

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: P957636

Luminaire Tested: **GALN-SB9D-935-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-935-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53680 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

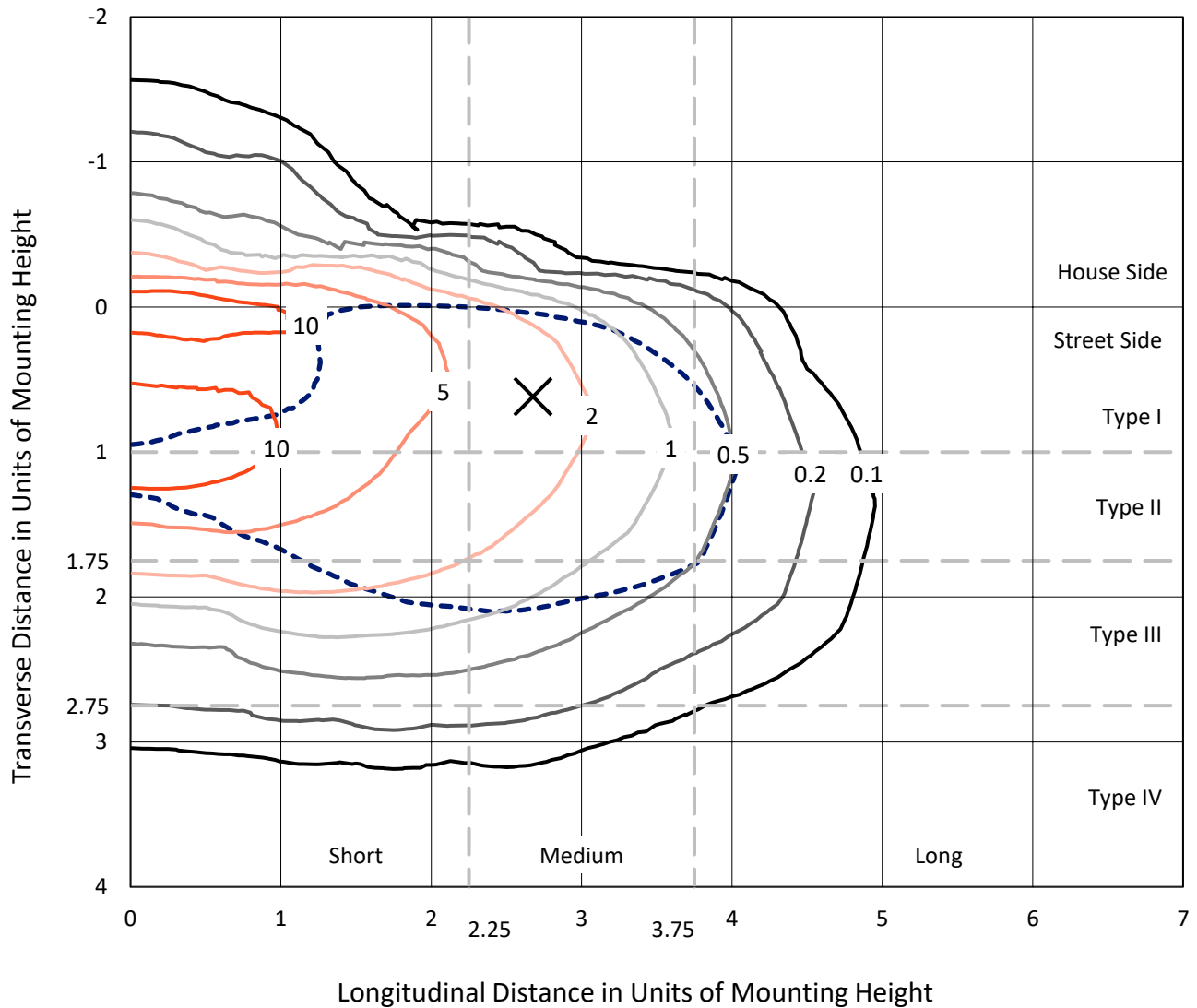
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

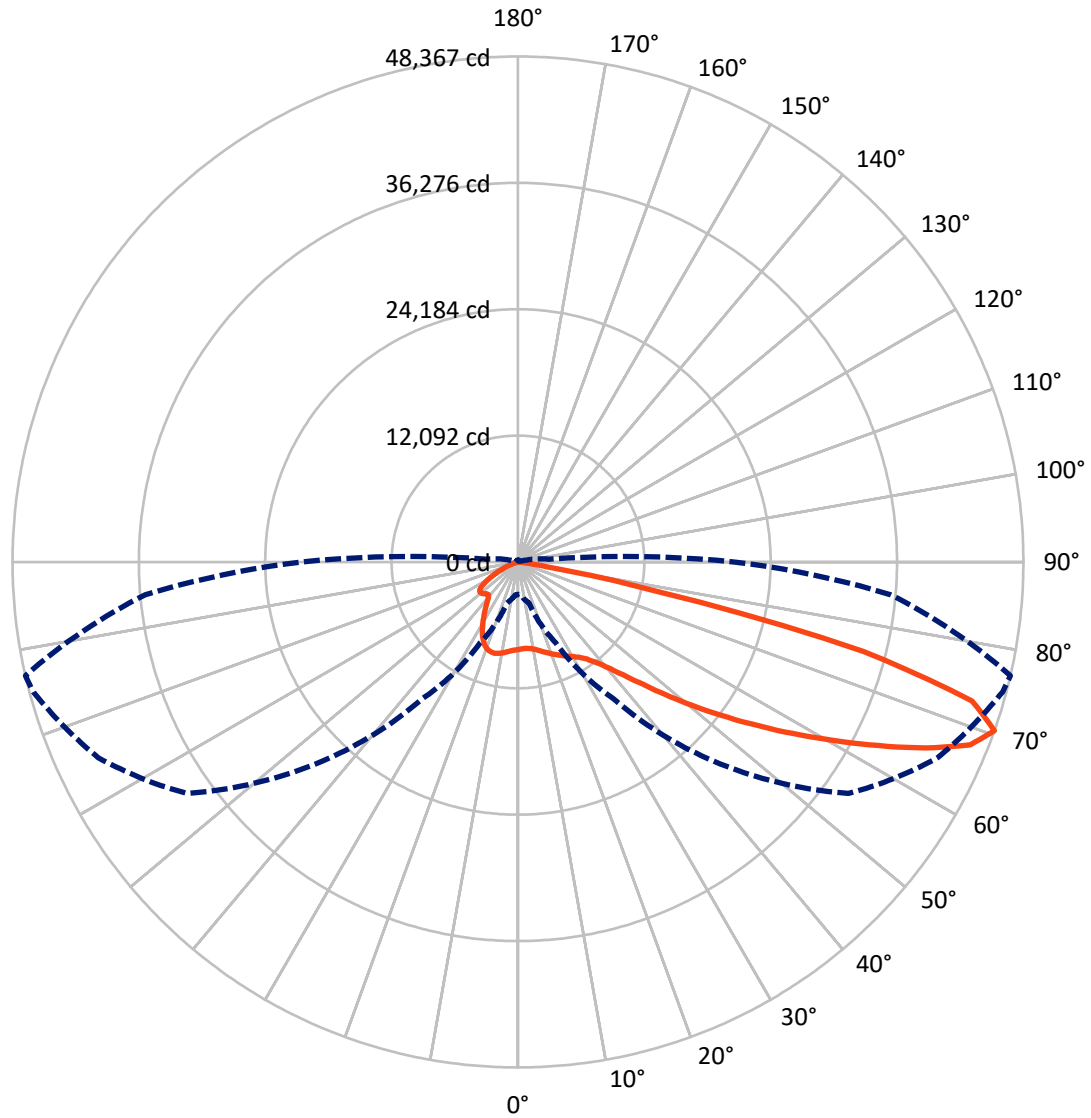
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5658.6	0.0	5658.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	48021.4	0.0	48021.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	53680.0	0.0	53680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.6	1.3
10°-20°	1713.1	3.2
20°-30°	2649.6	4.9
30°-40°	4807.9	9.0
40°-50°	9075.5	16.9
50°-60°	13113.4	24.4
60°-70°	13958.8	26.0
70°-80°	7397.2	13.8
80°-90°	242.9	0.5
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°	53680.0	100.0
0°-180°	53680.0	100.0

Coefficient of Utilization



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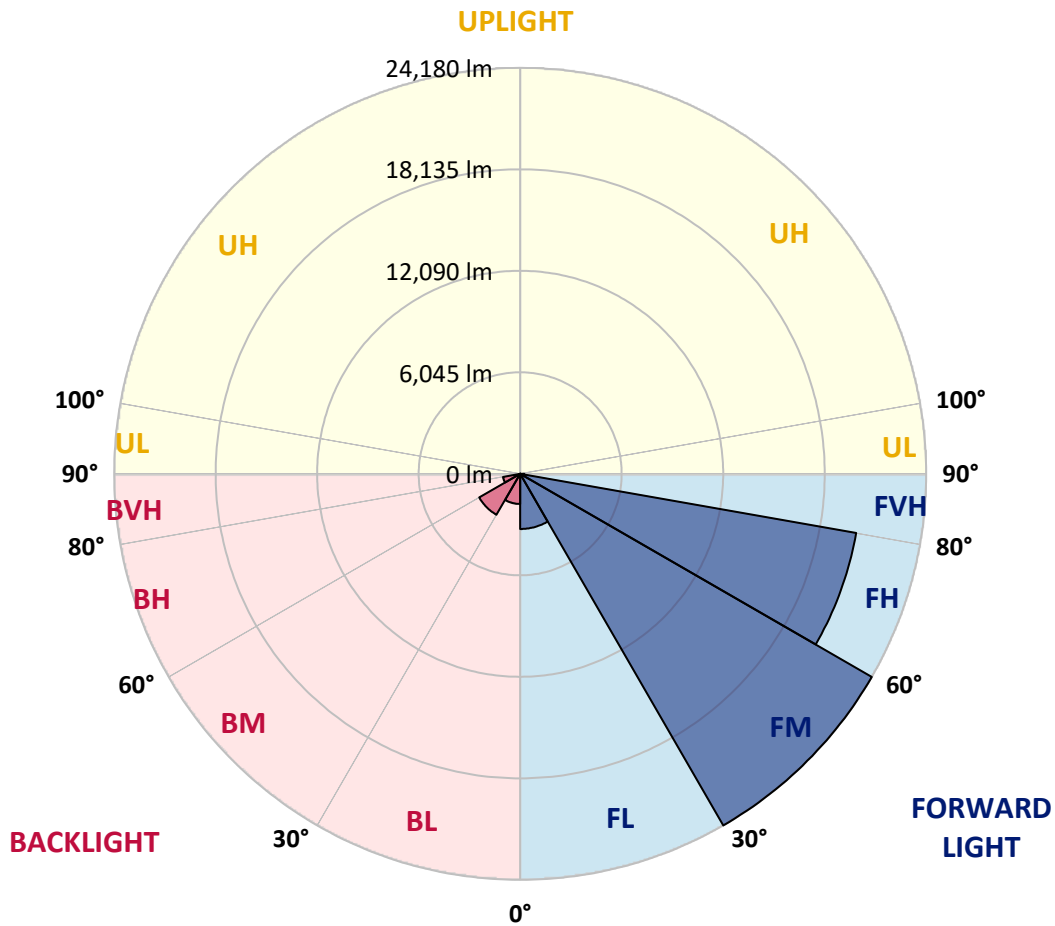
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3286.5	6.1			
FM (30°-60°)	24179.9	45.0			
FH (60°-80°)	20318.6	37.9			G5
FVH (80°-90°)	236.4	0.4			G3/500
BL (0°-30°)	1797.8	3.3	B3/2500		
BM (30°-60°)	2816.9	5.2	B3/5000		
BH (60°-80°)	1037.4	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1
2.5°	7861.2	7932.4	7922.3	7969.7	7986.7	8054.5	8122.3	8213.8	8315.5	8312.1
5°	7417.2	7488.3	7505.3	7569.7	7651.1	7756.1	7895.1	8078.2	8268.0	8298.5
7.5°	6891.7	6966.3	7010.4	7139.2	7288.3	7505.3	7732.4	8000.2	8315.5	8359.6
10°	6366.3	6434.1	6491.7	6674.8	6912.1	7234.1	7603.6	7990.0	8413.8	8478.2
12.5°	6040.8	6105.3	6169.7	6329.0	6623.9	7017.1	7518.8	8037.5	8576.5	8668.0
15°	5925.6	5983.2	6034.1	6176.4	6451.0	6898.5	7501.9	8135.8	8783.3	8905.3
17.5°	5942.5	5973.0	6006.9	6115.4	6383.2	6844.3	7532.4	8305.3	9027.4	9135.8
20°	6040.8	6057.8	6061.2	6135.8	6373.1	6837.5	7593.4	8468.0	9257.9	9403.6
22.5°	6166.3	6173.1	6166.3	6217.1	6437.5	6888.3	7674.8	8664.6	9515.5	9651.1
25°	6752.7	6623.9	6461.2	6362.9	6545.9	6986.6	7796.8	8929.1	9796.9	9929.1
27.5°	8573.1	8203.6	7620.5	6966.3	6769.7	7129.0	7966.3	9196.9	10081.6	10200.3
30°	11529.1	11044.4	10054.5	8579.9	7488.3	7427.3	8186.7	9464.7	10383.3	10512.2
32.5°	14491.9	14373.3	13230.9	11190.1	9105.3	8091.7	8552.8	9827.4	10783.3	10885.0
35°	17488.6	17247.9	16312.3	14295.3	11596.9	9444.3	9163.0	10302.0	11308.8	11424.0
37.5°	19783.6	19637.8	19058.1	17397.1	14552.9	11532.5	10207.1	11037.6	12071.5	12200.3
40°	21810.8	21743.0	21546.4	20451.4	17858.1	14264.8	11830.8	12176.6	13129.2	13281.7
42.5°	23404.0	23563.4	23675.2	23370.1	21265.0	17383.5	14013.9	13776.6	14603.8	14759.7
45°	25034.6	25088.8	25539.7	25980.4	24648.1	20644.6	16475.0	15651.3	16437.7	16631.0
47.5°	26082.1	26299.0	27092.3	27868.6	27492.3	23878.6	19119.2	17864.9	18563.2	18925.9
50°	26160.0	26570.2	27661.8	29014.4	29563.5	26956.7	21993.8	20387.0	21129.4	21529.4
52.5°	24861.7	25499.0	27190.6	29170.3	30682.2	29563.5	24966.8	22909.1	23861.7	24383.7
55°	19061.5	19895.5	25417.6	28322.8	30726.3	31539.8	27861.8	25536.3	26905.8	27495.7
57.5°	16607.2	17027.6	19983.6	26851.6	29909.3	32336.5	30478.8	28038.1	30217.8	30950.0
60°	13817.3	14369.9	16759.8	24444.7	28800.8	32414.4	32790.7	31265.3	33807.7	34631.5
62.5°	9390.1	9990.1	12366.4	20309.0	27285.5	32377.2	34685.7	34587.4	37797.6	38682.4
65°	5817.1	6193.4	7759.5	16583.5	25166.8	32417.8	36668.8	38621.4	42007.9	42906.3
67.5°	4596.7	4769.6	5586.6	12732.6	21515.8	31502.6	38648.5	42414.7	45970.7	46682.6
70°	3088.2	3193.3	4064.5	8535.8	16007.2	27278.7	38611.2	44319.9	48011.5	48367.4
72.5°	1627.2	1708.5	2376.3	3952.7	9668.1	19390.4	32546.7	42041.8	45980.9	45445.3
75°	813.6	949.2	1600.0	2006.8	4128.9	10813.9	20210.7	33146.7	36190.8	34116.2
77.5°	617.0	745.8	1322.1	1322.1	1437.3	3640.8	8559.6	18078.5	16675.0	13885.1
80°	393.2	508.5	1156.0	1000.0	600.0	925.4	2230.6	5064.5	3542.5	2695.0
82.5°	230.5	332.2	962.7	661.0	335.6	342.4	630.5	1078.0	918.7	715.3
85°	91.5	217.0	661.0	261.0	132.2	84.7	189.8	230.5	189.8	142.4
87.5°	0.0	50.8	115.3	0.0	10.2	6.8	13.6	16.9	16.9	13.6
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°
8373.1	0°	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1	8373.1
8379.9	2.5°	8410.4	8417.2	8437.5	8440.9	8393.5	8332.4	8308.7	8298.5	8257.9	8254.5
8434.1	5°	8512.1	8542.6	8512.1	8424.0	8213.8	7918.9	7695.1	7512.1	7346.0	7295.1
8620.6	7.5°	8715.5	8746.0	8654.5	8308.7	7779.9	7193.4	6664.6	6291.7	5956.1	5830.7
8847.7	10°	9007.0	9047.7	8759.6	8061.2	7125.6	6183.2	5288.3	4657.8	4166.2	3966.2
9156.2	12.5°	9373.1	9390.1	8817.2	7685.0	6274.7	4928.9	3661.1	2986.5	2549.2	2386.5
9529.1	15°	9776.5	9752.8	8824.0	7173.1	5115.4	3484.8	2389.9	1962.8	1786.5	1732.3
9902.0	17.5°	10200.3	10102.0	8688.4	6434.1	3844.2	2383.1	1772.9	1671.2	1640.7	1627.2
10271.5	20°	10617.2	10396.9	8440.9	5467.9	2759.4	1779.7	1610.2	1579.7	1562.8	1556.0
10644.4	22.5°	10996.9	10620.6	8017.2	4345.9	2003.4	1572.9	1522.1	1495.0	1464.4	1450.9
11007.1	25°	11366.4	10749.4	7420.5	3298.4	1603.4	1471.2	1430.5	1379.7	1339.0	1322.1
11396.9	27.5°	11725.7	10830.8	6674.8	2440.7	1430.5	1376.3	1301.7	1230.5	1200.0	1193.3
11813.9	30°	12108.8	10857.9	5827.3	1820.4	1325.5	1257.7	1149.2	1067.8	1050.9	1054.3
12376.6	32.5°	12576.6	10898.6	4973.0	1491.6	1237.3	1115.3	986.5	901.7	888.2	901.7
13197.0	35°	13136.0	10980.0	4149.3	1372.9	1159.4	969.5	830.5	759.3	745.8	756.0
14247.8	37.5°	13895.3	11112.2	3379.8	1349.2	1094.9	847.5	698.3	640.7	640.7	644.1
15536.0	40°	14905.5	11464.7	2691.6	1332.2	1061.0	756.0	589.8	566.1	576.3	583.1
17176.7	42.5°	16136.0	12213.9	2227.2	1311.9	1023.8	715.3	535.6	525.4	542.4	549.2
19142.9	45°	17515.7	13163.1	2064.5	1278.0	989.9	742.4	511.9	498.3	518.7	522.0
21346.3	47.5°	18942.9	14091.9	2044.1	1240.7	956.0	783.1	505.1	474.6	498.3	501.7
23699.0	50°	20387.0	14698.7	2064.5	1183.1	901.7	783.1	508.5	450.9	471.2	481.4
26139.7	52.5°	21841.3	14976.7	2050.9	1057.7	806.8	735.6	508.5	430.5	450.9	457.6
28777.1	55°	23251.5	14922.4	1844.1	871.2	684.8	650.9	494.9	413.6	427.1	430.5
31268.7	57.5°	24366.8	14166.5	1461.1	678.0	555.9	542.4	450.9	393.2	403.4	400.0
33553.5	60°	24949.8	12505.4	1044.1	522.0	437.3	427.1	396.6	366.1	372.9	355.9
35489.1	62.5°	24956.6	10308.8	698.3	413.6	349.2	339.0	339.0	328.8	322.0	288.1
36987.5	65°	24424.4	7871.4	464.4	328.8	281.4	264.4	284.8	281.4	257.6	210.2
37445.1	67.5°	23217.6	5159.5	352.6	257.6	217.0	206.8	227.1	237.3	220.3	176.3
35777.3	70°	20736.2	3003.5	291.5	200.0	162.7	152.5	183.1	203.4	183.1	142.4
30580.5	72.5°	17224.2	1620.4	237.3	149.2	111.9	101.7	145.8	166.1	145.8	105.1
19620.9	75°	11176.6	867.8	183.1	98.3	57.6	64.4	108.5	122.0	101.7	67.8
5759.5	77.5°	3752.6	383.1	115.3	47.5	27.1	27.1	64.4	74.6	47.5	23.7
1047.5	80°	837.3	159.3	47.5	20.3	10.2	10.2	13.6	13.6	6.8	0.0
322.0	82.5°	274.6	64.4	20.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0
81.4	85°	105.1	23.7	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.1	87.5°	40.7	3.4	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>
8373.1
8261.2
7264.6
5779.8
3881.5
2335.7
1732.3
1623.8
1549.2
1447.5
1315.3
1186.5
1054.3
898.3
752.6
640.7
583.1
549.2
525.4
505.1
484.8
457.6
430.5
400.0
352.6
278.0
203.4
172.9
135.6
101.7
61.0
20.3
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