

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: P951817

Luminaire Tested: **GALN-SB5D-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951817
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-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 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: 36438 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

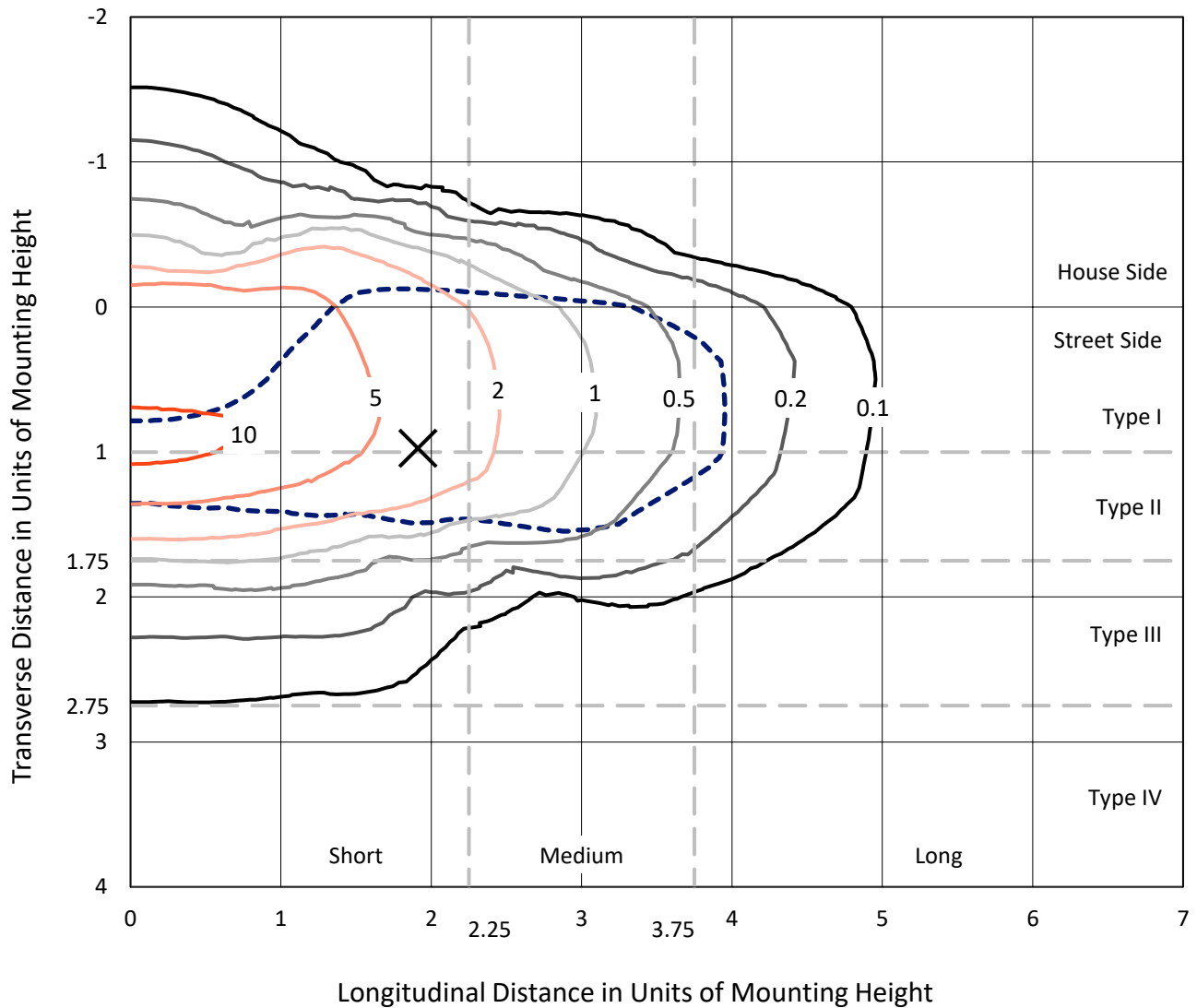
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

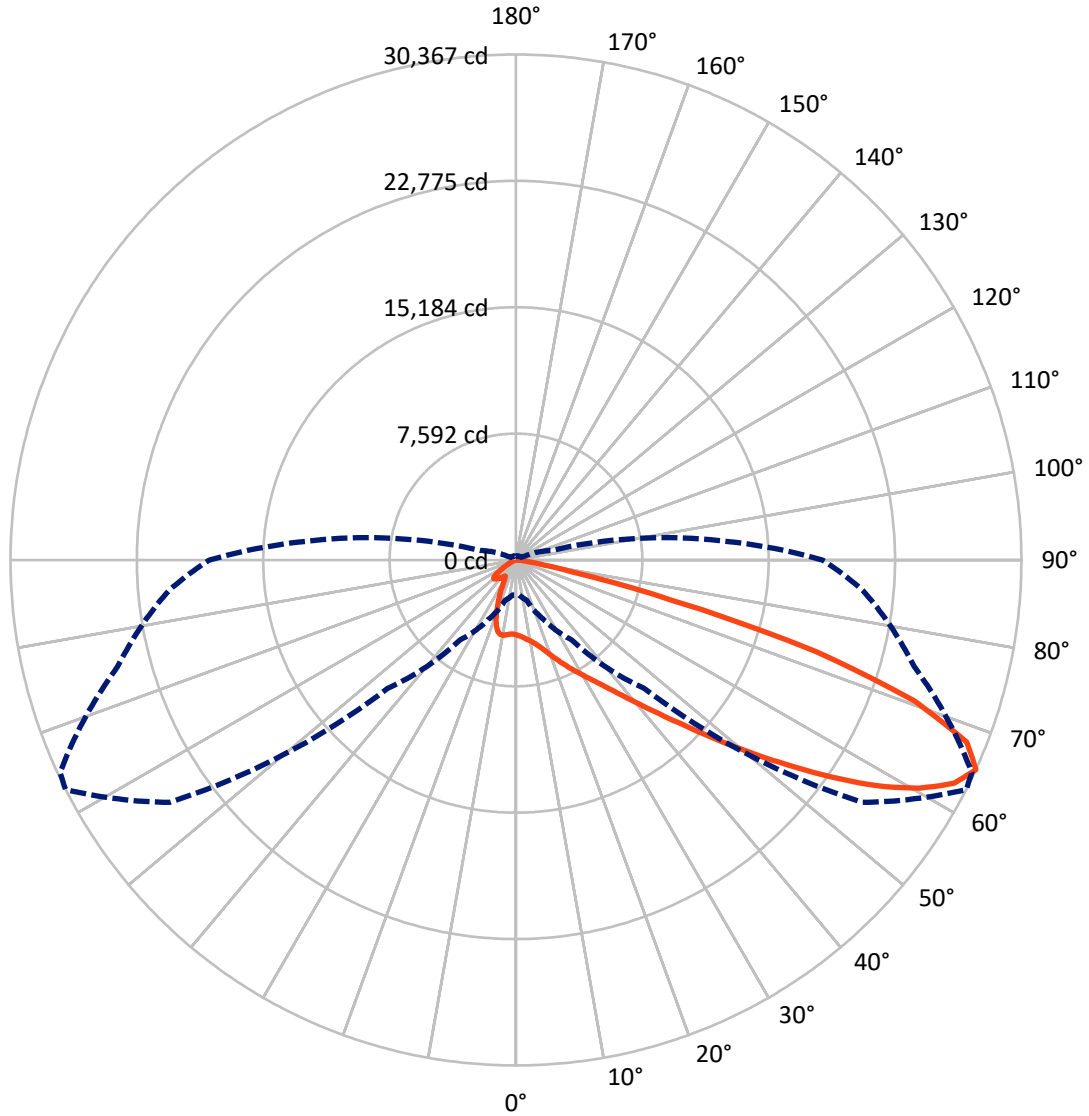
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	5356.1	0.0	5356.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	31081.9	0.0	31081.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	36438.0	0.0	36438.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	1.2
10°-20°	1175.7	3.2
20°-30°	2047.1	5.6
30°-40°	3689.7	10.1
40°-50°	7317.9	20.1
50°-60°	9968.1	27.4
60°-70°	7956.5	21.8
70°-80°	3600.5	9.9
80°-90°	258.8	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°	36438.0	100.0
0°-180°	36438.0	100.0



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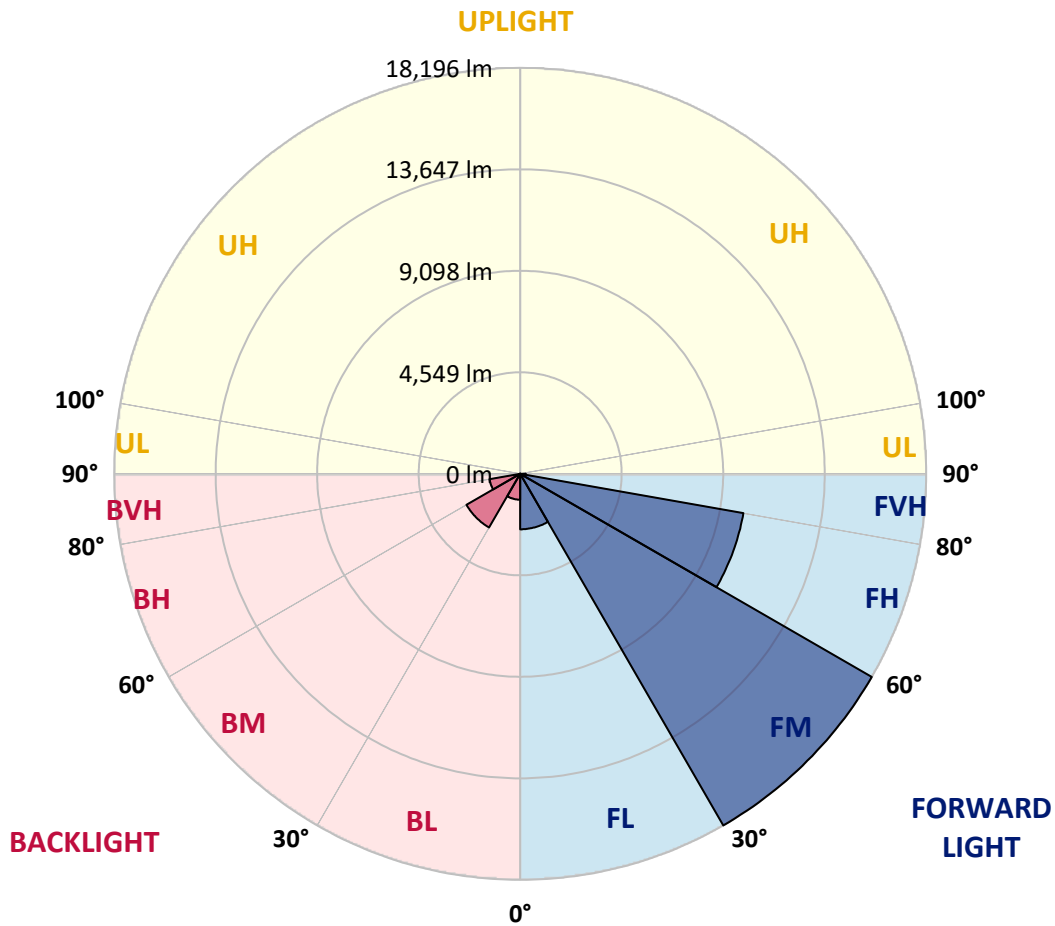
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2487.3	6.8			
FM (30°-60°)	18196.2	49.9			
FH (60°-80°)	10158.7	27.9			G4/12000
FVH (80°-90°)	239.6	0.7			G3/500
BL (0°-30°)	1159.1	3.2	B3/2500		
BM (30°-60°)	2779.5	7.6	B3/5000		
BH (60°-80°)	1398.3	3.8	B3/2500		G3/2500
BVH (80°-90°)	19.2	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°	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1
2.5°	4602.4	4589.9	4607.4	4599.9	4594.9	4584.9	4579.9	4574.8	4564.8	4557.3
5°	4615.0	4607.4	4625.0	4640.0	4655.1	4670.1	4677.6	4687.7	4677.6	4657.6
7.5°	4509.7	4504.7	4542.3	4587.4	4655.1	4712.7	4775.4	4810.5	4813.0	4805.5
10°	4502.2	4489.6	4527.2	4582.4	4670.1	4772.9	4883.2	4958.4	4968.4	5001.0
12.5°	4620.0	4607.4	4660.1	4720.2	4810.5	4918.3	5053.6	5158.9	5174.0	5219.1
15°	4818.0	4800.5	4860.6	4938.3	5053.6	5176.5	5319.4	5414.6	5427.1	5482.3
17.5°	5048.6	5031.1	5101.3	5184.0	5309.3	5477.3	5642.7	5748.0	5763.1	5798.1
20°	5344.4	5321.9	5377.0	5452.2	5585.1	5785.6	5983.6	6134.1	6131.5	6131.5
22.5°	5687.9	5652.8	5700.4	5760.5	5885.9	6129.0	6392.3	6570.2	6570.2	6500.0
25°	6056.3	6021.3	6073.9	6129.0	6239.3	6515.1	6823.4	7044.0	7054.0	6933.7
27.5°	6517.6	6472.5	6512.6	6577.8	6642.9	6923.7	7289.7	7545.4	7550.4	7364.9
30°	7405.0	7277.1	7151.8	7081.6	7111.7	7389.9	7781.0	8064.3	8089.3	7833.6
32.5°	9029.4	9004.3	8563.1	7986.6	7685.7	7891.3	8330.0	8670.9	8685.9	8357.6
35°	11553.7	11523.6	10814.2	9716.2	8736.1	8563.1	8996.8	9400.4	9390.3	9019.3
37.5°	14566.8	14539.2	13604.2	12135.3	10548.5	9578.4	9856.6	10280.2	10342.9	9856.6
40°	17141.3	17038.5	16446.9	15030.6	12955.0	11262.9	11079.9	11360.7	11425.8	10849.3
42.5°	19091.5	19003.8	18703.0	17818.1	15867.8	13754.6	12521.3	12629.1	12701.8	12009.9
45°	20101.8	20081.7	20202.0	20119.3	18835.8	16812.9	14581.9	14133.1	14160.7	13295.9
47.5°	20244.6	20234.6	20783.6	21560.7	21387.7	20262.2	17226.5	16008.2	15910.4	14747.3
50°	19402.4	19382.3	20435.2	21891.6	23092.3	23160.0	20229.6	18121.4	17905.8	16248.9
52.5°	16712.6	16707.6	18437.3	20861.3	23691.4	25696.9	23197.6	20442.7	20081.7	17838.1
55°	12859.7	12952.5	14935.3	17800.5	22598.5	26917.7	25862.3	23019.6	22465.6	19437.5
57.5°	9109.6	9245.0	11205.2	13757.1	19209.3	26195.7	27664.7	25601.6	25005.0	21031.8
60°	4893.2	5013.5	6976.3	10022.0	14291.1	23503.4	28614.7	27842.6	27278.6	22545.9
62.5°	2915.4	2955.5	3767.7	6470.0	9666.1	17956.0	28211.1	29549.8	29086.0	23816.8
65°	2093.1	2100.7	2509.3	3950.7	5868.3	10909.4	25381.0	30367.0	30224.1	24774.4
67.5°	1762.3	1757.2	1927.7	2624.6	3998.3	5464.7	19452.5	29211.3	29818.0	25381.0
70°	1511.6	1519.1	1719.6	1922.7	3005.6	3093.3	9671.1	25433.6	26727.1	25541.4
72.5°	1125.5	1150.6	1336.1	1752.2	2268.6	2128.2	3339.0	18858.4	21197.2	24065.0
75°	794.6	807.2	940.0	1474.0	1692.1	1549.2	1704.6	9748.8	12746.9	18449.8
77.5°	611.7	634.2	711.9	1030.3	1667.0	1087.9	1042.8	3374.1	5184.0	11145.1
80°	330.9	371.0	513.9	744.5	1170.7	769.6	516.4	1343.6	1757.2	5211.6
82.5°	170.5	190.5	358.5	536.4	666.8	671.8	255.7	559.0	724.5	1609.3
85°	67.7	82.7	240.6	295.8	343.4	330.9	115.3	225.6	260.7	446.2
87.5°	15.0	25.1	87.7	67.7	65.2	70.2	27.6	52.6	50.1	52.6
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°
4497.1	0°	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1	4497.1
4527.2	2.5°	4524.7	4514.7	4487.1	4457.0	4421.9	4401.9	4389.3	4386.8	4369.3	4356.8
4627.5	5°	4599.9	4589.9	4537.2	4474.6	4406.9	4354.3	4304.1	4259.0	4193.8	4181.3
4772.9	7.5°	4750.3	4722.7	4637.5	4552.3	4424.4	4271.5	4086.0	3873.0	3682.4	3624.8
4965.9	10°	4935.8	4898.2	4790.4	4640.0	4356.8	3940.6	3491.9	3075.8	2744.9	2652.2
5194.0	12.5°	5146.4	5113.8	4970.9	4692.7	4073.5	3319.0	2632.1	2115.7	1794.8	1714.6
5437.2	15°	5397.1	5349.4	5151.4	4612.4	3567.1	2521.8	1807.4	1501.6	1386.2	1371.2
5715.4	17.5°	5662.8	5585.1	5311.8	4324.2	2885.3	1792.3	1396.3	1308.5	1258.4	1243.4
5996.2	20°	5905.9	5805.7	5407.1	3888.0	2155.8	1396.3	1250.9	1193.2	1148.1	1130.6
6276.9	22.5°	6149.1	6006.2	5407.1	3293.9	1616.9	1238.3	1148.1	1095.5	1042.8	1020.3
6577.8	25°	6402.3	6211.8	5311.8	2632.1	1301.0	1135.6	1050.3	992.7	947.6	920.0
6863.5	27.5°	6647.9	6384.7	5093.7	2005.4	1158.1	1045.3	960.1	904.9	862.3	842.3
7174.4	30°	6881.1	6555.2	4787.9	1521.6	1065.4	957.6	877.4	829.7	787.1	767.1
7578.0	32.5°	7196.9	6770.8	4462.0	1248.4	985.2	874.9	802.2	757.0	719.4	704.4
8101.9	35°	7635.6	7089.1	4181.3	1225.8	917.5	807.2	734.5	691.9	654.3	641.7
8778.7	37.5°	8257.3	7603.0	4033.4	1376.2	862.3	747.0	679.3	634.2	599.1	589.1
9638.5	40°	9024.4	8299.9	4113.6	1526.6	824.7	694.4	629.2	584.1	554.0	541.5
10626.2	42.5°	9934.3	9159.7	4557.3	1641.9	799.7	649.3	581.6	531.4	511.4	506.4
11746.7	45°	10979.6	10104.8	5236.6	1764.8	759.6	606.6	533.9	496.3	481.3	478.8
12965.0	47.5°	12167.8	11142.6	6023.8	1917.7	719.4	566.5	496.3	471.3	458.7	453.7
14235.9	50°	13346.0	12187.9	6833.4	2002.9	686.9	528.9	466.3	446.2	436.2	433.7
15579.5	52.5°	14579.3	13263.3	7487.7	1922.7	659.3	498.8	441.2	426.2	416.1	413.6
16817.9	55°	15755.0	14133.1	7600.5	1631.9	604.1	468.8	413.6	406.1	393.6	393.6
18073.8	57.5°	16767.8	14569.3	6803.4	1198.2	549.0	423.6	386.0	378.5	368.5	366.0
19206.8	60°	17697.8	14444.0	5251.7	807.2	488.8	378.5	350.9	345.9	335.9	323.4
20192.0	62.5°	18221.7	13892.5	3592.2	526.4	428.7	330.9	310.8	308.3	285.8	260.7
20921.5	65°	18419.7	12759.4	2241.0	383.5	358.5	283.3	268.2	263.2	230.6	203.0
21335.1	67.5°	18246.7	10894.4	1130.6	303.3	283.3	235.6	220.6	220.6	198.0	173.0
21310.0	70°	17554.9	8167.0	476.3	243.2	218.1	180.5	180.5	190.5	168.0	140.4
20204.5	72.5°	16053.3	5494.8	253.2	185.5	162.9	127.8	147.9	155.4	132.9	105.3
16537.1	75°	12761.9	3351.5	175.5	137.9	102.8	90.2	112.8	117.8	90.2	70.2
11338.1	77.5°	8728.6	1925.2	117.8	87.7	65.2	52.6	77.7	72.7	47.6	32.6
4371.8	80°	3832.8	802.2	67.7	40.1	25.1	20.1	27.6	20.1	15.0	10.0
599.1	82.5°	448.7	188.0	25.1	15.0	10.0	5.0	2.5	0.0	0.0	0.0
183.0	85°	92.8	22.6	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
32.6	87.5°	17.5	5.0	2.5	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>
4497.1
4369.3
4176.3
3597.2
2617.1
1692.1
1356.2
1235.8
1120.5
1007.7
910.0
842.3
769.6
704.4
641.7
586.6
539.0
506.4
476.3
453.7
433.7
413.6
391.1
363.5
320.9
255.7
200.5
170.5
137.9
105.3
67.7
35.1
10.0
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