

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: P942094

Luminaire Tested: **GALN-SB5D-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942094
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-SB5D-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 900mA 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: 27200 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

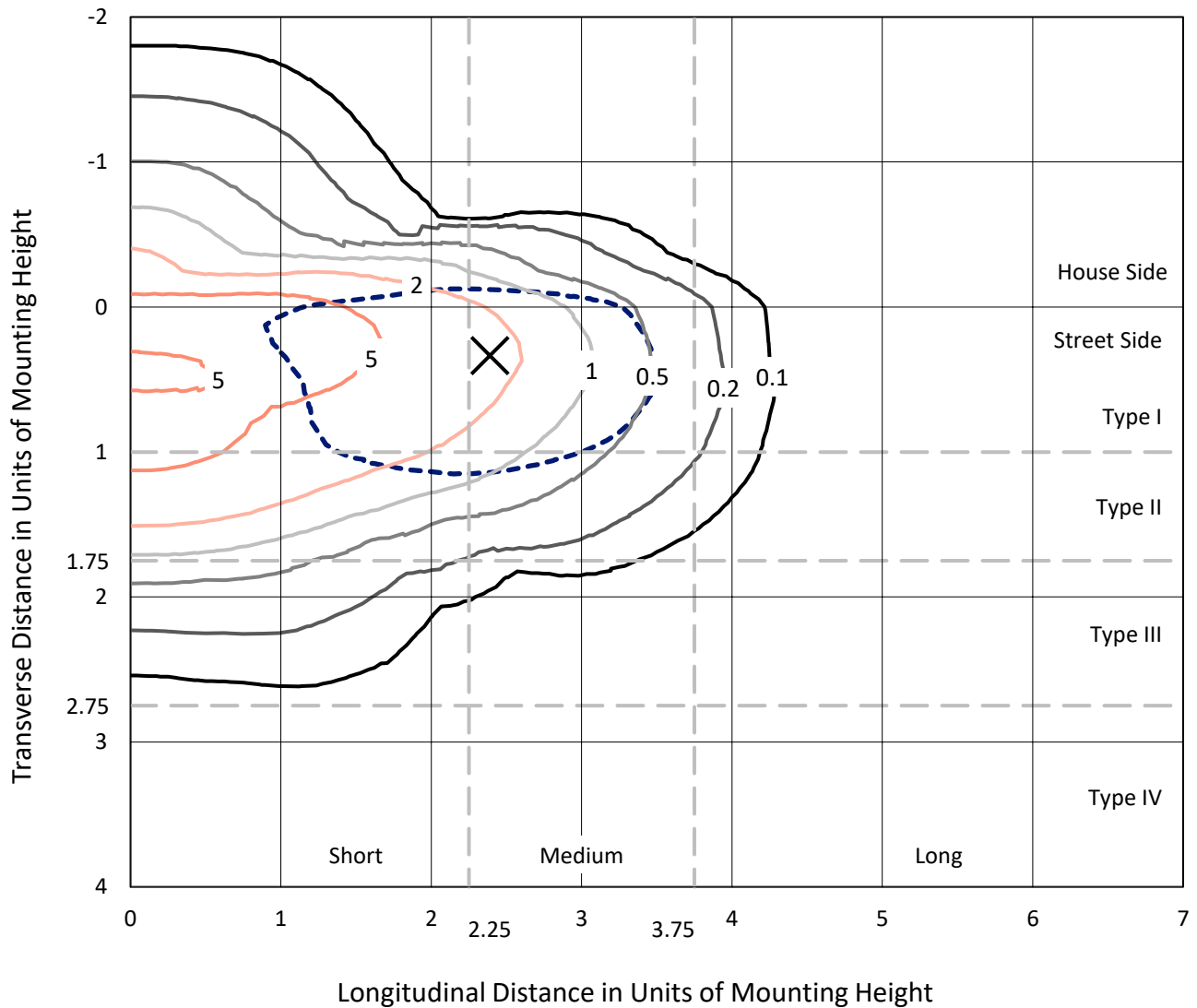
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

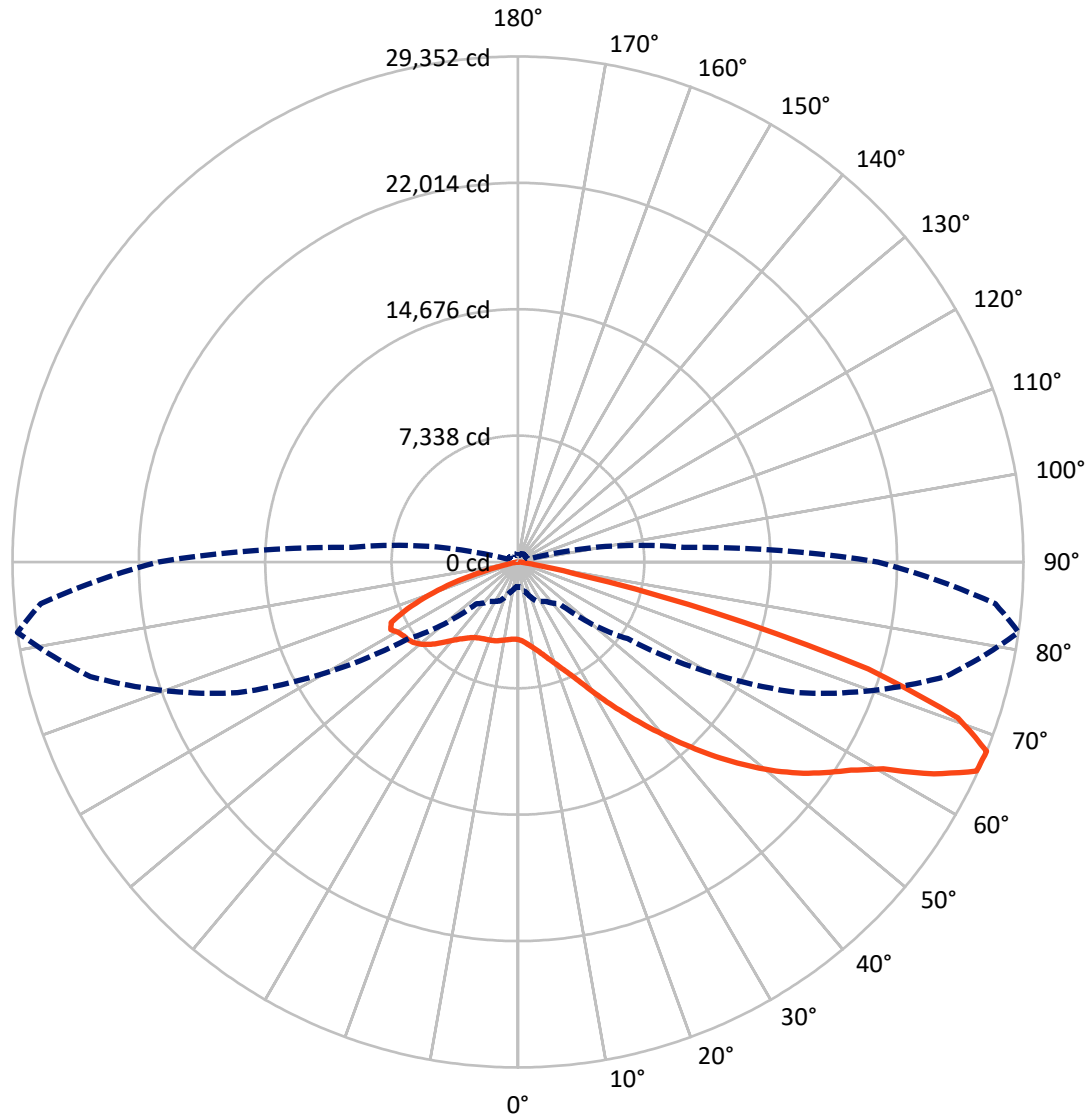
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	4927.0	0.0	4927.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	22273.0	0.0	22273.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	27200.0	0.0	27200.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.5	1.5
10°-20°	1043.2	3.8
20°-30°	1670.9	6.1
30°-40°	2954.7	10.9
40°-50°	5177.0	19.0
50°-60°	6904.6	25.4
60°-70°	6427.8	23.6
70°-80°	2467.0	9.1
80°-90°	153.2	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°	27200.0	100.0
0°-180°	27200.0	100.0

Coefficient of Utilization



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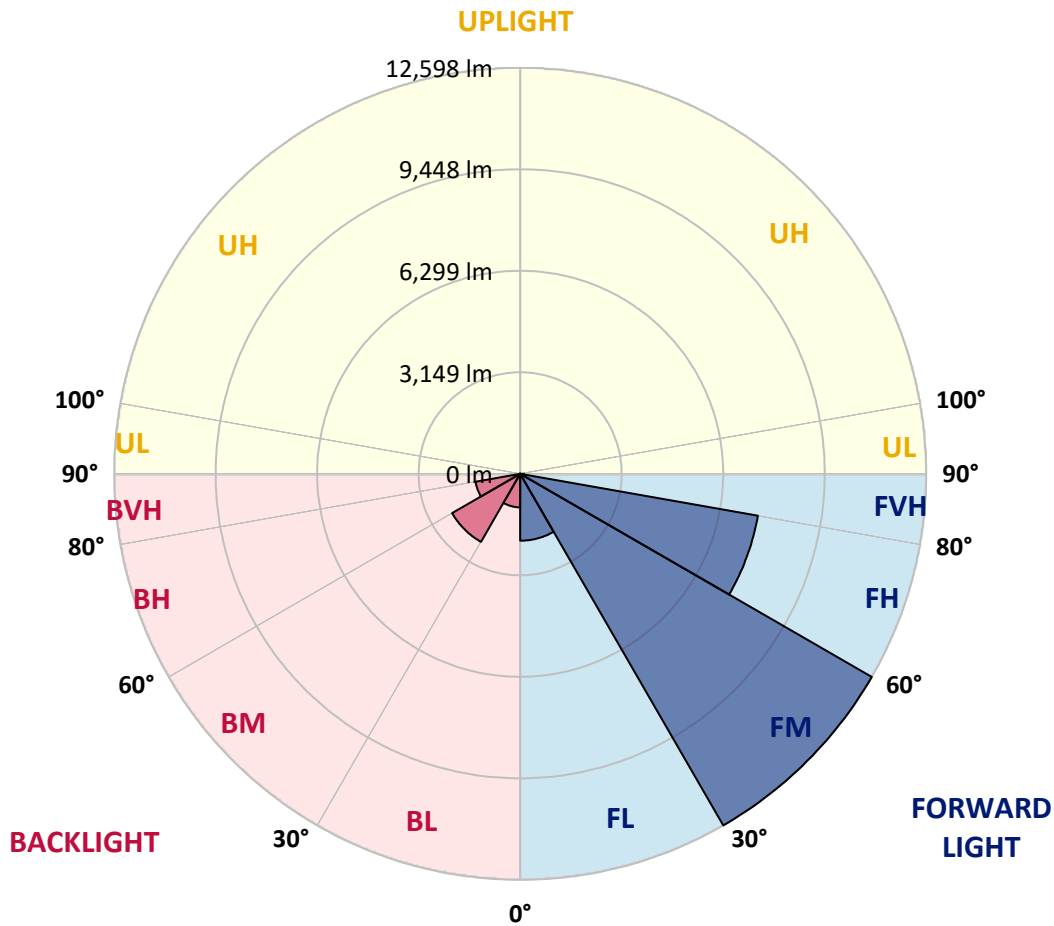
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2075.1	7.6			
FM (30°-60°)	12597.9	46.3			
FH (60°-80°)	7488.6	27.5			G3/7500
FVH (80°-90°)	111.4	0.4			G2/225
BL (0°-30°)	1040.6	3.8	B3/2500		
BM (30°-60°)	2438.4	9.0	B2/2500		
BH (60°-80°)	1406.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	41.8	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1
2.5°	4762.7	4790.1	4774.4	4766.6	4752.9	4733.3	4717.6	4668.7	4617.7	4584.5
5°	4858.6	4886.0	4884.1	4891.9	4901.7	4907.6	4903.7	4848.8	4776.4	4719.6
7.5°	4776.4	4807.7	4833.2	4872.3	4940.9	5013.3	5048.6	5036.8	4962.4	4884.1
10°	4543.3	4576.6	4637.3	4729.4	4874.3	5031.0	5162.2	5222.9	5175.9	5089.7
12.5°	4116.4	4149.7	4269.2	4468.9	4711.7	4984.0	5234.6	5397.2	5408.9	5322.7
15°	3636.6	3669.9	3797.2	4047.9	4418.0	4854.7	5273.8	5581.2	5685.0	5610.6
17.5°	3339.0	3368.3	3464.3	3666.0	4051.8	4596.2	5260.1	5777.1	6014.0	5955.3
20°	3248.9	3274.3	3319.4	3460.4	3781.5	4327.9	5170.0	5961.2	6368.5	6335.2
22.5°	3344.8	3368.3	3382.0	3444.7	3646.4	4151.7	5056.4	6149.2	6779.7	6783.7
25°	3566.1	3589.6	3574.0	3613.1	3701.2	4096.8	5013.3	6370.5	7296.7	7339.8
27.5°	3930.4	3932.3	3895.1	3893.2	3906.9	4179.1	5058.4	6607.4	7948.9	8029.2
30°	4660.8	4631.5	4488.5	4333.8	4263.3	4425.8	5183.7	6887.4	8718.5	8861.4
32.5°	5786.9	5743.8	5481.4	5111.2	4739.2	4823.4	5408.9	7206.7	9556.7	9815.2
35°	7008.9	6997.1	6723.0	6172.7	5522.5	5389.3	5775.1	7625.7	10471.2	10882.4
37.5°	8144.7	8138.8	7982.2	7333.9	6542.8	6178.5	6362.6	8174.1	11450.4	12045.7
40°	9182.6	9200.2	9043.6	8463.9	7666.9	7191.0	7161.6	8851.7	12539.2	13312.7
42.5°	10079.5	10099.1	9940.5	9511.6	8777.2	8311.2	8142.7	9682.0	13602.6	14673.8
45°	10688.6	10810.0	10786.5	10443.8	9917.0	9433.3	9321.7	10723.8	14814.8	16117.1
47.5°	10860.9	10972.5	11148.8	11195.8	10874.6	10398.7	10531.9	11979.1	16040.7	17562.3
50°	10435.9	10539.7	10905.9	11393.6	11616.8	11469.9	11708.9	13324.5	17296.0	19003.6
52.5°	9597.8	9703.5	10165.7	10937.3	11847.9	12310.1	12889.7	14650.3	18512.1	20368.6
55°	8385.6	8497.2	9090.6	9964.0	11407.3	12656.7	13874.8	15974.1	19626.4	21596.5
57.5°	6736.7	6818.9	7435.8	8657.8	10298.9	12312.0	14601.3	17419.4	20676.1	22802.8
60°	4390.6	4463.0	5179.8	6542.8	8461.9	11160.5	14746.2	19031.1	22070.4	24371.4
62.5°	2919.9	2968.8	3393.8	4394.5	5959.2	8949.6	13898.3	20317.7	24114.9	27101.3
65°	2003.4	2052.3	2477.3	3174.5	3850.1	5920.0	11460.2	20147.3	25967.5	29269.2
67.5°	1429.6	1470.7	1831.0	2489.0	2786.7	3438.8	7768.7	17969.6	25701.1	29351.5
70°	1024.2	1047.7	1345.4	1938.7	2214.9	2066.0	4320.1	13743.6	22503.2	27103.3
72.5°	716.7	724.6	934.1	1476.6	1784.0	1507.9	2056.2	9163.0	17019.9	21273.3
75°	485.7	495.5	628.6	1083.0	1431.5	1151.5	1088.8	4913.5	9991.4	11775.4
77.5°	297.7	301.6	405.4	740.2	1071.2	877.3	701.1	2081.7	3865.7	3795.2
80°	168.4	168.4	258.5	460.2	730.5	566.0	491.5	885.2	1224.0	1075.1
82.5°	94.0	96.0	188.0	285.9	483.7	334.9	270.2	409.3	528.7	468.0
85°	39.2	43.1	115.5	135.1	231.1	166.5	109.7	172.3	195.8	174.3
87.5°	3.9	5.9	35.2	25.5	27.4	33.3	15.7	33.3	27.4	27.4
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°
4506.1	0°	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1	4506.1
4572.7	2.5°	4535.5	4506.1	4431.7	4345.5	4232.0	4177.1	4102.7	4051.8	4008.7	4012.6
4686.3	5°	4623.6	4549.2	4382.7	4175.2	3916.7	3732.6	3536.7	3401.6	3292.0	3268.5
4843.0	7.5°	4745.0	4627.5	4335.7	3961.7	3525.0	3194.0	2898.3	2708.4	2573.2	2530.2
5032.9	10°	4901.7	4731.3	4275.0	3693.4	3064.8	2643.7	2326.5	2177.7	2085.6	2054.3
5256.2	12.5°	5083.8	4850.8	4194.7	3366.4	2590.9	2185.5	1983.8	1909.4	1880.0	1870.2
5530.3	15°	5313.0	4999.6	4073.3	2978.6	2189.4	1905.5	1819.3	1809.5	1813.4	1809.5
5859.3	17.5°	5585.2	5162.2	3875.5	2579.1	1919.2	1762.5	1731.2	1739.0	1748.8	1746.8
6227.5	20°	5882.8	5322.7	3622.9	2224.7	1735.1	1660.7	1643.0	1650.9	1658.7	1654.8
6652.5	22.5°	6221.6	5495.1	3342.9	1948.5	1611.7	1566.7	1547.1	1549.0	1549.0	1541.2
7191.0	25°	6627.0	5685.0	3049.1	1752.7	1517.7	1482.5	1459.0	1451.1	1439.4	1415.9
7845.1	27.5°	7110.7	5886.7	2767.1	1615.6	1443.3	1410.0	1382.6	1363.0	1333.6	1294.5
8630.4	30°	7655.1	6131.5	2528.2	1529.5	1384.5	1351.2	1319.9	1290.5	1247.5	1198.5
9533.2	32.5°	8295.5	6394.0	2353.9	1472.7	1331.7	1296.4	1259.2	1224.0	1177.0	1128.0
10547.6	35°	9059.2	6711.2	2252.1	1433.5	1290.5	1243.5	1202.4	1163.2	1128.0	1084.9
11650.1	37.5°	9887.6	7048.0	2220.7	1413.9	1263.1	1190.7	1143.7	1116.2	1112.3	1086.9
12842.7	40°	10794.3	7447.5	2244.2	1402.2	1233.7	1139.7	1088.8	1083.0	1092.7	1047.7
14117.6	42.5°	11753.9	7921.4	2283.4	1388.5	1192.6	1088.8	1039.9	1039.9	1032.0	969.4
15464.9	45°	12791.8	8467.8	2322.6	1355.2	1143.7	1037.9	1000.7	987.0	953.7	893.0
16820.1	47.5°	13837.6	9024.0	2352.0	1294.5	1084.9	994.8	961.5	930.2	881.2	826.4
18149.8	50°	14830.4	9523.4	2320.6	1204.4	1018.3	953.7	918.5	875.4	822.5	785.3
19409.0	52.5°	15717.6	9956.2	2187.5	1098.6	947.8	910.6	879.3	834.2	791.2	752.0
20544.8	55°	16489.1	10306.7	1952.5	998.7	885.2	873.4	842.1	785.3	726.5	693.2
21670.9	57.5°	17229.4	10573.0	1658.7	916.5	828.4	832.3	785.3	734.4	679.5	644.3
23188.6	60°	18214.4	10929.4	1361.0	840.1	767.7	779.4	728.5	691.3	622.7	577.7
25791.2	62.5°	19788.9	11483.7	1081.0	746.1	697.2	701.1	679.5	634.5	552.2	499.4
27720.2	65°	21038.3	11280.0	851.9	644.3	616.9	622.7	622.7	573.8	485.7	425.0
27824.0	67.5°	20897.3	9658.5	679.5	544.4	540.5	544.4	558.1	517.0	430.8	381.9
25705.1	70°	19250.4	7682.5	544.4	452.4	470.0	460.2	499.4	472.0	387.7	338.8
19928.0	72.5°	15707.8	5534.2	415.2	374.0	360.3	376.0	450.4	425.0	323.1	268.3
10555.4	75°	9178.7	2953.2	309.4	295.7	260.5	313.3	399.5	362.3	246.7	197.8
3235.2	77.5°	2988.4	1030.1	227.2	217.4	193.9	252.6	340.7	305.5	201.7	156.7
947.8	80°	801.0	311.4	154.7	143.0	125.3	188.0	270.2	242.8	144.9	101.8
407.3	82.5°	321.2	131.2	90.1	80.3	68.5	129.2	213.5	195.8	107.7	64.6
127.3	85°	103.8	43.1	33.3	25.5	31.3	80.3	127.3	133.2	76.4	33.3
19.6	87.5°	13.7	5.9	5.9	7.8	5.9	13.7	39.2	37.2	21.5	3.9
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>
4506.1
3973.5
3215.6
2487.1
2030.8
1864.3
1807.5
1742.9
1652.8
1537.3
1412.0
1290.5
1194.6
1130.0
1081.0
1084.9
1049.7
969.4
891.0
824.5
779.4
748.1
689.3
640.4
571.8
495.5
419.1
374.0
332.9
262.4
191.9
150.8
99.9
64.6
25.5
0.0
0.0

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