

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: P956798

Luminaire Tested: **GALN-SB9B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956798
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35500 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

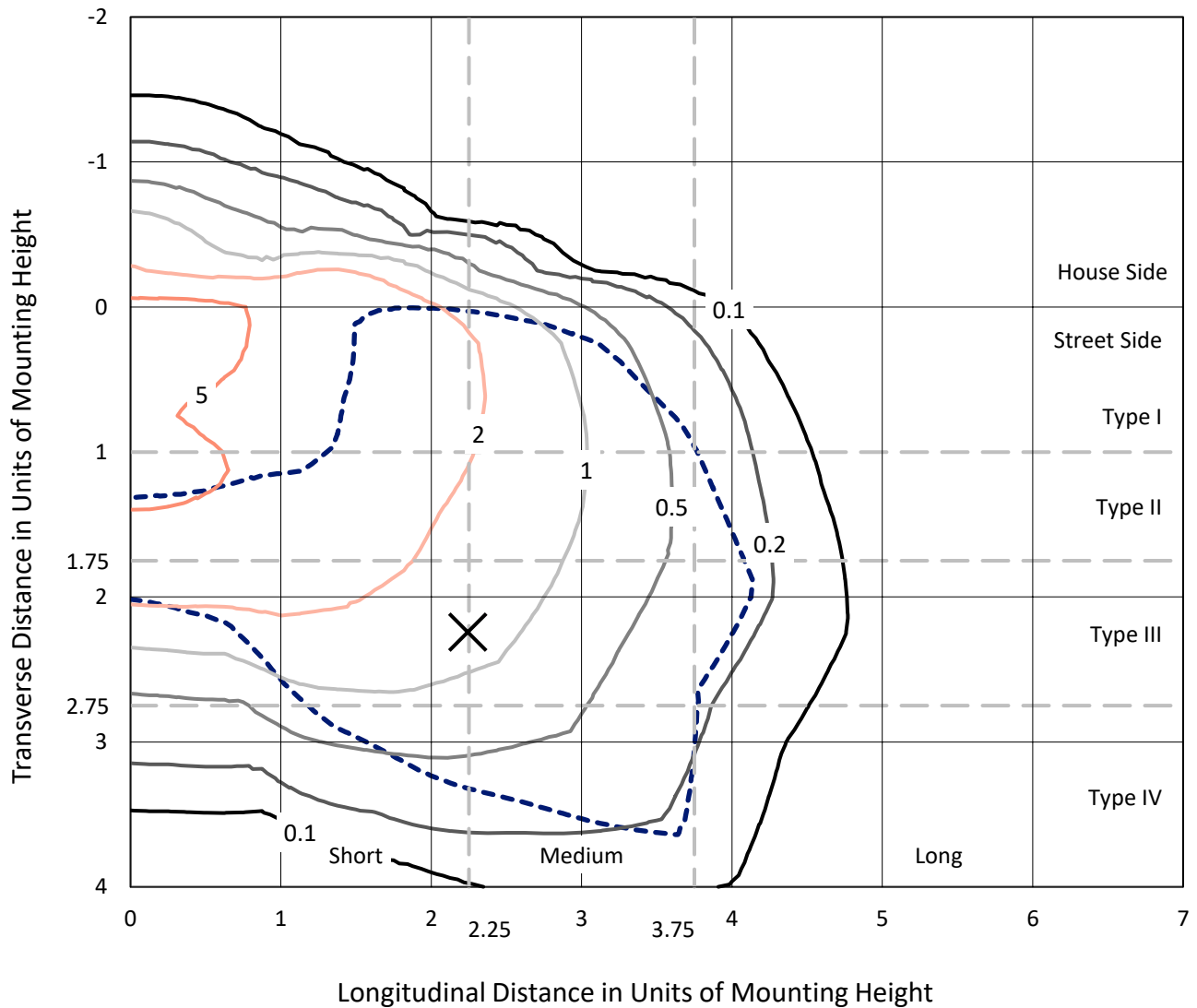
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

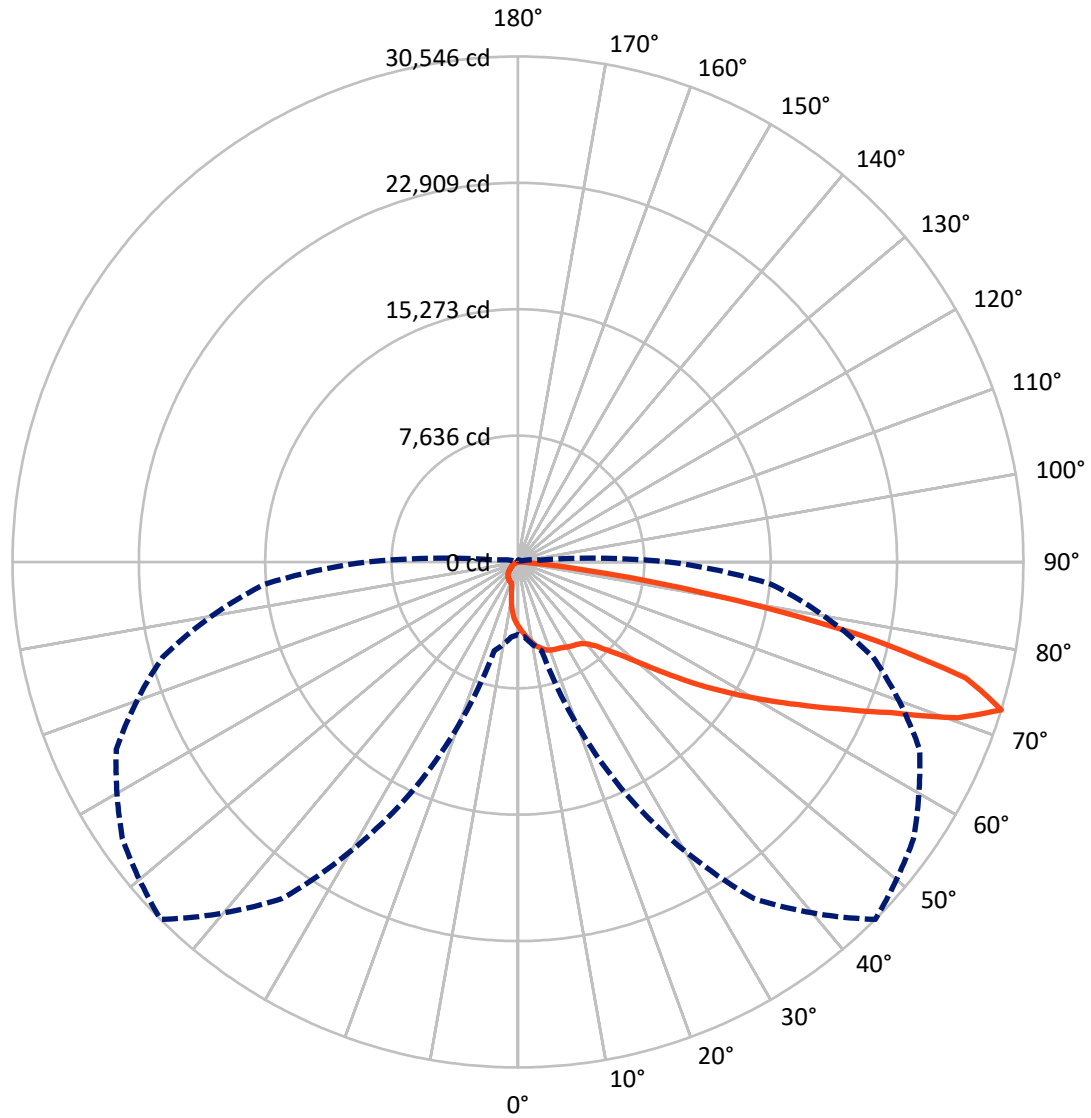
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3730.1	0.0	3730.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	31769.9	0.0	31769.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	35500.0	0.0	35500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.4	1.0
10°-20°	1070.9	3.0
20°-30°	1758.6	5.0
30°-40°	2494.1	7.0
40°-50°	4122.6	11.6
50°-60°	7405.7	20.9
60°-70°	10283.2	29.0
70°-80°	7459.1	21.0
80°-90°	539.3	1.5
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°	35500.0	100.0
0°-180°	35500.0	100.0

Coefficient of Utilization



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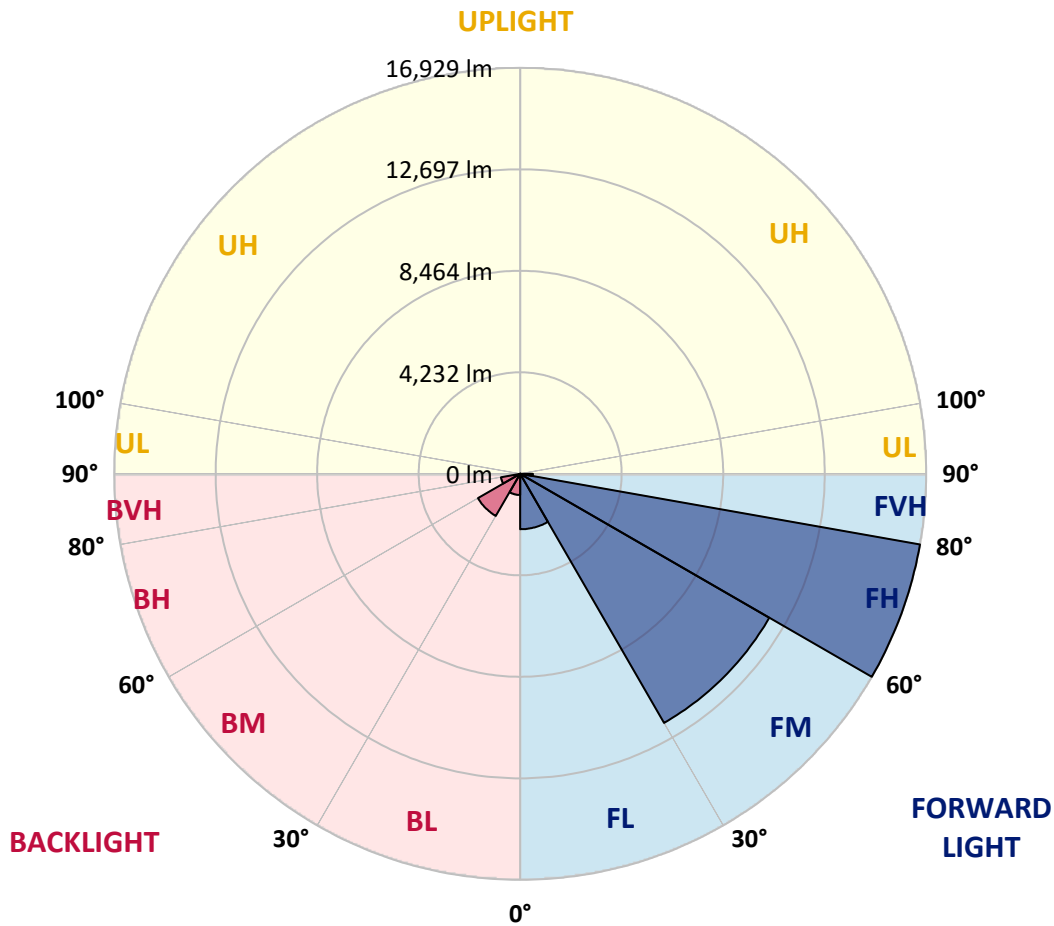
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2312.5	6.5			
FM (30°-60°)	11993.8	33.8			
FH (60°-80°)	16928.9	47.7			G5
FVH (80°-90°)	534.7	1.5			G4/750
BL (0°-30°)	883.5	2.5	B2/1000		
BM (30°-60°)	2028.6	5.7	B2/2500		
BH (60°-80°)	813.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1
2.5°	4247.7	4255.0	4250.1	4221.1	4172.6	4146.0	4131.4	4082.9	4051.4	3995.7
5°	4637.8	4666.9	4650.0	4591.8	4499.7	4434.3	4414.9	4315.6	4225.9	4121.7
7.5°	5052.2	5066.7	5035.2	4960.1	4836.5	4725.1	4708.1	4570.0	4427.0	4267.1
10°	5410.8	5427.8	5379.3	5270.3	5129.7	4991.6	4967.4	4814.7	4645.1	4448.8
12.5°	5711.3	5728.2	5665.2	5534.4	5379.3	5236.4	5212.1	5052.2	4865.6	4647.5
15°	5939.1	5970.6	5885.7	5745.2	5578.0	5435.0	5422.9	5265.4	5083.7	4841.4
17.5°	6072.3	6103.8	6023.9	5854.2	5711.3	5590.1	5575.6	5444.7	5275.1	5042.5
20°	6094.1	6123.2	6038.4	5890.6	5771.9	5674.9	5667.7	5573.2	5449.6	5226.7
22.5°	6028.7	6065.1	5987.5	5868.8	5786.4	5735.5	5725.8	5672.5	5602.2	5413.2
25°	5960.9	5989.9	5931.8	5827.6	5784.0	5779.1	5786.4	5776.7	5762.2	5602.2
27.5°	5956.0	5987.5	5922.1	5822.7	5798.5	5849.4	5856.7	5902.7	5914.8	5774.3
30°	5997.2	6019.0	5956.0	5851.8	5839.7	5956.0	5958.4	6040.8	6060.2	5919.7
32.5°	6086.9	6111.1	6048.1	5895.4	5878.5	6040.8	6048.1	6157.1	6188.6	6074.8
35°	6297.7	6326.8	6254.1	6016.6	5956.0	6120.8	6142.6	6271.0	6334.0	6239.5
37.5°	6823.5	6738.7	6639.3	6261.3	6132.9	6246.8	6283.1	6433.4	6544.8	6435.8
40°	8129.6	7863.0	7552.9	6678.1	6443.1	6515.8	6544.8	6695.1	6847.7	6741.1
42.5°	10089.9	9774.8	9275.7	7637.7	6910.7	6947.1	6968.9	7099.7	7315.4	7230.6
45°	11836.9	11723.0	11214.2	9275.7	7785.5	7606.2	7632.8	7700.7	8018.1	7986.6
47.5°	13179.3	13113.9	12721.4	11156.0	9263.6	8413.1	8488.2	8519.7	8977.6	9089.1
50°	14211.6	14187.3	13836.0	12828.0	11194.8	9602.8	9629.5	9561.6	10247.4	10523.6
52.5°	15185.7	15268.1	15008.8	14381.2	13256.9	11160.9	11156.0	10836.2	11761.8	12178.6
55°	16065.3	16094.3	16121.0	15965.9	15331.1	12934.6	12888.6	12365.2	13518.6	13949.9
57.5°	16891.5	16903.7	17141.1	17458.5	17490.0	14839.2	14754.4	14126.8	15437.7	15745.4
60°	17446.4	17502.2	18003.7	18885.8	19271.0	16804.3	16758.3	16118.6	17390.7	17533.7
62.5°	16646.8	16986.0	18250.9	20000.4	20952.7	18982.7	18960.9	18359.9	19445.5	19329.2
65°	13474.9	14049.2	16273.6	20754.0	22602.8	21415.5	21447.0	20807.3	21556.0	21178.0
67.5°	9425.9	10031.7	12663.2	20814.6	24446.8	24272.3	24454.1	23450.9	23797.4	22949.3
70°	6518.2	6830.8	8543.9	19510.9	25883.7	28207.5	28202.6	26697.9	26026.7	23756.2
72.5°	4383.4	4545.8	5548.9	15478.9	24827.2	30545.8	30405.3	29179.2	26777.9	22217.5
75°	1848.8	1967.6	2568.5	8699.0	19641.8	27945.8	27565.4	25786.8	23792.6	17494.9
77.5°	586.4	637.3	1012.9	3113.7	10819.2	21006.0	20603.8	16104.0	15946.5	8776.5
80°	278.7	324.7	569.4	1250.3	4257.4	11425.0	11369.3	7305.7	6859.8	2369.8
82.5°	121.2	143.0	315.0	668.8	1904.6	4075.7	4158.1	2486.1	2057.2	899.0
85°	38.8	50.9	145.4	307.7	804.5	1012.9	1000.7	591.2	828.7	489.5
87.5°	0.0	0.0	48.5	70.3	82.4	58.2	65.4	50.9	230.2	135.7
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°
3889.1	0°	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1	3889.1
3937.6	2.5°	3908.5	3869.7	3801.9	3738.9	3683.1	3627.4	3593.5	3545.0	3540.2	3540.2
4000.6	5°	3935.1	3872.1	3751.0	3622.6	3474.7	3334.2	3193.7	3058.0	3014.4	2982.9
4102.3	7.5°	4012.7	3913.3	3721.9	3477.2	3196.1	2888.4	2672.7	2440.1	2350.4	2302.0
4238.0	10°	4124.1	3988.4	3697.7	3268.8	2813.2	2394.0	2086.3	1834.3	1737.4	1696.2
4385.8	12.5°	4247.7	4080.5	3654.1	3009.5	2394.0	1892.5	1592.0	1475.7	1461.1	1461.1
4562.7	15°	4395.5	4192.0	3578.9	2704.2	1955.5	1497.5	1390.9	1395.7	1410.3	1419.9
4734.8	17.5°	4548.2	4310.7	3460.2	2362.5	1567.8	1347.3	1349.7	1356.9	1369.1	1378.8
4921.3	20°	4713.0	4429.5	3302.7	1999.1	1344.8	1303.6	1310.9	1318.2	1327.9	1332.7
5095.8	22.5°	4889.8	4540.9	3116.1	1642.9	1269.7	1267.3	1269.7	1277.0	1289.1	1289.1
5299.4	25°	5078.9	4664.5	2902.9	1383.6	1230.9	1230.9	1235.8	1240.6	1250.3	1250.3
5495.6	27.5°	5272.7	4778.4	2677.5	1247.9	1197.0	1194.6	1194.6	1201.9	1206.7	1209.1
5689.5	30°	5485.9	4911.7	2452.2	1218.8	1170.4	1158.2	1151.0	1155.8	1160.7	1163.1
5893.0	32.5°	5704.0	5040.1	2251.1	1230.9	1143.7	1121.9	1097.7	1092.8	1092.8	1102.5
6103.8	35°	5946.3	5180.6	2096.0	1272.1	1129.2	1068.6	1029.8	1008.0	1010.4	1025.0
6355.8	37.5°	6237.1	5350.2	1982.1	1308.5	1119.5	1008.0	945.0	918.4	901.4	918.4
6702.3	40°	6617.5	5599.8	1899.7	1337.6	1107.4	937.7	852.9	809.3	777.8	787.5
7240.3	42.5°	7177.3	5992.4	1868.2	1340.0	1080.7	855.4	758.4	700.3	654.2	656.7
8049.6	45°	7962.4	6612.7	2030.6	1308.5	1022.6	765.7	659.1	581.5	552.5	545.2
9258.7	47.5°	9038.2	7516.5	2406.2	1243.1	937.7	678.5	562.2	496.7	474.9	462.8
10845.9	50°	10480.0	8677.2	2822.9	1170.4	852.9	596.1	482.2	441.0	426.5	414.4
12728.6	52.5°	12151.9	9854.8	3164.6	1097.7	768.1	523.4	431.3	407.1	395.0	385.3
14546.0	55°	13685.8	10666.6	3145.2	1020.1	685.7	465.2	395.0	380.4	365.9	356.2
16111.3	57.5°	14640.5	10780.4	2592.7	935.3	591.2	419.2	361.0	351.4	334.4	322.3
17465.8	60°	15079.0	10131.0	1817.3	823.9	496.7	375.6	324.7	319.9	298.0	281.1
18747.6	62.5°	15159.0	8924.3	1211.6	685.7	414.4	334.4	288.4	281.1	252.0	222.9
19789.6	65°	14834.3	7199.1	838.4	535.5	353.8	290.8	247.2	232.6	201.1	172.0
20036.7	67.5°	13806.9	5054.6	584.0	385.3	300.5	230.2	196.3	191.4	167.2	143.0
18776.7	70°	11924.2	2881.1	390.1	288.4	237.5	157.5	155.1	159.9	135.7	116.3
15340.7	72.5°	9142.4	1318.2	242.3	210.8	162.3	106.6	123.6	126.0	104.2	87.2
9571.3	75°	5381.7	564.6	152.7	135.7	82.4	70.3	89.7	92.1	70.3	55.7
3499.0	77.5°	1831.9	213.2	96.9	80.0	41.2	38.8	58.2	58.2	38.8	21.8
702.7	80°	416.8	80.0	48.5	31.5	19.4	17.0	19.4	17.0	9.7	2.4
215.7	82.5°	118.7	31.5	19.4	12.1	7.3	7.3	2.4	0.0	0.0	0.0
75.1	85°	33.9	14.5	4.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0
26.7	87.5°	14.5	2.4	0.0	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>
3889.1
3552.3
2997.4
2309.2
1696.2
1461.1
1419.9
1378.8
1335.1
1293.9
1252.8
1211.6
1167.9
1109.8
1032.2
913.5
782.7
647.0
535.5
455.5
411.9
382.9
351.4
319.9
276.2
208.4
162.3
135.7
106.6
77.5
48.5
17.0
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