

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: P956061

Luminaire Tested: **GALN-SB8D-827-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956061
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-SB8D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 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: 59570 lumens
Efficiency: N/A
Efficacy: 101.8 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

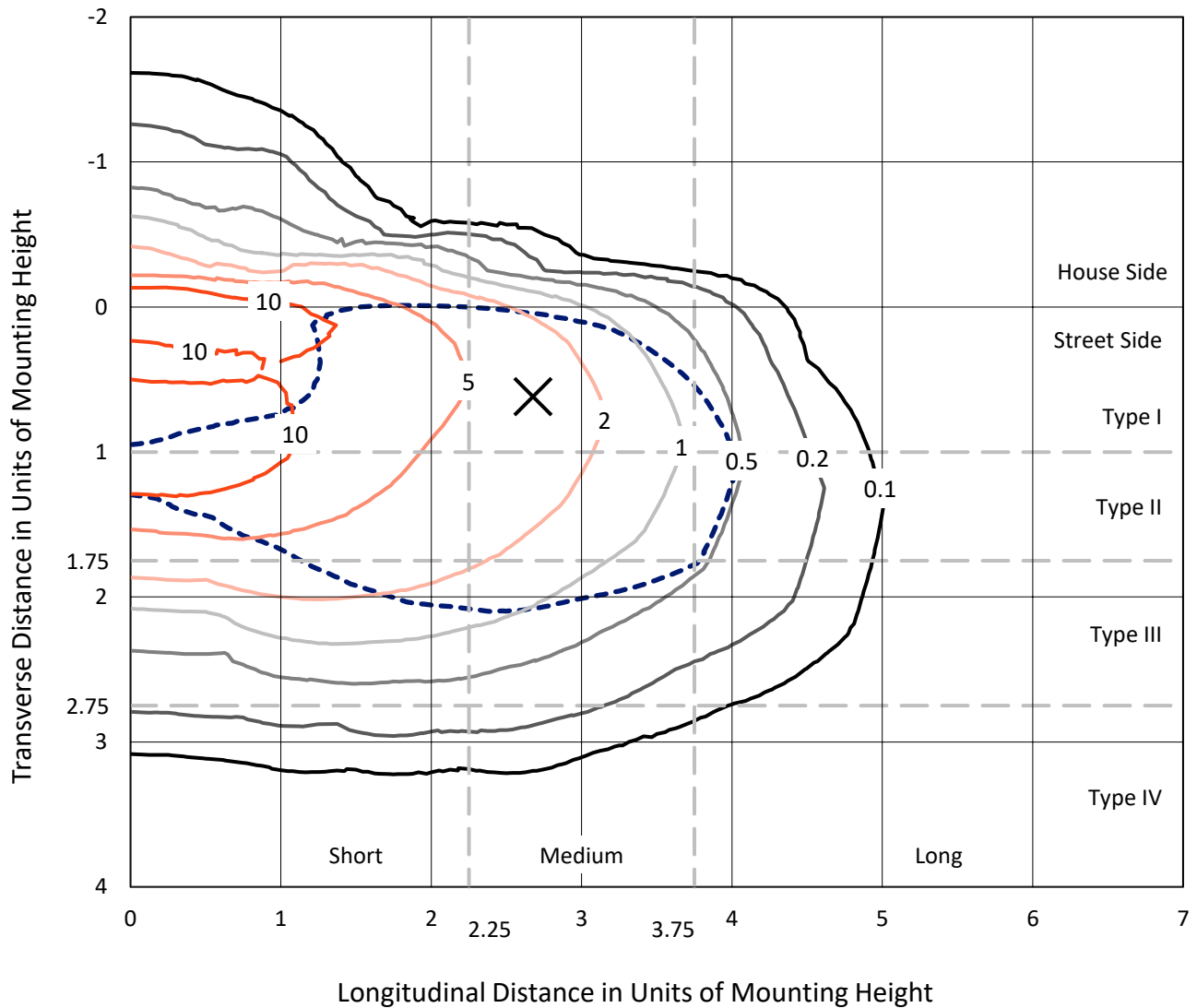
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

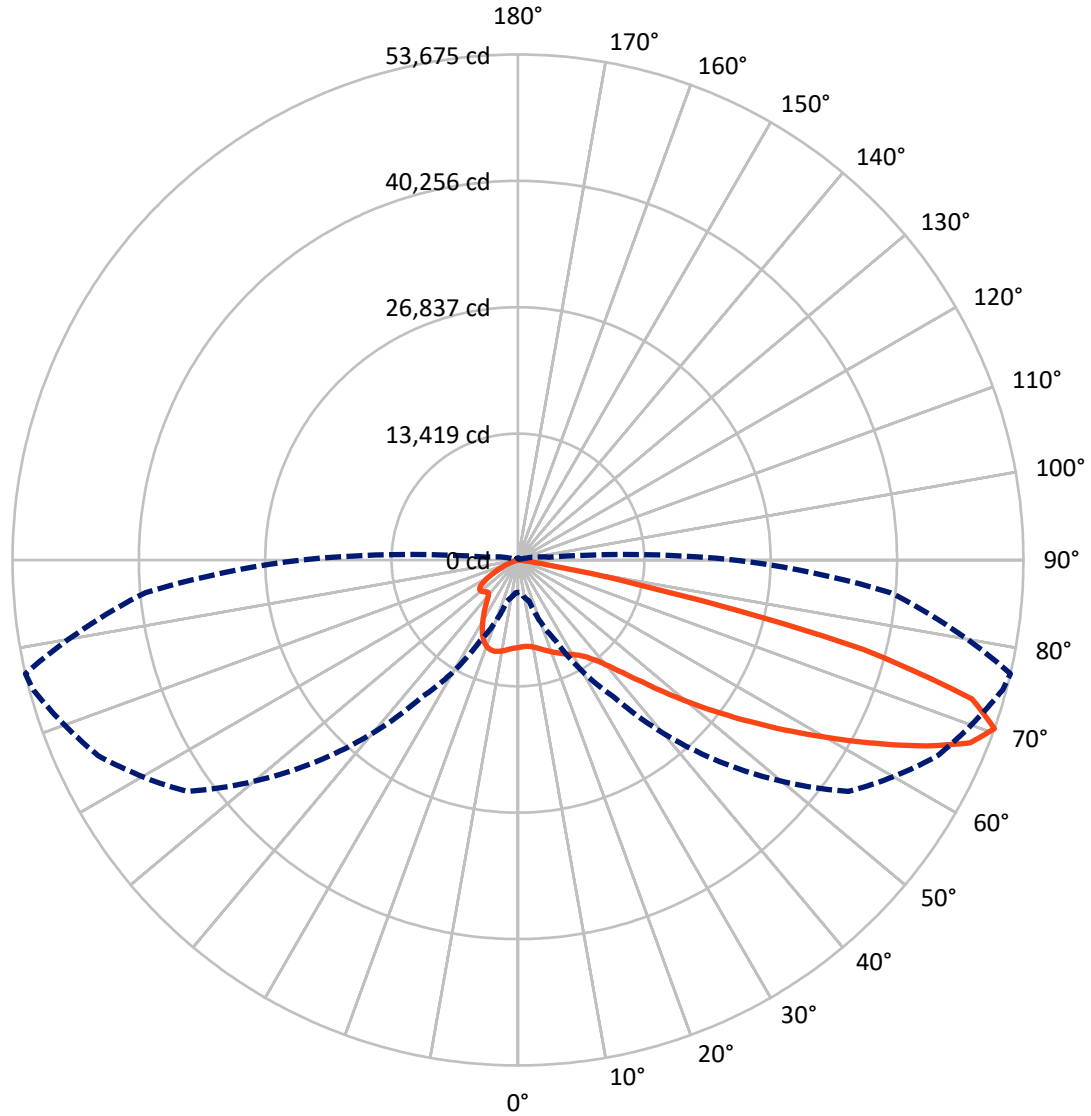
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 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	6279.5	0.0	6279.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	53290.5	0.0	53290.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	59570.0	0.0	59570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.8	1.3
10°-20°	1901.0	3.2
20°-30°	2940.4	4.9
30°-40°	5335.5	9.0
40°-50°	10071.3	16.9
50°-60°	14552.2	24.4
60°-70°	15490.4	26.0
70°-80°	8208.9	13.8
80°-90°	269.5	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°	59570.0	100.0
0°-180°	59570.0	100.0

Coefficient of Utilization



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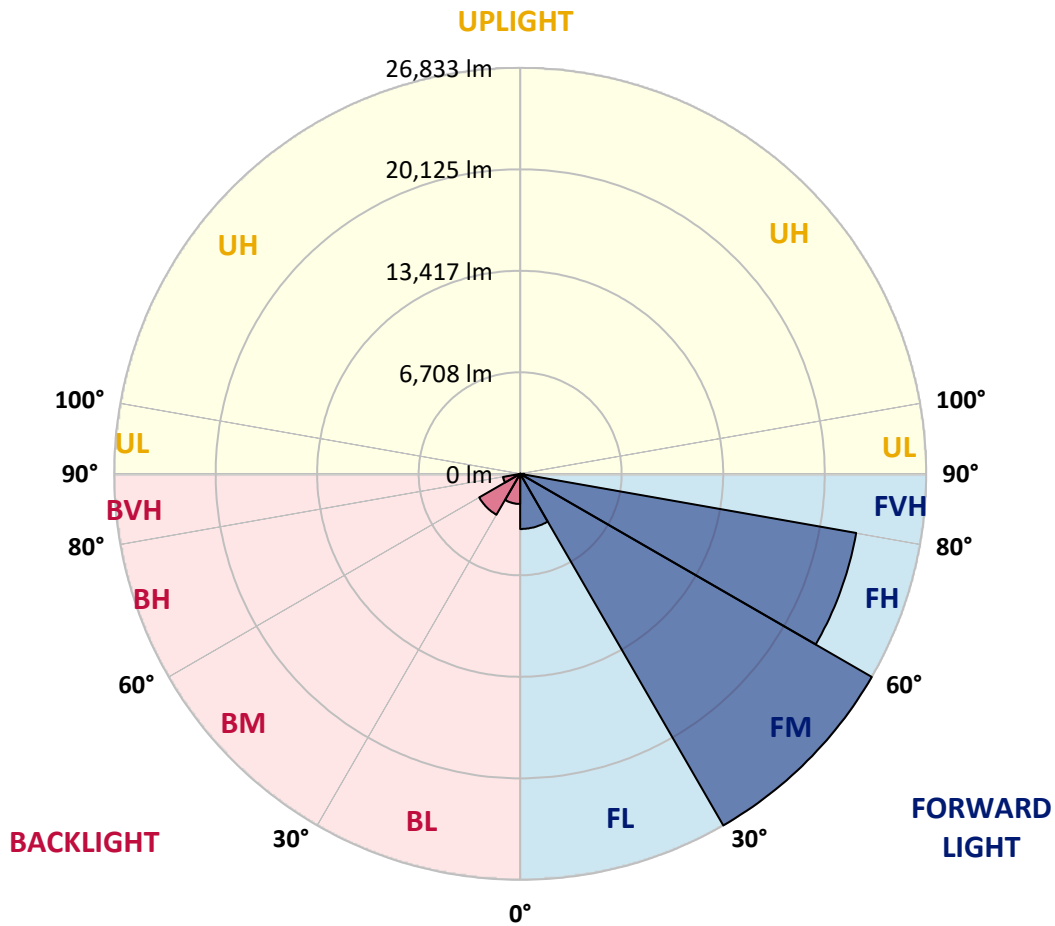
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3647.1	6.1			
FM (30°-60°)	26833.0	45.0			
FH (60°-80°)	22548.1	37.9			G5
FVH (80°-90°)	262.3	0.4			G3/500
BL (0°-30°)	1995.1	3.3	B3/2500		
BM (30°-60°)	3126.0	5.2	B3/5000		
BH (60°-80°)	1151.2	1.9	B3/2500		G3/2500
BVH (80°-90°)	7.2	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°	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8
2.5°	8723.8	8802.8	8791.5	8844.2	8863.0	8938.2	9013.5	9115.0	9227.9	9224.1
5°	8231.0	8310.0	8328.8	8400.3	8490.6	8607.2	8761.4	8964.6	9175.2	9209.1
7.5°	7647.9	7730.7	7779.6	7922.5	8088.0	8328.8	8580.8	8878.0	9227.9	9276.8
10°	7064.8	7140.0	7204.0	7407.1	7670.5	8027.9	8437.9	8866.8	9337.0	9408.5
12.5°	6703.7	6775.1	6846.6	7023.4	7350.7	7787.1	8343.9	8919.4	9517.6	9619.1
15°	6575.8	6639.7	6696.1	6854.1	7158.9	7655.4	8325.0	9028.5	9747.0	9882.5
17.5°	6594.6	6628.4	6666.1	6786.4	7083.6	7595.2	8358.9	9216.6	10017.9	10138.3
20°	6703.7	6722.5	6726.2	6809.0	7072.3	7587.7	8426.6	9397.2	10273.7	10435.5
22.5°	6842.9	6850.4	6842.9	6899.3	7143.8	7644.1	8516.9	9615.4	10559.6	10710.1
25°	7493.7	7350.7	7170.1	7061.0	7264.2	7753.2	8652.3	9908.8	10871.8	11018.5
27.5°	9513.8	9103.8	8456.7	7730.7	7512.5	7911.2	8840.4	10206.0	11187.8	11319.5
30°	12794.2	12256.2	11157.7	9521.3	8310.0	8242.3	9084.9	10503.2	11522.6	11665.6
32.5°	16082.0	15950.4	14682.6	12418.0	10104.4	8979.6	9491.2	10905.7	11966.5	12079.4
35°	19407.5	19140.4	18102.2	15863.8	12869.4	10480.6	10168.4	11432.4	12549.6	12677.5
37.5°	21954.3	21792.6	21149.3	19306.0	16149.8	12797.9	11327.0	12248.7	13396.1	13539.0
40°	24203.9	24128.7	23910.5	22695.4	19817.6	15830.0	13129.0	13512.7	14569.8	14739.0
42.5°	25972.0	26148.8	26273.0	25934.4	23598.3	19290.9	15551.6	15288.3	16206.2	16379.2
45°	27781.5	27841.7	28342.0	28831.0	27352.6	22909.9	18282.7	17368.6	18241.4	18455.8
47.5°	28943.9	29184.7	30064.9	30926.4	30508.8	26498.7	21217.0	19825.1	20600.1	21002.6
50°	29030.4	29485.6	30696.9	32197.9	32807.4	29914.5	24407.1	22623.9	23447.8	23891.7
52.5°	27589.6	28296.9	30174.0	32371.0	34048.8	32807.4	27706.2	25422.8	26479.9	27059.2
55°	21153.1	22078.5	28206.6	31430.5	34097.7	35000.5	30918.9	28338.2	29858.0	30512.6
57.5°	18429.5	18895.9	22176.3	29797.9	33191.1	35884.6	33823.1	31114.5	33533.4	34346.0
60°	15333.4	15946.6	18598.7	27126.9	31960.9	35971.1	36388.7	34695.8	37517.2	38431.4
62.5°	10420.4	11086.3	13723.3	22537.4	30279.4	35929.7	38491.6	38382.5	41945.0	42926.8
65°	6455.4	6873.0	8610.9	18403.1	27928.2	35974.9	40692.3	42859.1	46617.2	47614.1
67.5°	5101.1	5293.0	6199.6	14129.6	23876.7	34959.2	42889.2	47068.6	51014.9	51804.9
70°	3427.1	3543.7	4510.5	9472.4	17763.6	30271.9	42847.8	49182.8	53279.5	53674.5
72.5°	1805.7	1896.0	2637.1	4386.4	10728.9	21518.0	36117.8	46654.8	51026.1	50431.8
75°	902.9	1053.3	1775.6	2227.0	4582.0	12000.4	22428.3	36783.7	40161.8	37859.6
77.5°	684.7	827.6	1467.1	1467.1	1595.0	4040.3	9498.7	20062.1	18504.7	15408.7
80°	436.4	564.3	1282.8	1109.8	665.9	1027.0	2475.3	5620.2	3931.2	2990.7
82.5°	255.8	368.7	1068.4	733.6	372.4	379.9	699.7	1196.3	1019.5	793.8
85°	101.6	240.8	733.6	289.7	146.7	94.0	210.7	255.8	210.7	158.0
87.5°	0.0	56.4	127.9	0.0	11.3	7.5	15.0	18.8	18.8	15.0
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°
9291.8	0°	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8	9291.8
9299.4	2.5°	9333.2	9340.7	9363.3	9367.1	9314.4	9246.7	9220.4	9209.1	9163.9	9160.2
9359.6	5°	9446.1	9479.9	9446.1	9348.3	9115.0	8787.8	8539.5	8336.3	8152.0	8095.6
9566.5	7.5°	9671.8	9705.7	9604.1	9220.4	8633.5	7982.7	7395.9	6982.0	6609.6	6470.4
9818.5	10°	9995.3	10040.5	9720.7	8945.8	7907.5	6861.7	5868.5	5168.8	4623.4	4401.4
10160.8	12.5°	10401.6	10420.4	9784.7	8528.2	6963.2	5469.8	4062.8	3314.2	2828.9	2648.4
10574.6	15°	10849.3	10822.9	9792.2	7960.1	5676.7	3867.2	2652.1	2178.1	1982.5	1922.3
10988.5	17.5°	11319.5	11210.4	9641.7	7140.0	4266.0	2644.6	1967.5	1854.6	1820.8	1805.7
11398.5	20°	11782.2	11537.7	9367.1	6067.9	3062.2	1975.0	1786.9	1753.0	1734.2	1726.7
11812.3	22.5°	12203.5	11786.0	8896.8	4822.7	2223.3	1745.5	1689.1	1659.0	1625.1	1610.1
12214.8	25°	12613.6	11928.9	8234.8	3660.3	1779.4	1632.7	1587.5	1531.1	1485.9	1467.1
12647.4	27.5°	13012.3	12019.2	7407.1	2708.6	1587.5	1527.3	1444.6	1365.6	1331.7	1324.2
13110.2	30°	13437.4	12049.3	6466.7	2020.1	1470.9	1395.7	1275.3	1185.0	1166.2	1169.9
13734.6	32.5°	13956.6	12094.4	5518.7	1655.2	1373.1	1237.7	1094.7	1000.7	985.6	1000.7
14645.0	35°	14577.3	12184.7	4604.5	1523.6	1286.6	1075.9	921.7	842.7	827.6	838.9
15811.2	37.5°	15419.9	12331.4	3750.6	1497.2	1215.1	940.5	774.9	711.0	711.0	714.8
17240.7	40°	16541.0	12722.7	2986.9	1478.4	1177.5	838.9	654.6	628.2	639.5	647.0
19061.4	42.5°	17906.5	13554.1	2471.6	1455.8	1136.1	793.8	594.4	583.1	601.9	609.4
21243.3	45°	19437.6	14607.4	2291.0	1418.2	1098.5	823.9	568.0	553.0	575.6	579.3
23688.6	47.5°	21021.4	15638.1	2268.4	1376.8	1060.9	869.0	560.5	526.7	553.0	556.8
26299.3	50°	22623.9	16311.5	2291.0	1312.9	1000.7	869.0	564.3	500.3	522.9	534.2
29007.9	52.5°	24237.8	16620.0	2275.9	1173.7	895.3	816.3	564.3	477.8	500.3	507.9
31934.6	55°	25802.7	16559.8	2046.5	966.8	759.9	722.3	549.2	458.9	474.0	477.8
34699.6	57.5°	27040.4	15720.9	1621.4	752.4	616.9	601.9	500.3	436.4	447.7	443.9
37235.1	60°	27687.4	13877.6	1158.7	579.3	485.3	474.0	440.1	406.3	413.8	395.0
39383.1	62.5°	27695.0	11439.9	774.9	458.9	387.5	376.2	376.2	364.9	357.4	319.8
41045.9	65°	27104.3	8735.1	515.4	364.9	312.2	293.4	316.0	312.2	285.9	233.2
41553.7	67.5°	25765.1	5725.6	391.2	285.9	240.8	229.5	252.0	263.3	244.5	195.6
39702.9	70°	23011.4	3333.0	323.5	222.0	180.6	169.3	203.1	225.7	203.1	158.0
33935.9	72.5°	19114.1	1798.2	263.3	165.5	124.1	112.9	161.8	184.3	161.8	116.6
21773.8	75°	12402.9	963.0	203.1	109.1	64.0	71.5	120.4	135.4	112.9	75.2
6391.4	77.5°	4164.4	425.1	127.9	52.7	30.1	30.1	71.5	82.8	52.7	26.3
1162.4	80°	929.2	176.8	52.7	22.6	11.3	11.3	15.0	15.0	7.5	0.0
357.4	82.5°	304.7	71.5	22.6	7.5	0.0	0.0	0.0	0.0	0.0	0.0
90.3	85°	116.6	26.3	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.1	87.5°	45.1	3.8	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>
9291.8
9167.7
8061.7
6414.0
4307.4
2591.9
1922.3
1801.9
1719.2
1606.3
1459.6
1316.7
1169.9
996.9
835.1
711.0
647.0
609.4
583.1
560.5
537.9
507.9
477.8
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