

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: P943004

Luminaire Tested: **GALN-SB7B-740-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30938 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

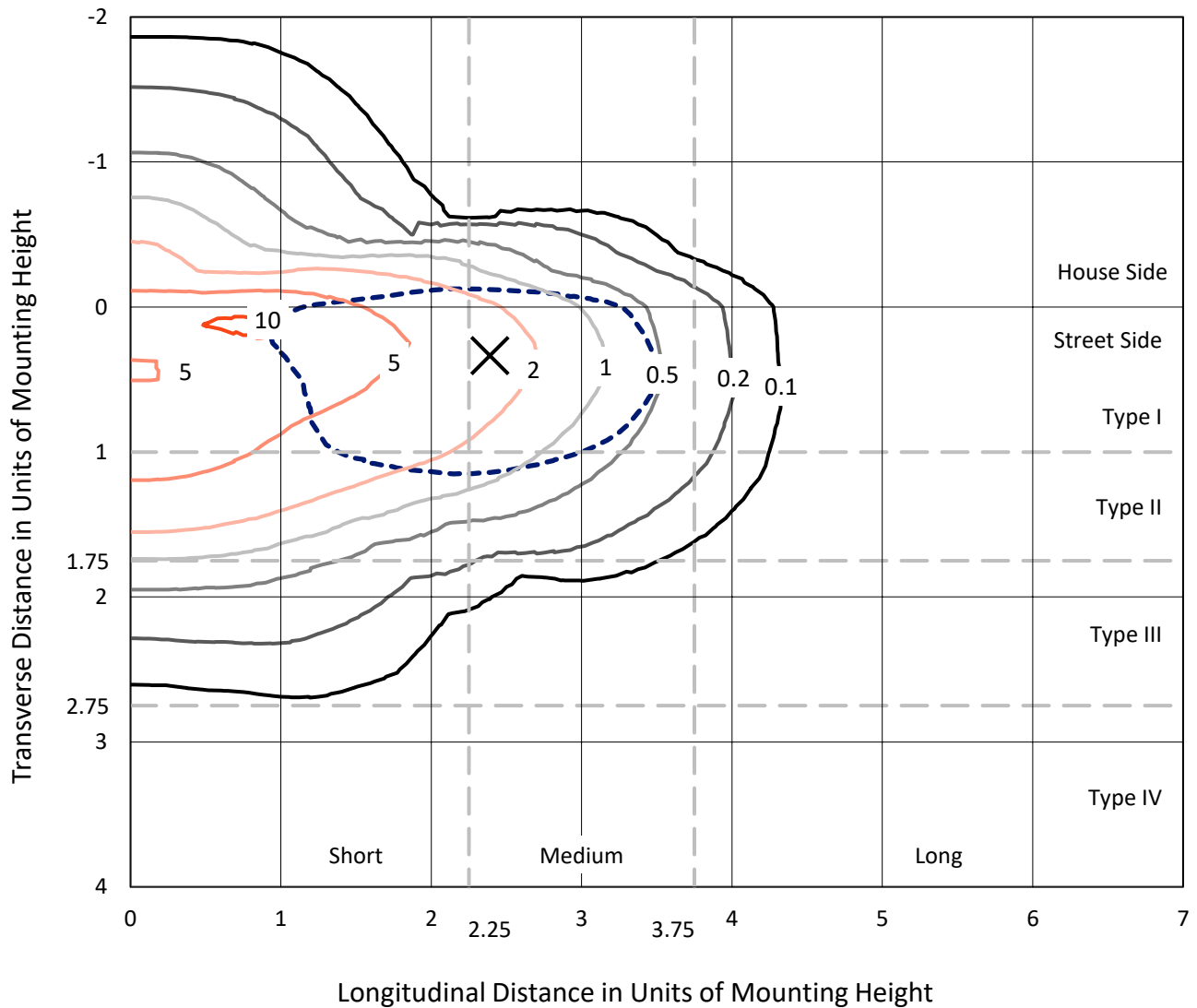
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

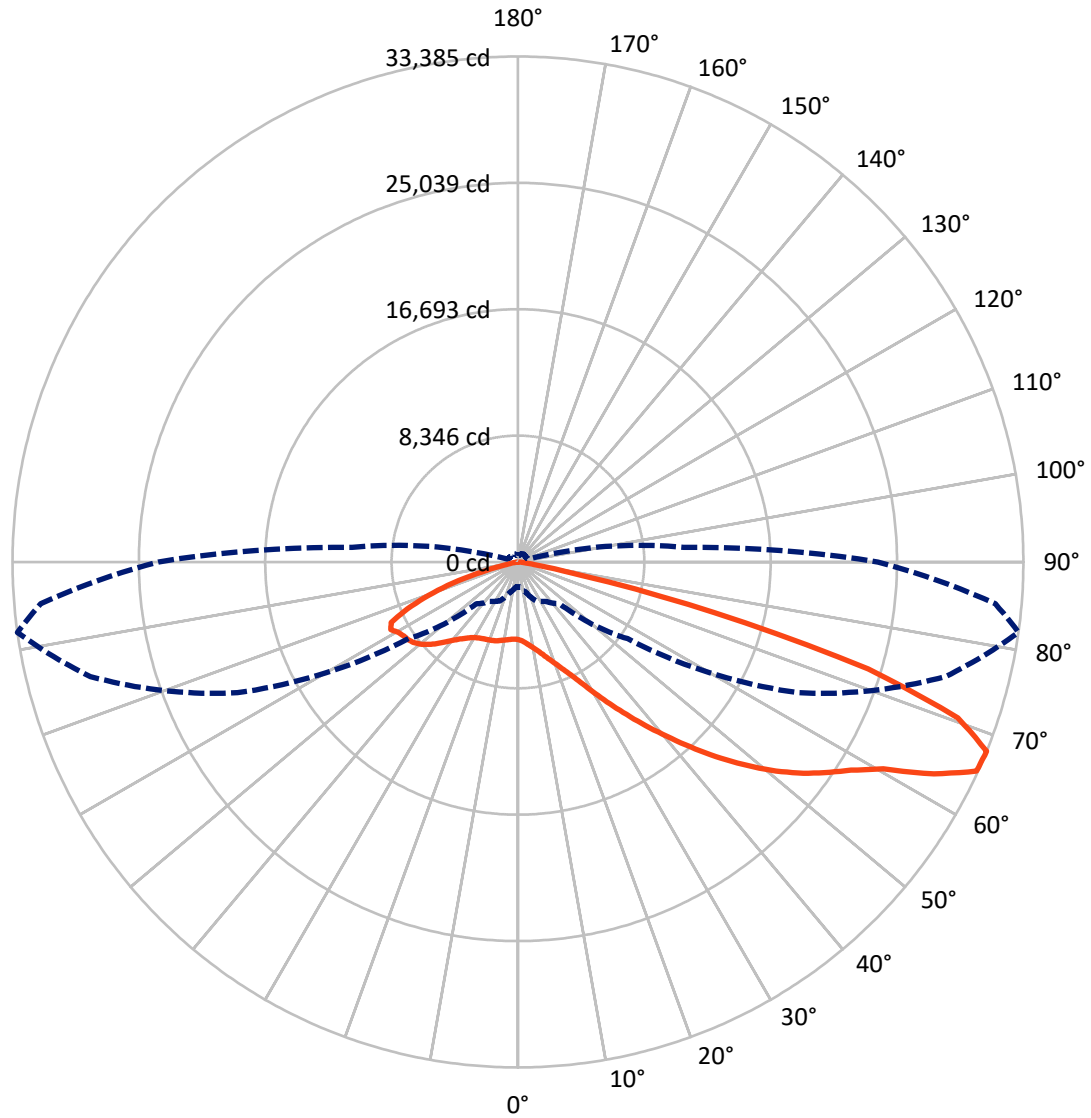
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5604.1	0.0	5604.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	25333.8	0.0	25333.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	30938.0	0.0	30938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.6	1.5
10°-20°	1186.6	3.8
20°-30°	1900.6	6.1
30°-40°	3360.8	10.9
40°-50°	5888.4	19.0
50°-60°	7853.5	25.4
60°-70°	7311.2	23.6
70°-80°	2806.0	9.1
80°-90°	174.3	0.6
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°	30938.0	100.0
0°-180°	30938.0	100.0

Coefficient of Utilization



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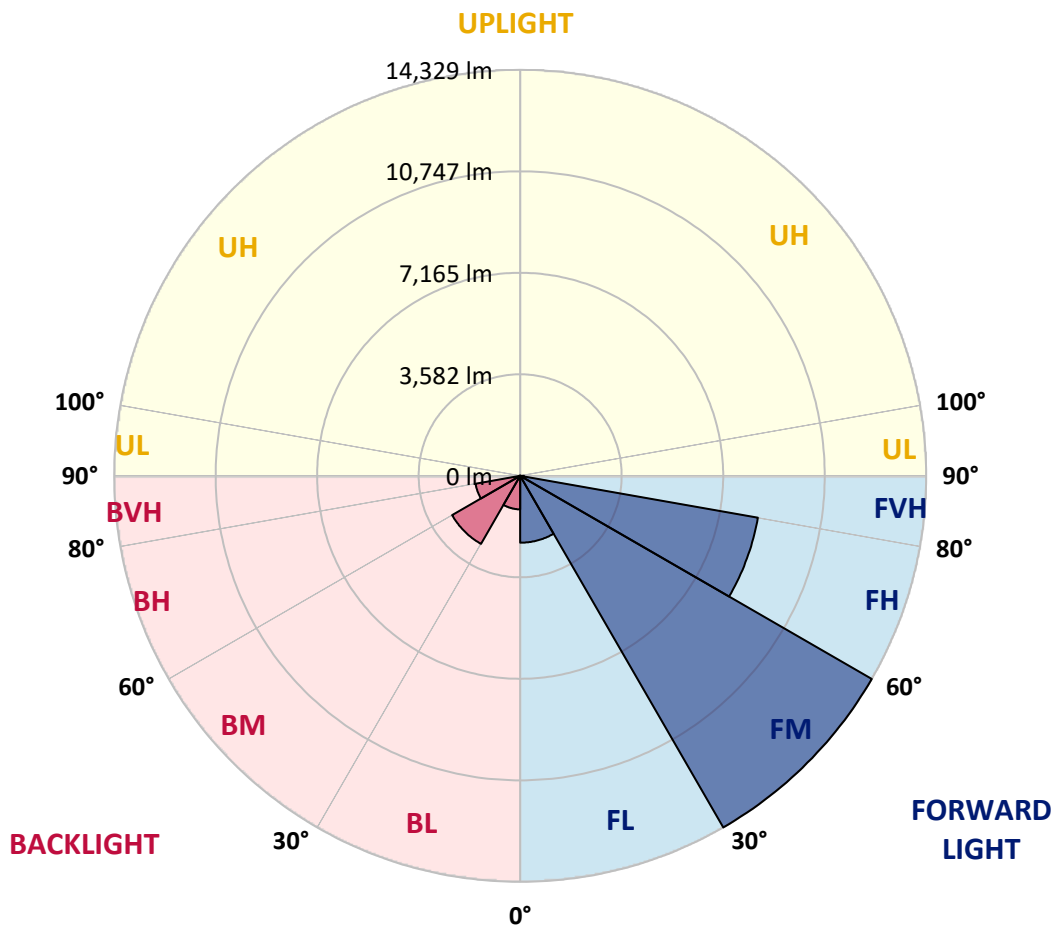
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2360.2	7.6			
FM (30°-60°)	14329.2	46.3			
FH (60°-80°)	8517.7	27.5			G4/12000
FVH (80°-90°)	126.7	0.4			G2/225
BL (0°-30°)	1183.6	3.8	B3/2500		
BM (30°-60°)	2773.5	9.0	B3/5000		
BH (60°-80°)	1599.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	47.6	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4
2.5°	5417.2	5448.4	5430.5	5421.6	5406.0	5383.8	5365.9	5310.3	5252.3	5214.5
5°	5526.3	5557.5	5555.3	5564.2	5575.3	5582.0	5577.6	5515.2	5432.8	5368.2
7.5°	5432.8	5468.4	5497.4	5541.9	5619.9	5702.3	5742.4	5729.0	5644.4	5555.3
10°	5167.7	5205.6	5274.6	5379.3	5544.1	5722.3	5871.6	5940.6	5887.2	5789.2
12.5°	4682.1	4720.0	4855.9	5083.1	5359.3	5668.9	5954.0	6138.9	6152.2	6054.2
15°	4136.4	4174.3	4319.0	4604.2	5025.1	5521.9	5998.5	6348.3	6466.3	6381.7
17.5°	3797.8	3831.2	3940.4	4169.8	4608.6	5227.8	5983.0	6571.0	6840.5	6773.7
20°	3695.4	3724.3	3775.5	3935.9	4301.2	4922.7	5880.5	6780.4	7243.7	7205.8
22.5°	3804.5	3831.2	3846.8	3918.1	4147.5	4722.2	5751.3	6994.2	7711.5	7715.9
25°	4056.2	4082.9	4065.1	4109.7	4209.9	4659.8	5702.3	7245.9	8299.5	8348.5
27.5°	4470.5	4472.7	4430.4	4428.2	4443.8	4753.4	5753.5	7515.4	9041.2	9132.6
30°	5301.3	5267.9	5105.3	4929.4	4849.2	5034.1	5896.1	7834.0	9916.6	10079.2
32.5°	6582.1	6533.1	6234.7	5813.7	5390.4	5486.2	6152.2	8197.0	10870.0	11164.0
35°	7972.1	7958.7	7646.9	7020.9	6281.4	6130.0	6568.8	8673.7	11910.2	12378.0
37.5°	9264.0	9257.3	9079.1	8341.8	7441.9	7027.6	7237.0	9297.4	13023.9	13701.1
40°	10444.5	10464.6	10286.4	9627.1	8720.5	8179.2	8145.8	10068.1	14262.4	15142.3
42.5°	11464.7	11487.0	11306.6	10818.8	9983.5	9453.3	9261.8	11012.5	15471.9	16690.3
45°	12157.5	12295.6	12268.8	11879.0	11279.8	10729.7	10602.7	12197.6	16850.7	18332.0
47.5°	12353.5	12480.4	12680.9	12734.4	12369.1	11827.8	11979.3	13625.4	18245.1	19975.8
50°	11870.1	11988.2	12404.7	12959.3	13213.3	13046.2	13318.0	15155.6	19672.9	21615.2
52.5°	10916.8	11037.1	11562.7	12440.3	13476.1	14001.8	14661.1	16663.6	21056.2	23167.8
55°	9538.0	9664.9	10339.9	11333.3	12974.9	14396.1	15781.5	18169.4	22323.6	24564.4
57.5°	7662.5	7756.0	8457.7	9847.6	11714.2	14004.0	16607.9	19813.2	23517.5	25936.5
60°	4994.0	5076.4	5891.6	7441.9	9624.8	12694.3	16772.8	21646.4	25103.4	27720.7
62.5°	3321.1	3376.8	3860.2	4998.4	6778.2	10179.5	15808.3	23109.9	27428.9	30825.8
65°	2278.7	2334.4	2817.7	3610.7	4379.2	6733.6	13035.1	22916.1	29536.1	33291.6
67.5°	1626.0	1672.8	2082.7	2831.1	3169.7	3911.4	8836.3	20439.1	29233.2	33385.1
70°	1165.0	1191.7	1530.3	2205.2	2519.3	2350.0	4913.8	15632.3	25595.7	30828.0
72.5°	815.2	824.2	1062.5	1679.5	2029.2	1715.1	2338.8	10422.3	19358.8	24196.9
75°	552.4	563.5	715.0	1231.8	1628.3	1309.7	1238.5	5588.7	11364.5	13393.7
77.5°	338.6	343.0	461.1	842.0	1218.4	997.9	797.4	2367.8	4397.0	4316.8
80°	191.6	191.6	294.0	523.5	830.8	643.7	559.1	1006.8	1392.2	1222.9
82.5°	106.9	109.1	213.8	325.2	550.2	380.9	307.4	465.5	601.4	532.4
85°	44.5	49.0	131.4	153.7	262.8	189.3	124.7	196.0	222.7	198.2
87.5°	4.5	6.7	40.1	29.0	31.2	37.9	17.8	37.9	31.2	31.2
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°
5125.4	0°	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4	5125.4
5201.1	2.5°	5158.8	5125.4	5040.7	4942.7	4813.5	4751.2	4666.5	4608.6	4559.6	4564.1
5330.3	5°	5259.0	5174.4	4985.0	4748.9	4454.9	4245.5	4022.8	3869.1	3744.4	3717.6
5508.5	7.5°	5397.1	5263.5	4931.6	4506.1	4009.4	3633.0	3296.6	3080.6	2926.9	2877.9
5724.6	10°	5575.3	5381.5	4862.5	4201.0	3486.0	3007.1	2646.2	2476.9	2372.2	2336.6
5978.5	12.5°	5782.5	5517.4	4771.2	3829.0	2946.9	2485.8	2256.4	2171.8	2138.4	2127.2
6290.3	15°	6043.1	5686.7	4633.1	3388.0	2490.3	2167.3	2069.3	2058.2	2062.6	2058.2
6664.6	17.5°	6352.7	5871.6	4408.1	2933.6	2182.9	2004.7	1969.1	1978.0	1989.1	1986.9
7083.3	20°	6691.3	6054.2	4120.8	2530.4	1973.5	1888.9	1868.8	1877.7	1886.7	1882.2
7566.7	22.5°	7076.6	6250.2	3802.3	2216.3	1833.2	1782.0	1759.7	1761.9	1761.9	1753.0
8179.2	25°	7537.7	6466.3	3468.2	1993.6	1726.3	1686.2	1659.5	1650.5	1637.2	1610.5
8923.2	27.5°	8087.9	6695.7	3147.4	1837.7	1641.6	1603.8	1572.6	1550.3	1516.9	1472.3
9816.4	30°	8707.1	6974.2	2875.6	1739.6	1574.8	1536.9	1501.3	1467.9	1418.9	1363.2
10843.3	32.5°	9435.5	7272.6	2677.4	1675.0	1514.7	1474.6	1432.3	1392.2	1338.7	1283.0
11997.1	35°	10304.2	7633.5	2561.6	1630.5	1467.9	1414.4	1367.7	1323.1	1283.0	1234.0
13251.1	37.5°	11246.4	8016.6	2525.9	1608.2	1436.7	1354.3	1300.8	1269.7	1265.2	1236.2
14607.7	40°	12277.7	8471.0	2552.7	1594.9	1403.3	1296.4	1238.5	1231.8	1242.9	1191.7
16057.7	42.5°	13369.2	9010.1	2597.2	1579.3	1356.5	1238.5	1182.8	1182.8	1173.9	1102.6
17590.2	45°	14549.8	9631.5	2641.8	1541.4	1300.8	1180.6	1138.2	1122.6	1084.8	1015.7
19131.6	47.5°	15739.2	10264.1	2675.2	1472.3	1234.0	1131.5	1093.7	1058.0	1002.4	940.0
20644.1	50°	16868.5	10832.1	2639.5	1369.9	1158.3	1084.8	1044.7	995.7	935.5	893.2
22076.3	52.5°	17877.6	11324.4	2488.1	1249.6	1078.1	1035.8	1000.1	948.9	899.9	855.3
23368.3	55°	18755.2	11723.1	2220.8	1136.0	1006.8	993.4	957.8	893.2	826.4	788.5
24649.0	57.5°	19597.2	12026.0	1886.7	1042.5	942.2	946.7	893.2	835.3	772.9	732.8
26375.3	60°	20717.6	12431.4	1548.1	955.6	873.2	886.5	828.6	786.3	708.3	657.1
29335.6	62.5°	22508.5	13061.8	1229.6	848.7	793.0	797.4	772.9	721.7	628.1	568.0
31529.7	65°	23929.6	12830.2	968.9	732.8	701.6	708.3	708.3	652.6	552.4	483.4
31647.7	67.5°	23769.2	10985.8	772.9	619.2	614.8	619.2	634.8	588.0	490.0	434.4
29237.6	70°	21895.9	8738.3	619.2	514.5	534.6	523.5	568.0	536.8	441.0	385.4
22666.6	72.5°	17866.4	6294.8	472.2	425.4	409.9	427.7	512.3	483.4	367.5	305.2
12006.0	75°	10440.1	3359.0	351.9	336.3	296.3	356.4	454.4	412.1	280.7	225.0
3679.8	77.5°	3399.1	1171.6	258.4	247.2	220.5	287.3	387.6	347.5	229.4	178.2
1078.1	80°	911.0	354.2	176.0	162.6	142.6	213.8	307.4	276.2	164.8	115.8
463.3	82.5°	365.3	149.2	102.5	91.3	78.0	147.0	242.8	222.7	122.5	73.5
144.8	85°	118.1	49.0	37.9	29.0	35.6	91.3	144.8	151.5	86.9	37.9
22.3	87.5°	15.6	6.7	6.7	8.9	6.7	15.6	44.5	42.3	24.5	4.5
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>
5125.4
4519.5
3657.5
2828.9
2309.9
2120.5
2055.9
1982.4
1880.0
1748.6
1606.0
1467.9
1358.7
1285.2
1229.6
1234.0
1193.9
1102.6
1013.5
937.8
886.5
850.9
784.1
728.4
650.4
563.5
476.7
425.4
378.7
298.5
218.3
171.5
113.6
73.5
29.0
0.0
0.0

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