

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: P951859

Luminaire Tested: **GALN-SB5D-850-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951859
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-SB5D-850-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 900mA 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: 37577 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

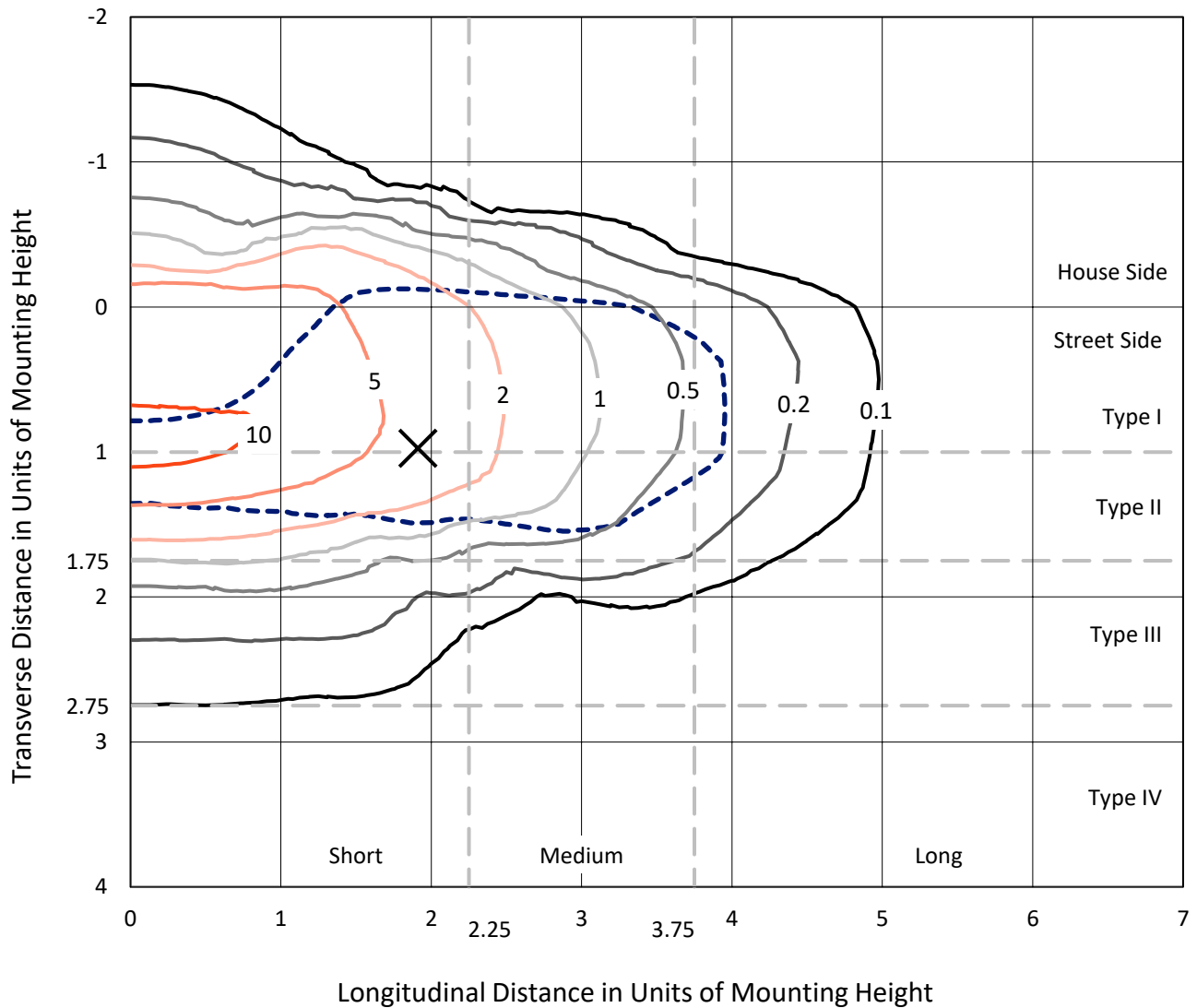
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

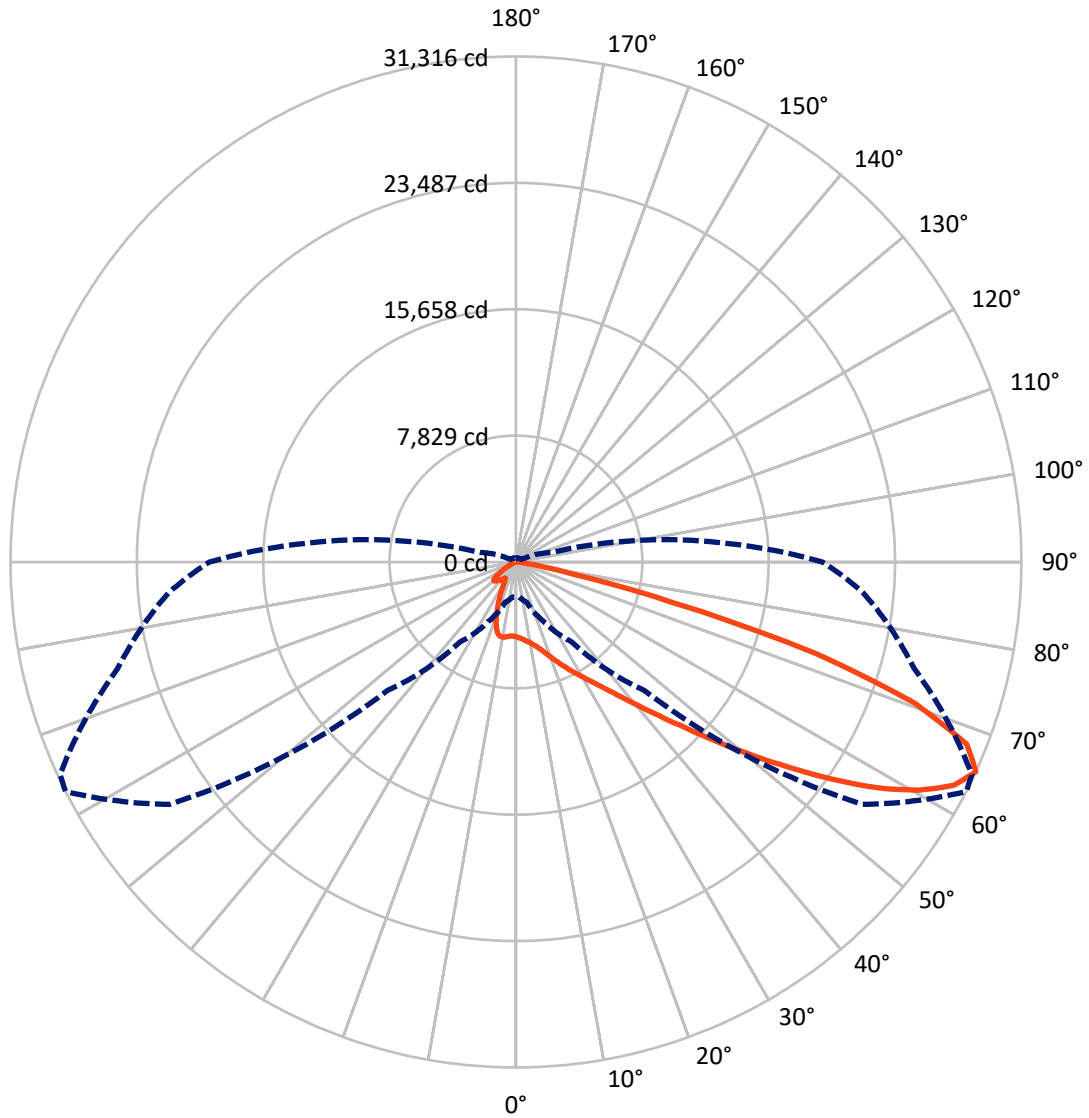
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	5523.5	0.0	5523.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	32053.5	0.0	32053.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	37577.0	0.0	37577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.0	1.2
10°-20°	1212.4	3.2
20°-30°	2111.1	5.6
30°-40°	3805.0	10.1
40°-50°	7546.6	20.1
50°-60°	10279.7	27.4
60°-70°	8205.2	21.8
70°-80°	3713.0	9.9
80°-90°	266.9	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°	37577.0	100.0
0°-180°	37577.0	100.0

Coefficient of Utilization



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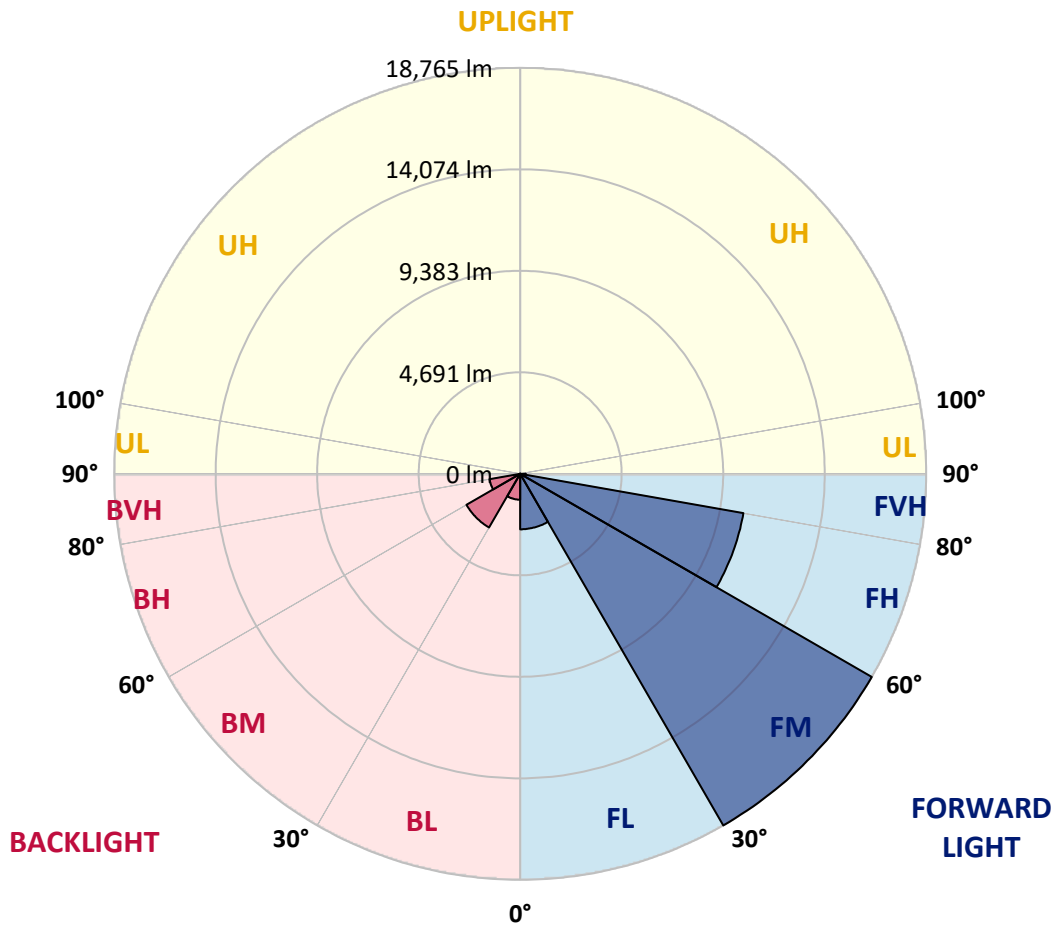
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2565.1	6.8			
FM (30°-60°)	18765.0	49.9			
FH (60°-80°)	10476.3	27.9			G4/12000
FVH (80°-90°)	247.1	0.7			G3/500
BL (0°-30°)	1195.4	3.2	B3/2500		
BM (30°-60°)	2866.4	7.6	B3/5000		
BH (60°-80°)	1442.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.8	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°	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7
2.5°	4746.3	4733.4	4751.5	4743.7	4738.5	4728.2	4723.0	4717.9	4707.5	4699.8
5°	4759.2	4751.5	4769.6	4785.1	4800.6	4816.1	4823.8	4834.2	4823.8	4803.2
7.5°	4650.6	4645.5	4684.2	4730.8	4800.6	4860.0	4924.7	4960.9	4963.4	4955.7
10°	4642.9	4630.0	4668.7	4725.6	4816.1	4922.1	5035.8	5113.4	5123.7	5157.3
12.5°	4764.4	4751.5	4805.7	4867.8	4960.9	5072.0	5211.6	5320.2	5335.7	5382.2
15°	4968.6	4950.5	5012.6	5092.7	5211.6	5338.3	5485.6	5583.9	5596.8	5653.7
17.5°	5206.4	5188.3	5260.7	5346.0	5475.3	5648.5	5819.1	5927.7	5943.2	5979.4
20°	5511.5	5488.2	5545.1	5622.6	5759.7	5966.5	6170.7	6325.8	6323.2	6323.2
22.5°	5865.6	5829.5	5878.6	5940.6	6069.9	6320.6	6592.1	6775.6	6775.6	6703.2
25°	6245.7	6209.5	6263.8	6320.6	6434.4	6718.7	7036.7	7264.2	7274.5	7150.5
27.5°	6721.3	6674.8	6716.2	6783.4	6850.6	7140.1	7517.5	7781.2	7786.4	7595.1
30°	7636.5	7504.6	7375.4	7303.0	7334.0	7620.9	8024.2	8316.3	8342.2	8078.5
32.5°	9311.6	9285.8	8830.8	8236.2	7926.0	8138.0	8590.4	8941.9	8957.5	8618.8
35°	11914.8	11883.8	11152.2	10019.9	9009.2	8830.8	9278.0	9694.2	9683.9	9301.3
37.5°	15022.2	14993.7	14029.5	12514.6	10878.2	9877.8	10164.7	10601.6	10666.2	10164.7
40°	17677.1	17571.1	16961.0	15500.4	13359.9	11615.0	11426.2	11715.8	11783.0	11188.4
42.5°	19688.3	19597.8	19287.6	18375.1	16363.8	14184.6	12912.7	13023.9	13098.8	12385.3
45°	20730.1	20709.4	20833.5	20748.2	19424.6	17338.4	15037.7	14574.9	14603.4	13711.5
47.5°	20877.5	20867.1	21433.3	22234.6	22056.3	20895.6	17765.0	16508.6	16407.8	15208.3
50°	20008.9	19988.2	21073.9	22575.9	23814.2	23884.0	20861.9	18687.9	18465.5	16756.8
52.5°	17235.0	17229.8	19013.6	21513.4	24432.0	26500.1	23922.7	21081.7	20709.4	18395.7
55°	13261.7	13357.3	15402.2	18357.0	23304.9	27759.1	26670.7	23739.2	23167.9	20045.0
57.5°	9394.3	9533.9	11555.5	14187.2	19809.8	27014.5	28529.4	26401.9	25786.6	21689.2
60°	5046.2	5170.2	7194.4	10335.3	14737.8	24238.1	29509.2	28713.0	28131.3	23250.6
62.5°	3006.5	3047.9	3885.4	6672.2	9968.2	18517.2	29093.0	30473.4	29995.2	24561.3
65°	2158.6	2166.3	2587.7	4074.2	6051.8	11250.5	26174.4	31316.2	31168.8	25548.8
67.5°	1817.3	1812.2	1988.0	2706.6	4123.3	5635.6	20060.6	30124.4	30750.0	26174.4
70°	1558.8	1566.6	1773.4	1982.8	3099.6	3190.0	9973.4	26228.7	27562.6	26339.8
72.5°	1160.7	1186.6	1377.9	1807.0	2339.5	2194.8	3443.4	19447.9	21859.8	24817.2
75°	819.5	832.4	969.4	1520.1	1745.0	1597.6	1757.9	10053.5	13145.4	19026.5
77.5°	630.8	654.0	734.2	1062.5	1719.1	1121.9	1075.4	3479.6	5346.0	11493.5
80°	341.2	382.6	530.0	767.8	1207.3	793.6	532.5	1385.6	1812.2	5374.5
82.5°	175.8	196.5	369.7	553.2	687.6	692.8	263.7	576.5	747.1	1659.6
85°	69.8	85.3	248.2	305.0	354.2	341.2	118.9	232.7	268.9	460.2
87.5°	15.5	25.9	90.5	69.8	67.2	72.4	28.4	54.3	51.7	54.3
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°
4637.7	0°	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7	4637.7
4668.7	2.5°	4666.1	4655.8	4627.4	4596.3	4560.2	4539.5	4526.6	4524.0	4505.9	4492.9
4772.1	5°	4743.7	4733.4	4679.1	4614.4	4544.6	4490.4	4438.7	4392.1	4324.9	4312.0
4922.1	7.5°	4898.8	4870.4	4782.5	4694.6	4562.7	4405.1	4213.8	3994.0	3797.5	3738.1
5121.1	10°	5090.1	5051.3	4940.2	4785.1	4492.9	4063.8	3601.1	3171.9	2830.7	2735.1
5356.4	12.5°	5307.3	5273.7	5126.3	4839.4	4200.8	3422.7	2714.4	2181.8	1850.9	1768.2
5607.1	15°	5565.8	5516.7	5312.4	4756.6	3678.6	2600.6	1863.9	1548.5	1429.6	1414.1
5894.1	17.5°	5839.8	5759.7	5477.9	4459.3	2975.5	1848.4	1439.9	1349.4	1297.7	1282.2
6183.6	20°	6090.6	5987.1	5576.1	4009.5	2223.2	1439.9	1290.0	1230.5	1184.0	1165.9
6473.1	22.5°	6341.3	6194.0	5576.1	3396.9	1667.4	1277.1	1184.0	1129.7	1075.4	1052.1
6783.4	25°	6602.4	6405.9	5477.9	2714.4	1341.7	1171.1	1083.2	1023.7	977.2	948.7
7078.1	27.5°	6855.7	6584.3	5253.0	2068.1	1194.3	1078.0	990.1	933.2	889.3	868.6
7398.6	30°	7096.2	6760.1	4937.6	1569.2	1098.7	987.5	904.8	855.7	811.7	791.0
7814.8	32.5°	7421.9	6982.4	4601.5	1287.4	1016.0	902.2	827.2	780.7	741.9	726.4
8355.1	35°	7874.3	7310.7	4312.0	1264.1	946.2	832.4	757.4	713.5	674.7	661.8
9053.1	37.5°	8515.4	7840.7	4159.5	1419.2	889.3	770.4	700.6	654.0	617.8	607.5
9939.8	40°	9306.4	8559.3	4242.2	1574.3	850.5	716.1	648.9	602.3	571.3	558.4
10958.3	42.5°	10244.8	9446.0	4699.8	1693.3	824.7	669.5	599.7	548.0	527.4	522.2
12113.9	45°	11322.8	10420.6	5400.3	1819.9	783.3	625.6	550.6	511.9	496.3	493.8
13370.3	47.5°	12548.2	11490.9	6212.1	1977.6	741.9	584.2	511.9	486.0	473.1	467.9
14680.9	50°	13763.2	12568.9	7047.0	2065.5	708.3	545.5	480.8	460.2	449.8	447.2
16066.5	52.5°	15035.1	13677.9	7721.8	1982.8	679.9	514.4	455.0	439.5	429.1	426.5
17343.6	55°	16247.5	14574.9	7838.1	1682.9	623.0	483.4	426.5	418.8	405.9	405.9
18638.7	57.5°	17291.9	15024.7	7016.0	1235.7	566.1	436.9	398.1	390.4	380.0	377.4
19807.2	60°	18251.0	14895.5	5415.8	832.4	504.1	390.4	361.9	356.7	346.4	333.5
20823.2	62.5°	18791.3	14326.8	3704.5	542.9	442.1	341.2	320.6	318.0	294.7	268.9
21575.4	65°	18995.5	13158.3	2311.1	395.5	369.7	292.1	276.6	271.4	237.8	209.4
22002.0	67.5°	18817.1	11234.9	1165.9	312.8	292.1	243.0	227.5	227.5	204.2	178.4
21976.1	70°	18103.6	8422.3	491.2	250.8	224.9	186.1	186.1	196.5	173.2	144.8
20836.1	72.5°	16555.1	5666.6	261.1	191.3	168.0	131.8	152.5	160.3	137.0	108.6
17054.1	75°	13160.9	3456.3	181.0	142.2	106.0	93.1	116.3	121.5	93.1	72.4
11692.5	77.5°	9001.4	1985.4	121.5	90.5	67.2	54.3	80.1	75.0	49.1	33.6
4508.5	80°	3952.7	827.2	69.8	41.4	25.9	20.7	28.4	20.7	15.5	10.3
617.8	82.5°	462.7	193.9	25.9	15.5	10.3	5.2	2.6	0.0	0.0	0.0
188.7	85°	95.6	23.3	12.9	5.2	2.6	0.0	0.0	0.0	0.0	0.0
33.6	87.5°	18.1	5.2	2.6	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>
4637.7
4505.9
4306.8
3709.7
2698.9
1745.0
1398.6
1274.5
1155.6
1039.2
938.4
868.6
793.6
726.4
661.8
604.9
555.8
522.2
491.2
467.9
447.2
426.5
403.3
374.8
330.9
263.7
206.8
175.8
142.2
108.6
69.8
36.2
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