.0	5323.6	5335.0	5323.6	5300.8
7.5°	5132.4	5126.7	5169.5	5220.9	5297.9	5363.5	5434.9	5474.8	5477.7	5469.1
10°	5123.9	5109.6	5152.4	5215.2	5315.0	5432.0	5557.5	5643.1	5654.5	5691.6
12.5°	5258.0	5243.7	5303.6	5372.1	5474.8	5597.5	5751.5	5871.4	5888.5	5939.8
15°	5483.4	5463.4	5531.9	5620.3	5751.5	5891.3	6053.9	6162.4	6176.6	6239.4
17.5°	5745.8	5725.9	5805.7	5899.9	6042.5	6233.7	6422.0	6541.8	6558.9	6598.9
20°	6082.5	6056.8	6119.6	6205.2	6356.4	6584.6	6810.0	6981.2	6978.3	6978.3
22.5°	6473.3	6433.4	6487.6	6556.1	6698.7	6975.4	7275.0	7477.6	7477.6	7397.7
25°	6892.7	6852.8	6912.7	6975.4	7101.0	7414.8	7765.7	8016.8	8028.2	7891.2
27.5°	7417.7	7366.3	7411.9	7486.1	7560.3	7879.8	8296.4	8587.4	8593.1	8381.9
30°	8427.6	8282.1	8139.4	8059.6	8093.8	8410.5	8855.5	9177.9	9206.5	8915.5
32.5°	10276.3	10247.8	9745.7	9089.5	8747.1	8981.1	9480.3	9868.3	9885.5	9511.7
35°	13149.2	13115.0	12307.6	11058.0	9942.5	9745.7	10239.2	10698.5	10687.1	10264.9
37.5°	16578.5	16547.1	15482.9	13811.1	12005.2	10901.1	11217.8	11699.9	11771.2	11217.8
40°	19508.4	19391.5	18718.2	17106.3	14744.0	12818.3	12610.0	12929.5	13003.7	12347.5
42.5°	21728.0	21628.2	21285.8	20278.7	18059.1	15654.1	14250.5	14373.1	14455.9	13668.5
45°	22877.8	22854.9	22991.9	22897.7	21437.0	19134.7	16595.6	16084.9	16116.3	15132.0
47.5°	23040.4	23029.0	23653.8	24538.2	24341.3	23060.3	19605.4	18218.9	18107.6	16783.9
50°	22081.8	22059.0	23257.2	24914.8	26281.3	26358.3	23023.3	20623.9	20378.6	18492.8
52.5°	19020.6	19014.9	20983.4	23742.2	26963.2	29245.5	26401.1	23265.8	22854.9	20301.5
55°	14635.6	14741.2	16997.8	20258.8	25719.3	30634.9	29433.8	26198.6	25568.1	22121.7
57.5°	10367.6	10521.7	12752.7	15657.0	21862.1	29813.3	31485.1	29137.1	28458.1	23936.2
60°	5568.9	5705.9	7939.7	11406.1	16264.6	26749.2	32566.4	31687.6	31045.7	25659.4
62.5°	3318.0	3363.6	4288.0	7363.4	11001.0	20435.6	32107.0	33630.5	33102.7	27105.8
65°	2382.2	2390.8	2855.8	4496.2	6678.7	12416.0	28886.1	34560.6	34397.9	28195.6
67.5°	2005.6	1999.9	2193.9	2987.0	4550.4	6219.4	22138.8	33245.4	33935.8	28886.1
70°	1720.3	1728.9	1957.1	2188.2	3420.7	3520.5	11006.7	28946.0	30418.1	29068.6
72.5°	1281.0	1309.5	1520.6	1994.2	2581.9	2422.1	3800.1	21462.7	24124.5	27388.3
75°	904.4	918.6	1069.9	1677.5	1925.7	1763.1	1940.0	11095.1	14507.2	20997.7
77.5°	696.1	721.8	810.2	1172.6	1897.2	1238.2	1186.8	3840.1	5899.9	12684.2
80°	376.6	422.2	584.9	847.3	1332.3	875.9	587.7	1529.2	1999.9	5931.3
82.5°	194.0	216.8	408.0	610.5	758.9	764.6	291.0	636.2	824.5	1831.6
85°	77.0	94.1	273.9	336.6	390.9	376.6	131.2	256.8	296.7	507.8
87.5°	17.1	28.5	99.9	77.0	74.2	79.9	31.4	59.9	57.1	59.9
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°
5118.2	0°	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2	5118.2
5152.4	2.5°	5149.6	5138.2	5106.8	5072.5	5032.6	5009.8	4995.5	4992.7	4972.7	4958.4
5266.5	5°	5235.2	5223.7	5163.8	5092.5	5015.5	4955.6	4898.5	4847.2	4773.0	4758.7
5432.0	7.5°	5406.3	5374.9	5277.9	5180.9	5035.4	4861.4	4650.3	4407.8	4191.0	4125.4
5651.7	10°	5617.4	5574.7	5452.0	5280.8	4958.4	4484.8	3974.2	3500.6	3124.0	3018.4
5911.3	12.5°	5857.1	5820.0	5657.4	5340.7	4636.0	3777.3	2995.6	2407.9	2042.7	1951.4
6188.0	15°	6142.4	6088.2	5862.8	5249.4	4059.7	2870.1	2057.0	1708.9	1577.7	1560.6
6504.7	17.5°	6444.8	6356.4	6045.4	4921.3	3283.7	2039.9	1589.1	1489.2	1432.2	1415.1
6824.2	20°	6721.5	6607.4	6153.8	4424.9	2453.5	1589.1	1423.6	1358.0	1306.6	1286.7
7143.8	22.5°	6998.3	6835.7	6153.8	3748.8	1840.1	1409.4	1306.6	1246.7	1186.8	1161.1
7486.1	25°	7286.4	7069.6	6045.4	2995.6	1480.7	1292.4	1195.4	1129.8	1078.4	1047.0
7811.4	27.5°	7566.0	7266.4	5797.2	2282.4	1318.1	1189.7	1092.7	1029.9	981.4	958.6
8165.1	30°	7831.3	7460.4	5449.1	1731.7	1212.5	1089.8	998.5	944.3	895.8	873.0
8624.4	32.5°	8190.8	7705.8	5078.2	1420.8	1121.2	995.7	912.9	861.6	818.8	801.7
9220.7	35°	8690.1	8068.1	4758.7	1395.1	1044.2	918.6	835.9	787.4	744.6	730.4
9991.0	37.5°	9397.6	8653.0	4590.4	1566.3	981.4	850.2	773.1	721.8	681.9	670.4
10969.6	40°	10270.6	9446.1	4681.7	1737.4	938.6	790.3	716.1	664.7	630.5	616.2
12093.6	42.5°	11306.2	10424.7	5186.7	1868.7	910.1	738.9	661.9	604.8	582.0	576.3
13368.9	45°	12495.9	11500.2	5959.8	2008.5	864.4	690.4	607.7	564.9	547.8	544.9
14755.4	47.5°	13848.2	12681.3	6855.6	2182.5	818.8	644.8	564.9	536.4	522.1	516.4
16201.9	50°	15189.1	13871.0	7777.1	2279.5	781.7	602.0	530.6	507.8	496.4	493.6
17731.0	52.5°	16592.7	15094.9	8521.7	2188.2	750.3	567.7	502.1	485.0	473.6	470.7
19140.4	55°	17930.8	16084.9	8650.1	1857.3	687.6	533.5	470.7	462.2	447.9	447.9
20569.7	57.5°	19083.3	16581.3	7742.9	1363.7	624.8	482.1	439.4	430.8	419.4	416.5
21859.3	60°	20141.8	16438.7	5976.9	918.6	556.3	430.8	399.4	393.7	382.3	368.0
22980.5	62.5°	20738.1	15811.0	4088.3	599.1	487.9	376.6	353.8	350.9	325.2	296.7
23810.7	65°	20963.4	14521.5	2550.5	436.5	408.0	322.4	305.3	299.6	262.5	231.1
24281.4	67.5°	20766.6	12398.9	1286.7	345.2	322.4	268.2	251.1	251.1	225.4	196.9
24252.9	70°	19979.2	9294.9	542.1	276.7	248.2	205.4	205.4	216.8	191.1	159.8
22994.7	72.5°	18270.3	6253.7	288.1	211.1	185.4	145.5	168.3	176.9	151.2	119.8
18820.9	75°	14524.3	3814.4	199.7	156.9	117.0	102.7	128.4	134.1	102.7	79.9
12903.9	77.5°	9934.0	2191.1	134.1	99.9	74.2	59.9	88.4	82.7	54.2	37.1
4975.5	80°	4362.2	912.9	77.0	45.6	28.5	22.8	31.4	22.8	17.1	11.4
681.9	82.5°	510.7	214.0	28.5	17.1	11.4	5.7	2.9	0.0	0.0	0.0
208.3	85°	105.6	25.7	14.3	5.7	2.9	0.0	0.0	0.0	0.0	0.0
37.1	87.5°	20.0	5.7	2.9	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>
5118.2
4972.7
4753.0
4094.0
2978.5
1925.7
1543.4
1406.5
1275.3
1146.9
1035.6
958.6
875.9
801.7
730.4
667.6
613.4
576.3
542.1
516.4
493.6
470.7
445.1
413.7
365.2
291.0
228.2
194.0
156.9
119.8
77.0
39.9
11.4
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