

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: P951957

Luminaire Tested: **GALN-SB5D-950-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-950-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34948 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

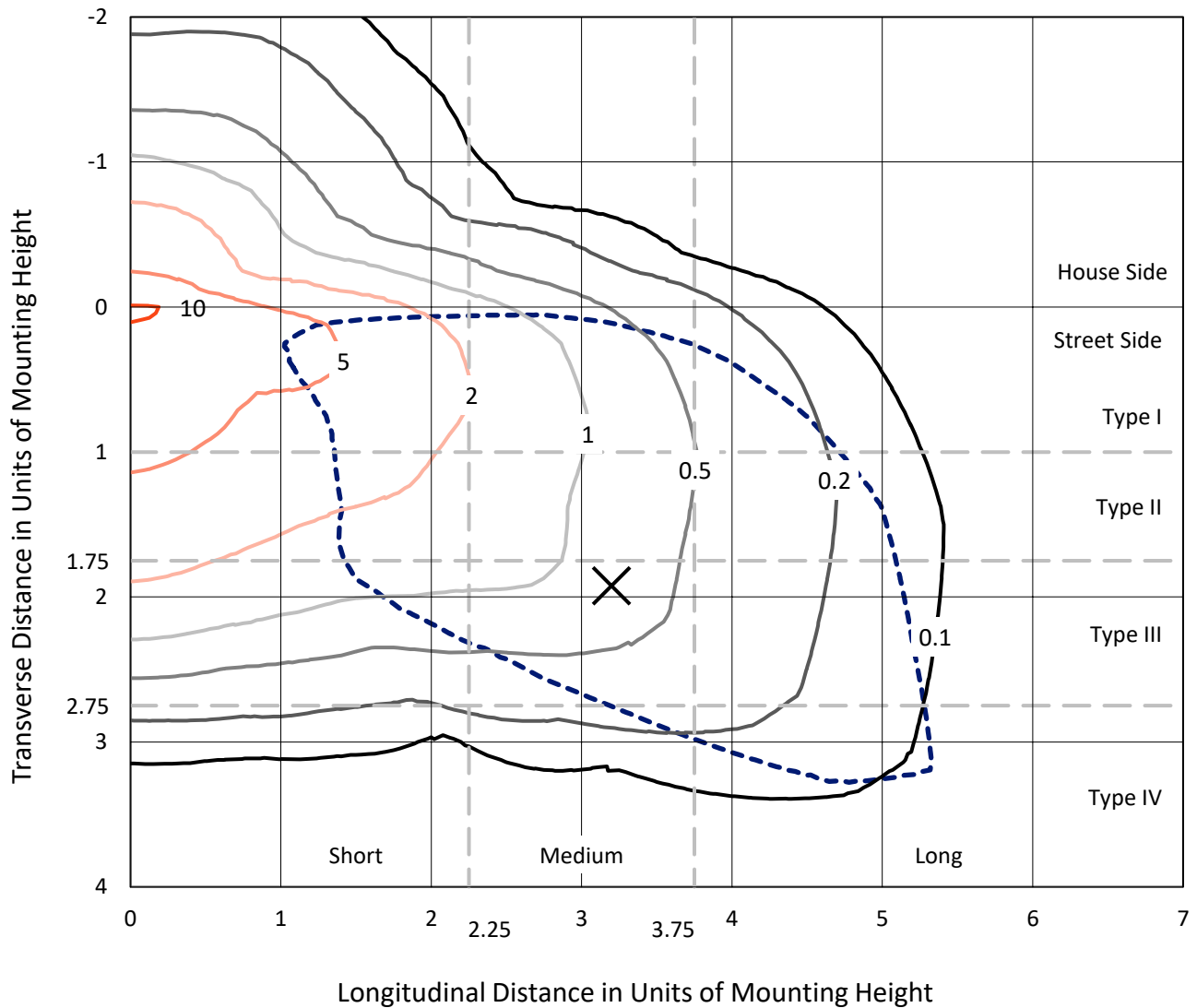
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

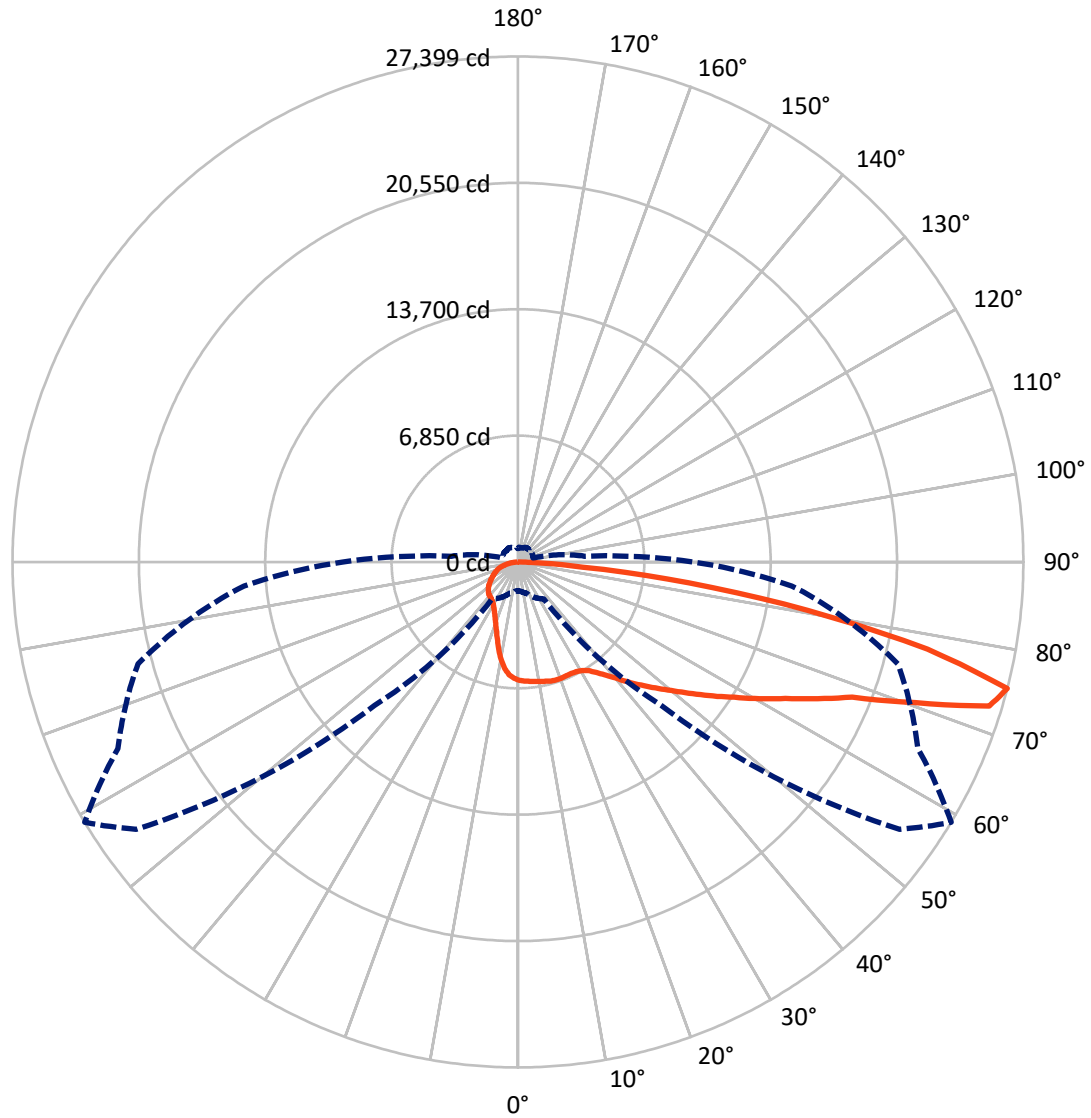
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6554.7	0.0	6554.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28393.3	0.0	28393.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	34948.0	0.0	34948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.2	1.6
10°-20°	1470.2	4.2
20°-30°	2233.1	6.4
30°-40°	3319.4	9.5
40°-50°	4936.6	14.1
50°-60°	6700.8	19.2
60°-70°	8180.6	23.4
70°-80°	6420.0	18.4
80°-90°	1112.1	3.2
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°	34948.0	100.0
0°-180°	34948.0	100.0

Coefficient of Utilization



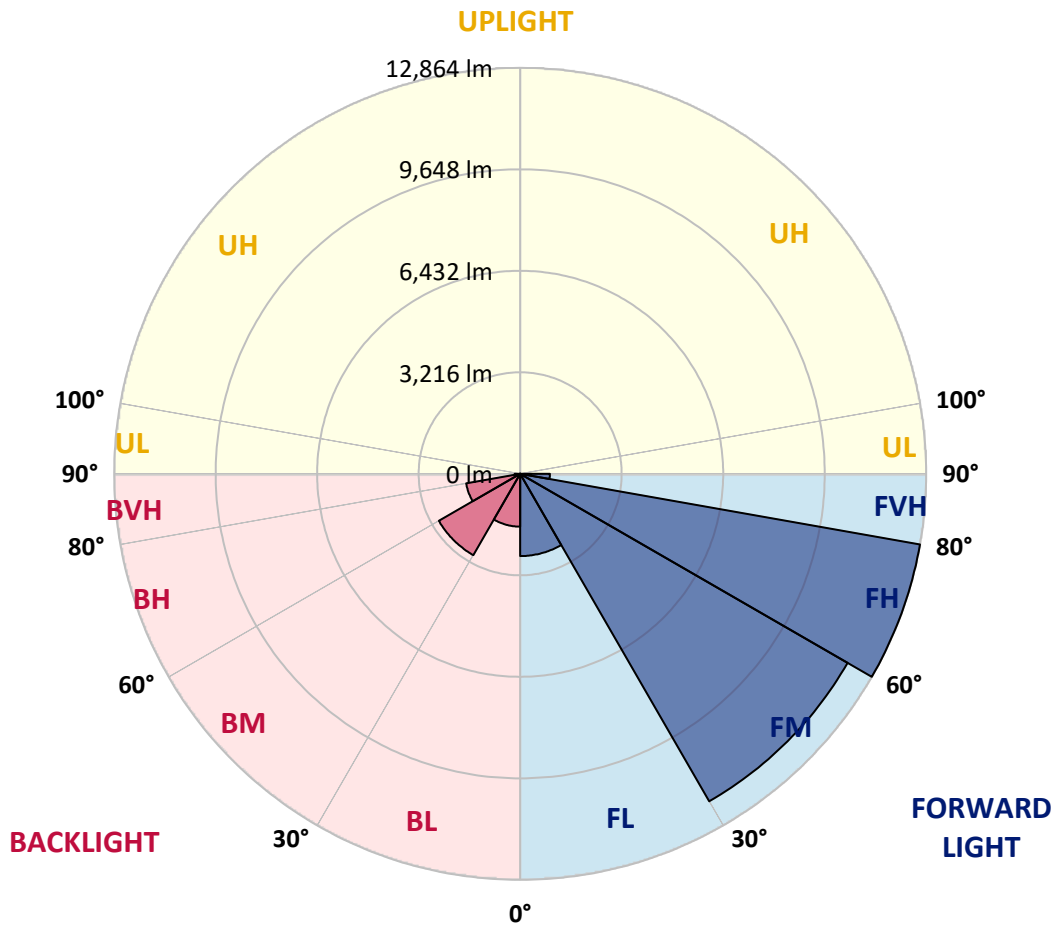
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2605.8	7.5			
FM (30°-60°)	11981.6	34.3			
FH (60°-80°)	12864.0	36.8			G5
FVH (80°-90°)	941.9	2.7			G5
BL (0°-30°)	1672.7	4.8	B3/2500		
BM (30°-60°)	2975.2	8.5	B3/5000		
BH (60°-80°)	1736.6	5.0	B3/2500		G3/2500
BVH (80°-90°)	170.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6
2.5°	6469.1	6446.6	6469.1	6459.7	6456.0	6448.5	6450.3	6463.5	6456.0	6465.4
5°	6425.9	6412.7	6435.3	6429.7	6454.1	6457.9	6482.3	6497.3	6506.7	6508.6
7.5°	6354.5	6341.3	6373.3	6399.6	6452.2	6467.3	6518.0	6542.5	6555.6	6578.2
10°	6093.1	6087.5	6166.5	6266.1	6390.2	6467.3	6544.3	6585.7	6606.4	6666.6
12.5°	5630.7	5638.2	5741.6	5933.3	6181.5	6429.7	6574.4	6634.6	6666.6	6741.8
15°	5188.9	5187.0	5299.8	5504.7	5852.5	6264.2	6589.5	6692.9	6747.4	6858.3
17.5°	4933.2	4925.7	5004.6	5160.7	5484.0	6010.4	6551.9	6724.8	6841.4	6980.5
20°	4886.2	4871.1	4912.5	4989.6	5218.9	5732.2	6454.1	6724.8	6916.6	7097.1
22.5°	5057.3	5032.8	5015.9	5006.5	5108.0	5502.8	6343.2	6702.3	7027.5	7264.4
25°	5401.3	5363.7	5277.2	5192.6	5162.5	5399.4	6245.4	6696.6	7193.0	7490.0
27.5°	5957.8	5910.8	5735.9	5532.9	5350.5	5452.1	6202.2	6730.5	7375.3	7728.8
30°	6647.7	6597.0	6377.0	6064.9	5737.8	5647.6	6256.7	6830.1	7608.4	8046.5
32.5°	7266.3	7209.9	7021.9	6704.2	6262.3	5986.0	6429.7	7020.0	7975.0	8488.3
35°	7815.2	7749.4	7580.2	7287.0	6905.3	6461.6	6741.8	7356.5	8495.8	9206.5
37.5°	8352.9	8275.8	8091.6	7781.4	7514.4	7095.2	7172.3	7788.9	9187.7	10078.8
40°	8954.5	8843.6	8619.9	8313.4	8054.0	7837.8	7738.2	8319.1	9890.8	11052.6
42.5°	9537.3	9432.1	9165.1	8903.8	8578.5	8516.5	8394.3	8939.5	10659.7	12122.4
45°	10165.3	10039.3	9715.9	9385.1	9180.1	8967.7	9029.7	9559.9	11413.6	13212.8
47.5°	10753.7	10612.7	10231.1	9862.6	9749.8	9347.5	9612.5	10242.3	12197.6	14318.2
50°	11071.4	10932.3	10614.6	10281.8	10193.5	9815.6	10244.2	10992.5	13019.1	15419.9
52.5°	11336.5	11186.1	10770.6	10586.4	10560.1	10325.1	11022.6	11849.8	13840.7	16393.8
55°	11618.5	11451.2	10921.0	10755.6	10875.9	10896.6	11945.6	12821.7	14709.3	17343.2
57.5°	11943.8	11731.3	11065.8	10898.5	11184.2	11565.9	13006.0	13829.4	15562.8	18223.0
60°	12250.2	12035.9	11344.0	11126.0	11517.0	12342.3	14222.3	15049.6	16529.1	19007.0
62.5°	12310.4	12133.6	11565.9	11564.0	11968.2	13248.5	15662.4	16281.0	17373.3	19781.6
65°	11268.8	11157.9	10821.4	11547.1	12614.9	14553.2	17266.1	17856.4	18446.8	20458.4
67.5°	8576.7	8591.7	8567.3	9967.9	12092.3	16427.6	19587.9	19542.8	19772.2	21217.9
70°	3921.7	4010.1	4585.4	6880.9	9687.7	16643.8	23426.9	22842.2	21436.0	22201.2
72.5°	2118.8	2186.5	2421.5	3333.3	5824.3	14797.6	26295.8	26711.3	23648.8	22862.9
75°	1554.8	1592.4	1755.9	2118.8	2445.9	10998.1	25267.5	27399.4	23925.1	21319.4
77.5°	1163.7	1180.7	1314.1	1678.9	1252.1	5798.0	20189.5	22691.8	20480.9	17516.1
80°	844.1	862.9	962.6	1259.6	878.0	2120.7	13863.3	15927.5	14026.8	11165.4
82.5°	582.8	590.3	633.6	857.3	612.9	823.4	7866.0	9339.9	7830.3	3918.0
85°	351.6	361.0	379.8	500.1	347.8	391.0	3395.3	3511.9	2340.6	936.2
87.5°	144.8	154.2	169.2	210.6	137.2	109.0	560.2	703.1	438.0	274.5
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°
6414.6	0°	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6	6414.6
6433.4	2.5°	6424.0	6410.9	6375.1	6326.3	6281.1	6224.7	6200.3	6179.6	6160.8	6125.1
6484.2	5°	6463.5	6427.8	6331.9	6207.8	6066.8	5912.7	5762.3	5658.9	5570.5	5504.7
6542.5	7.5°	6523.7	6456.0	6281.1	6027.3	5704.0	5373.1	5074.2	4861.7	4701.9	4643.6
6625.2	10°	6585.7	6504.9	6200.3	5752.9	5194.5	4685.0	4288.3	4070.2	3942.4	3901.0
6723.0	12.5°	6659.0	6540.6	6074.3	5371.2	4624.8	4066.5	3720.6	3592.7	3526.9	3504.4
6843.3	15°	6766.2	6570.7	5884.5	4893.7	4081.5	3615.3	3391.6	3303.2	3269.4	3267.5
6967.4	17.5°	6847.0	6576.3	5589.3	4382.3	3664.2	3342.7	3158.4	3124.6	3147.2	3181.0
7089.6	20°	6937.3	6525.5	5202.0	3916.1	3370.9	3103.9	3026.8	3049.4	3103.9	3152.8
7251.2	22.5°	7001.2	6433.4	4733.9	3553.2	3117.1	2966.7	2962.9	3009.9	3040.0	3064.4
7441.1	25°	7057.6	6277.4	4237.6	3248.7	2908.4	2884.0	2925.3	2910.3	2889.6	2910.3
7631.0	27.5°	7099.0	6031.1	3793.9	2981.7	2761.7	2827.5	2803.1	2769.3	2767.4	2778.7
7854.7	30°	7085.8	5702.1	3429.2	2727.9	2658.3	2722.3	2664.0	2658.3	2652.7	2658.3
8191.2	32.5°	7085.8	5328.0	3149.0	2553.1	2592.5	2568.1	2562.5	2549.3	2526.7	2524.9
8648.1	35°	7125.3	4953.9	2908.4	2459.1	2538.0	2479.7	2483.5	2451.5	2404.5	2382.0
9253.5	37.5°	7206.1	4653.0	2669.6	2413.9	2442.1	2440.3	2425.2	2370.7	2288.0	2216.5
10009.2	40°	7401.6	4564.7	2506.1	2393.3	2397.0	2419.6	2380.1	2274.8	2086.8	1970.3
10776.3	42.5°	7708.1	4713.2	2470.3	2342.5	2366.9	2389.5	2312.4	2068.0	1934.5	1865.0
11580.9	45°	8097.2	4972.7	2547.4	2269.2	2295.5	2335.0	2105.6	1989.1	1928.9	1930.8
12378.1	47.5°	8589.8	5245.3	2690.3	2205.3	2192.1	2214.7	1968.4	1896.9	1814.2	1834.9
13143.2	50°	9159.5	5521.6	2825.7	2118.8	2077.4	2004.1	1880.0	1812.3	1707.1	1658.2
13882.1	52.5°	9776.1	5788.6	2880.2	2013.5	1953.3	1868.7	1819.9	1737.1	1609.3	1528.5
14579.6	55°	10360.8	6031.1	2820.0	1887.5	1829.3	1763.5	1755.9	1705.2	1567.9	1455.1
15200.0	57.5°	10913.5	6234.1	2669.6	1759.7	1703.3	1663.8	1714.6	1690.1	1517.2	1372.4
15786.5	60°	11381.6	6373.3	2451.5	1630.0	1590.5	1569.8	1646.9	1639.4	1445.7	1284.1
16312.9	62.5°	11753.9	6427.8	2210.9	1505.9	1496.5	1458.9	1552.9	1552.9	1355.5	1197.6
16775.4	65°	12045.3	6375.1	1966.5	1383.7	1402.5	1346.1	1438.2	1426.9	1259.6	1120.5
17307.5	67.5°	12302.8	6202.2	1695.8	1263.4	1306.6	1235.2	1317.9	1291.6	1154.3	1043.4
17768.1	70°	12417.5	5799.9	1387.5	1143.1	1195.7	1126.1	1197.6	1148.7	1035.9	960.7
17262.3	72.5°	11496.3	4820.4	1092.3	1017.1	1062.2	1005.8	1067.9	1011.5	908.0	874.2
14906.7	75°	9511.0	3617.2	840.4	879.8	913.7	870.4	911.8	870.4	776.4	800.9
11011.3	77.5°	6907.2	2442.1	643.0	735.1	750.1	727.6	763.3	716.3	631.7	626.0
5487.8	80°	3434.8	1430.7	503.8	580.9	575.3	560.2	601.6	579.0	507.6	537.7
1481.5	82.5°	994.5	612.9	366.6	408.0	396.7	400.4	430.5	441.8	661.8	656.1
460.6	85°	312.1	240.6	220.0	227.5	216.2	221.8	253.8	503.8	466.2	272.6
142.9	87.5°	80.8	82.7	54.5	58.3	60.2	71.4	80.8	306.4	146.6	95.9
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>
6414.6
6108.2
5450.2
4542.1
3837.1
3510.0
3275.0
3194.2
3169.7
3077.6
2923.4
2797.5
2679.0
2549.3
2404.5
2241.0
1985.3
1865.0
1940.2
1887.5
1671.3
1526.6
1455.1
1364.9
1278.4
1191.9
1113.0
1035.9
945.6
846.0
731.3
597.8
532.0
671.2
295.2
101.5
0.0

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