

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: P956815

Luminaire Tested: **GALN-SB9B-835-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956815
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-SB9B-835-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 450mA 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: 36357 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

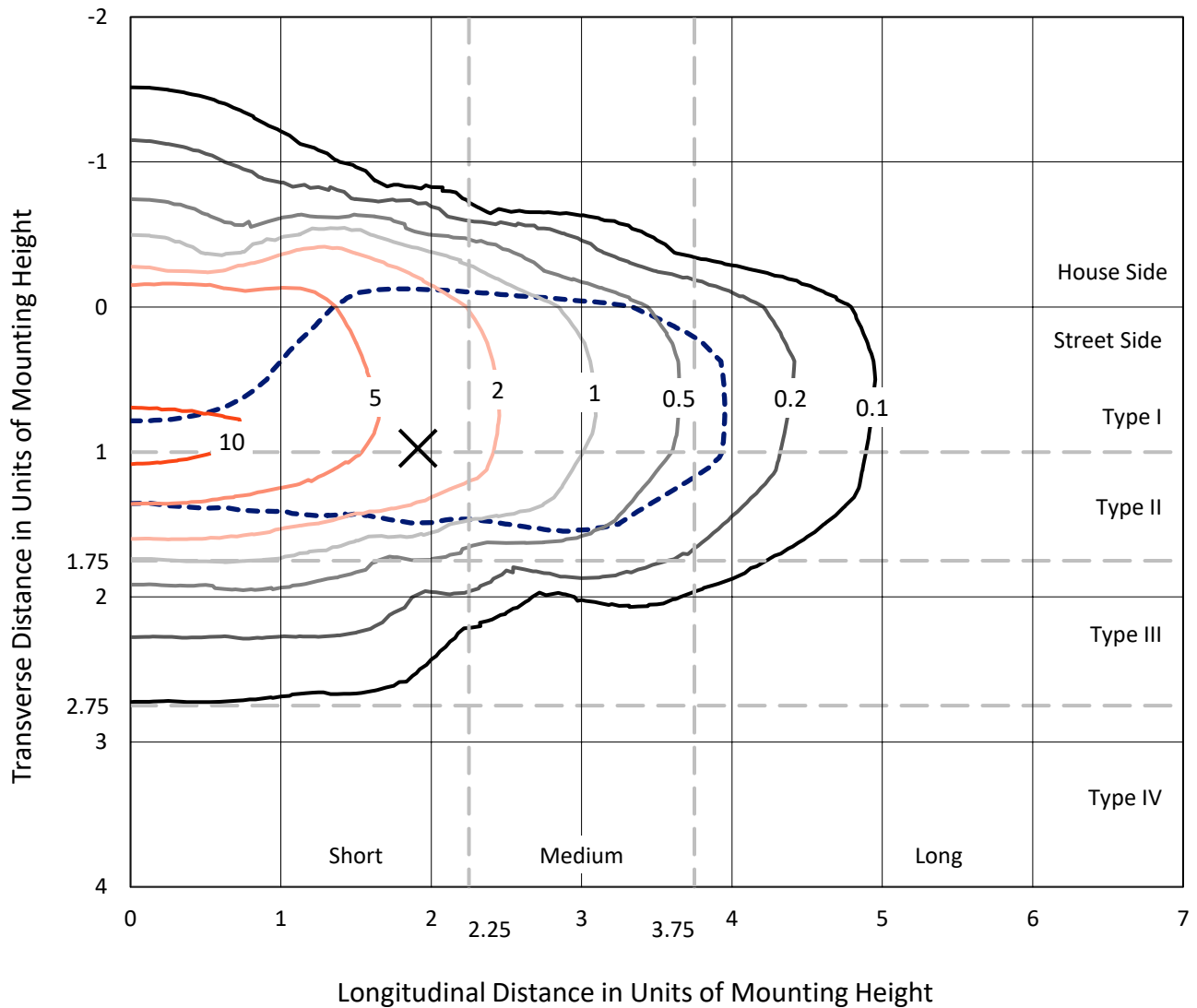
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

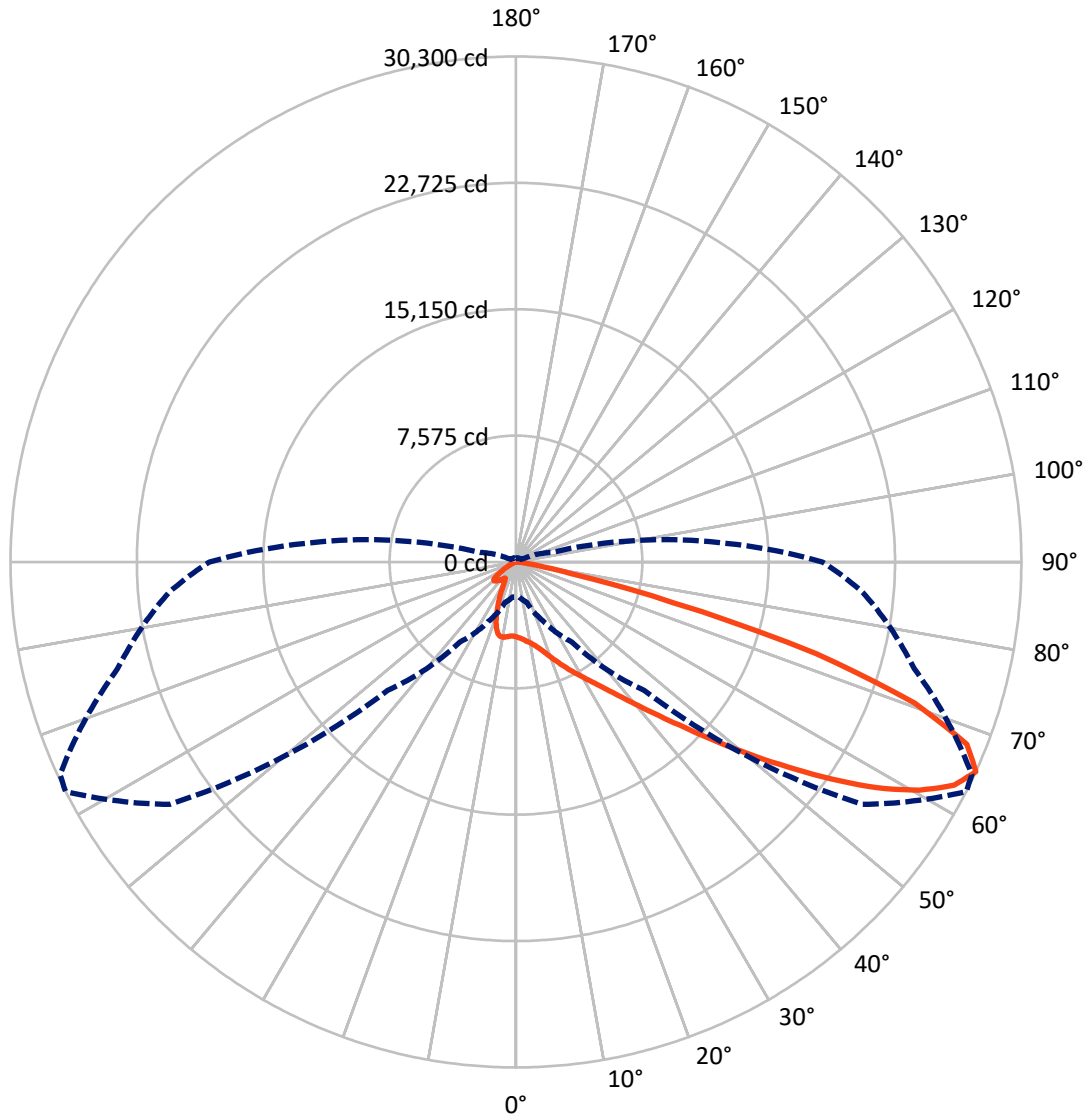
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P956815
CATALOG NUMBER: GALN-SB9B-835-U-T2U-HSS

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	5344.2	0.0	5344.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	31012.8	0.0	31012.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	36357.0	0.0	36357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.8	1.2
10°-20°	1173.0	3.2
20°-30°	2042.6	5.6
30°-40°	3681.5	10.1
40°-50°	7301.6	20.1
50°-60°	9946.0	27.4
60°-70°	7938.8	21.8
70°-80°	3592.5	9.9
80°-90°	258.2	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°	36357.0	100.0
0°-180°	36357.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956815

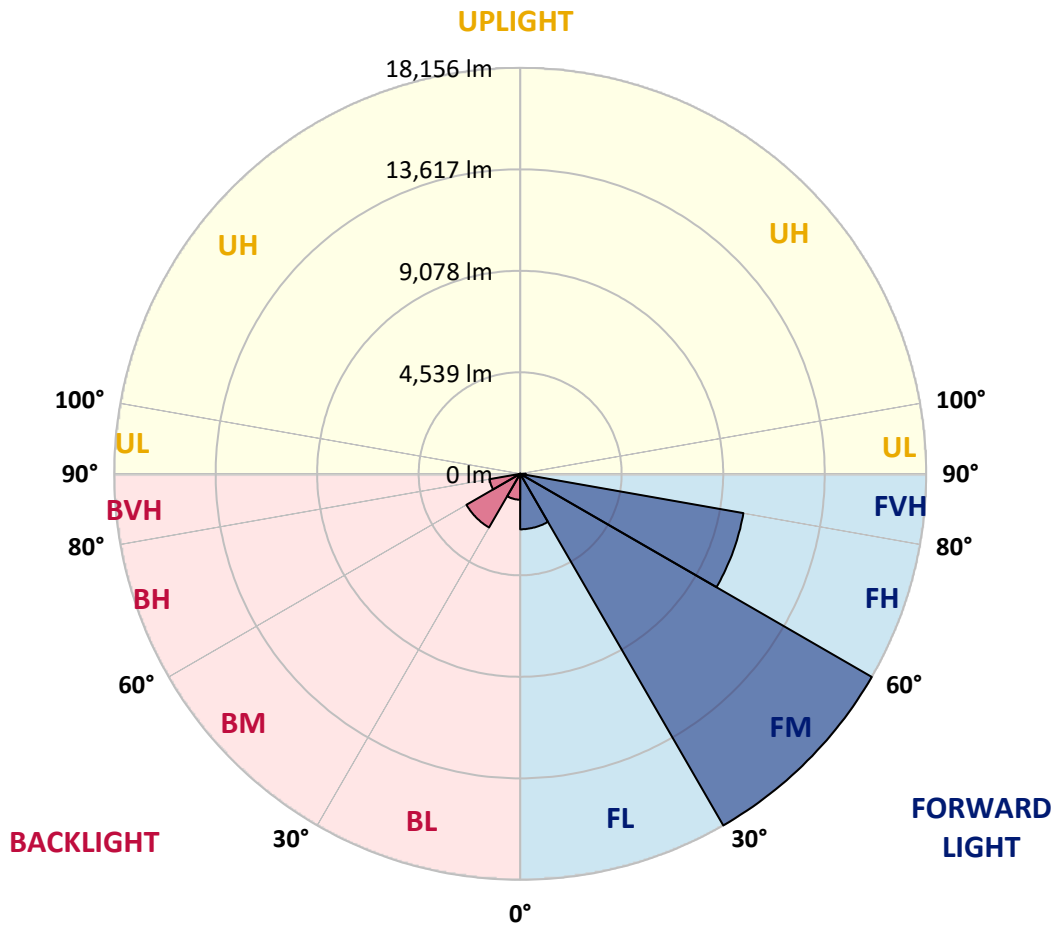
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.8	6.8			
FM (30°-60°)	18155.8	49.9			
FH (60°-80°)	10136.2	27.9			G4/12000
FVH (80°-90°)	239.1	0.7			G3/500
BL (0°-30°)	1156.6	3.2	B3/2500		
BM (30°-60°)	2773.3	7.6	B3/5000		
BH (60°-80°)	1395.2	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



REPORT NUMBER: P956815
 CATALOG NUMBER: GALN-SB9B-835-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1
2.5°	4592.2	4579.7	4597.2	4589.7	4584.7	4574.7	4569.7	4564.7	4554.7	4547.2
5°	4604.7	4597.2	4614.7	4629.7	4644.7	4659.7	4667.2	4677.2	4667.2	4647.2
7.5°	4499.6	4494.6	4532.2	4577.2	4644.7	4702.2	4764.8	4799.8	4802.3	4794.8
10°	4492.1	4479.6	4517.2	4572.2	4659.7	4762.3	4872.3	4947.4	4957.4	4989.9
12.5°	4609.7	4597.2	4649.7	4709.7	4799.8	4907.3	5042.4	5147.5	5162.5	5207.5
15°	4807.3	4789.8	4849.8	4927.4	5042.4	5165.0	5307.5	5402.6	5415.1	5470.1
17.5°	5037.4	5019.9	5089.9	5172.5	5297.5	5465.1	5630.2	5735.2	5750.2	5785.3
20°	5332.5	5310.0	5365.1	5440.1	5572.7	5772.8	5970.3	6120.4	6117.9	6117.9
22.5°	5675.2	5640.2	5687.7	5747.7	5872.8	6115.4	6378.0	6555.6	6555.6	6485.6
25°	6042.9	6007.9	6060.4	6115.4	6225.5	6500.6	6808.2	7028.4	7038.4	6918.3
27.5°	6503.1	6458.1	6498.1	6563.1	6628.2	6908.3	7273.5	7528.6	7533.6	7348.5
30°	7388.5	7261.0	7135.9	7065.9	7095.9	7373.5	7763.7	8046.3	8071.4	7816.2
32.5°	9009.3	8984.3	8544.1	7968.8	7668.7	7873.8	8311.5	8651.6	8666.6	8339.0
35°	11528.0	11498.0	10790.1	9694.6	8716.7	8544.1	8976.8	9379.5	9369.5	8999.3
37.5°	14534.4	14506.9	13574.0	12108.3	10525.0	9557.1	9834.7	10257.4	10319.9	9834.7
40°	17103.2	17000.6	16410.3	14997.2	12926.2	11237.9	11055.3	11335.4	11400.4	10825.2
42.5°	19049.1	18961.5	18661.4	17778.5	15832.6	13724.0	12493.5	12601.0	12673.5	11983.2
45°	20057.1	20037.1	20157.1	20074.6	18794.0	16775.5	14549.4	14101.7	14129.2	13266.3
47.5°	20199.6	20189.6	20737.4	21512.8	21340.2	20217.1	17188.2	15972.6	15875.1	14714.5
50°	19359.2	19339.2	20389.7	21842.9	23041.0	23108.5	20184.6	18081.1	17866.0	16212.7
52.5°	16675.5	16670.5	18396.3	20814.9	23638.8	25639.7	23146.0	20397.2	20037.1	17798.5
55°	12831.1	12923.7	14902.1	17761.0	22548.3	26857.8	25804.8	22968.5	22415.7	19394.3
57.5°	9089.3	9224.4	11180.3	13726.5	19166.6	26137.5	27603.2	25544.7	24949.4	20985.0
60°	4882.3	5002.4	6960.8	9999.8	14259.3	23451.2	28551.1	27780.8	27218.0	22495.7
62.5°	2908.9	2948.9	3759.3	6455.6	9644.6	17916.0	28148.4	29484.1	29021.3	23763.8
65°	2088.5	2096.0	2503.7	3941.9	5855.3	10885.2	25324.6	30299.5	30156.9	24719.3
67.5°	1758.3	1753.3	1923.4	2618.7	3989.4	5452.6	19409.3	29146.4	29751.7	25324.6
70°	1508.2	1515.7	1715.8	1918.4	2998.9	3086.5	9649.6	25377.1	26667.7	25484.7
72.5°	1123.0	1148.0	1333.1	1748.3	2263.6	2123.5	3331.6	18816.5	21150.1	24011.5
75°	792.9	805.4	937.9	1470.7	1688.3	1545.7	1700.8	9727.1	12718.6	18408.8
77.5°	610.3	632.8	710.3	1028.0	1663.3	1085.5	1040.5	3366.6	5172.5	11120.3
80°	330.2	370.2	512.7	742.9	1168.1	767.9	515.2	1340.6	1753.3	5200.0
82.5°	170.1	190.1	357.7	535.3	665.3	670.3	255.1	557.8	722.8	1605.8
85°	67.5	82.5	240.1	295.1	342.7	330.2	115.1	225.1	260.1	445.2
87.5°	15.0	25.0	87.5	67.5	65.0	70.0	27.5	52.5	50.0	52.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956815
 CATALOG NUMBER: GALN-SB9B-835-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4487.1	0°	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1	4487.1
4517.2	2.5°	4514.7	4504.6	4477.1	4447.1	4412.1	4392.1	4379.6	4377.1	4359.6	4347.1
4617.2	5°	4589.7	4579.7	4527.2	4464.6	4397.1	4344.6	4294.5	4249.5	4184.5	4172.0
4762.3	7.5°	4739.8	4712.2	4627.2	4542.2	4414.6	4262.0	4076.9	3864.3	3674.3	3616.7
4954.9	10°	4924.8	4887.3	4779.8	4629.7	4347.1	3931.9	3484.2	3069.0	2738.8	2646.3
5182.5	12.5°	5134.9	5102.4	4959.9	4682.2	4064.4	3311.6	2626.3	2111.0	1790.9	1710.8
5425.1	15°	5385.1	5337.5	5140.0	4602.2	3559.2	2516.2	1803.4	1498.2	1383.2	1368.2
5702.7	17.5°	5650.2	5572.7	5300.0	4314.6	2878.9	1788.4	1393.2	1305.6	1255.6	1240.6
5982.9	20°	5892.8	5792.8	5395.1	3879.4	2151.0	1393.2	1248.1	1190.6	1145.5	1128.0
6263.0	22.5°	6135.4	5992.9	5395.1	3286.6	1613.3	1235.6	1145.5	1093.0	1040.5	1018.0
6563.1	25°	6388.0	6198.0	5300.0	2626.3	1298.1	1133.0	1048.0	990.5	945.5	917.9
6848.3	27.5°	6633.2	6370.5	5082.4	2001.0	1155.6	1043.0	958.0	902.9	860.4	840.4
7158.4	30°	6865.8	6540.6	4777.3	1518.2	1063.0	955.5	875.4	827.9	785.4	765.4
7561.1	32.5°	7180.9	6755.7	4452.1	1245.6	983.0	872.9	800.4	755.4	717.8	702.8
8083.9	35°	7618.6	7073.4	4172.0	1223.1	915.4	805.4	732.8	690.3	652.8	640.3
8759.2	37.5°	8238.9	7586.1	4024.4	1373.2	860.4	745.4	677.8	632.8	597.8	587.8
9617.1	40°	9004.3	8281.5	4104.5	1523.2	822.9	692.8	627.8	582.8	552.8	540.3
10602.6	42.5°	9912.2	9139.4	4547.2	1638.3	797.9	647.8	580.3	530.3	510.2	505.2
11720.6	45°	10955.2	10082.3	5225.0	1760.8	757.9	605.3	532.8	495.2	480.2	477.7
12936.2	47.5°	12140.8	11117.8	6010.4	1913.4	717.8	565.3	495.2	470.2	457.7	452.7
14204.3	50°	13316.4	12160.8	6818.3	1998.5	685.3	527.8	465.2	445.2	435.2	432.7
15544.9	52.5°	14546.9	13233.8	7471.1	1918.4	657.8	497.7	440.2	425.2	415.2	412.7
16780.5	55°	15720.0	14101.7	7583.6	1628.3	602.8	467.7	412.7	405.2	392.7	392.7
18033.6	57.5°	16730.5	14536.9	6788.2	1195.6	547.8	422.7	385.2	377.7	367.7	365.2
19164.1	60°	17658.4	14411.9	5240.0	805.4	487.7	377.7	350.2	345.2	335.2	322.7
20147.1	62.5°	18181.2	13861.6	3584.2	525.3	427.7	330.2	310.1	307.6	285.1	260.1
20875.0	65°	18378.8	12731.1	2236.1	382.7	357.7	282.6	267.6	262.6	230.1	202.6
21287.7	67.5°	18206.2	10870.2	1128.0	302.6	282.6	235.1	220.1	220.1	197.6	172.6
21262.6	70°	17515.9	8148.9	475.2	242.6	217.6	180.1	180.1	190.1	167.6	140.1
20159.6	72.5°	16017.6	5482.6	252.6	185.1	162.6	127.6	147.6	155.1	132.6	105.1
16500.4	75°	12733.6	3344.1	175.1	137.6	102.5	90.0	112.6	117.6	90.0	70.0
11312.9	77.5°	8709.2	1920.9	117.6	87.5	65.0	52.5	77.5	72.5	47.5	32.5
4362.1	80°	3824.3	800.4	67.5	40.0	25.0	20.0	27.5	20.0	15.0	10.0
597.8	82.5°	447.7	187.6	25.0	15.0	10.0	5.0	2.5	0.0	0.0	0.0
182.6	85°	92.5	22.5	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0
32.5	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>
4487.1
4359.6
4167.0
3589.2
2611.2
1688.3
1353.1
1233.1
1118.0
1005.5
907.9
840.4
767.9
702.8
640.3
585.3
537.8
505.2
475.2
452.7
432.7
412.7
390.2
362.7
320.2
255.1
200.1
170.1
137.6
105.1
67.5
35.0
10.0
0.0
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