

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: P957216

Luminaire Tested: **GALN-SB9C-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957216
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-SB9C-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA 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: 54321 lumens
Efficiency: N/A
Efficacy: 120.8 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

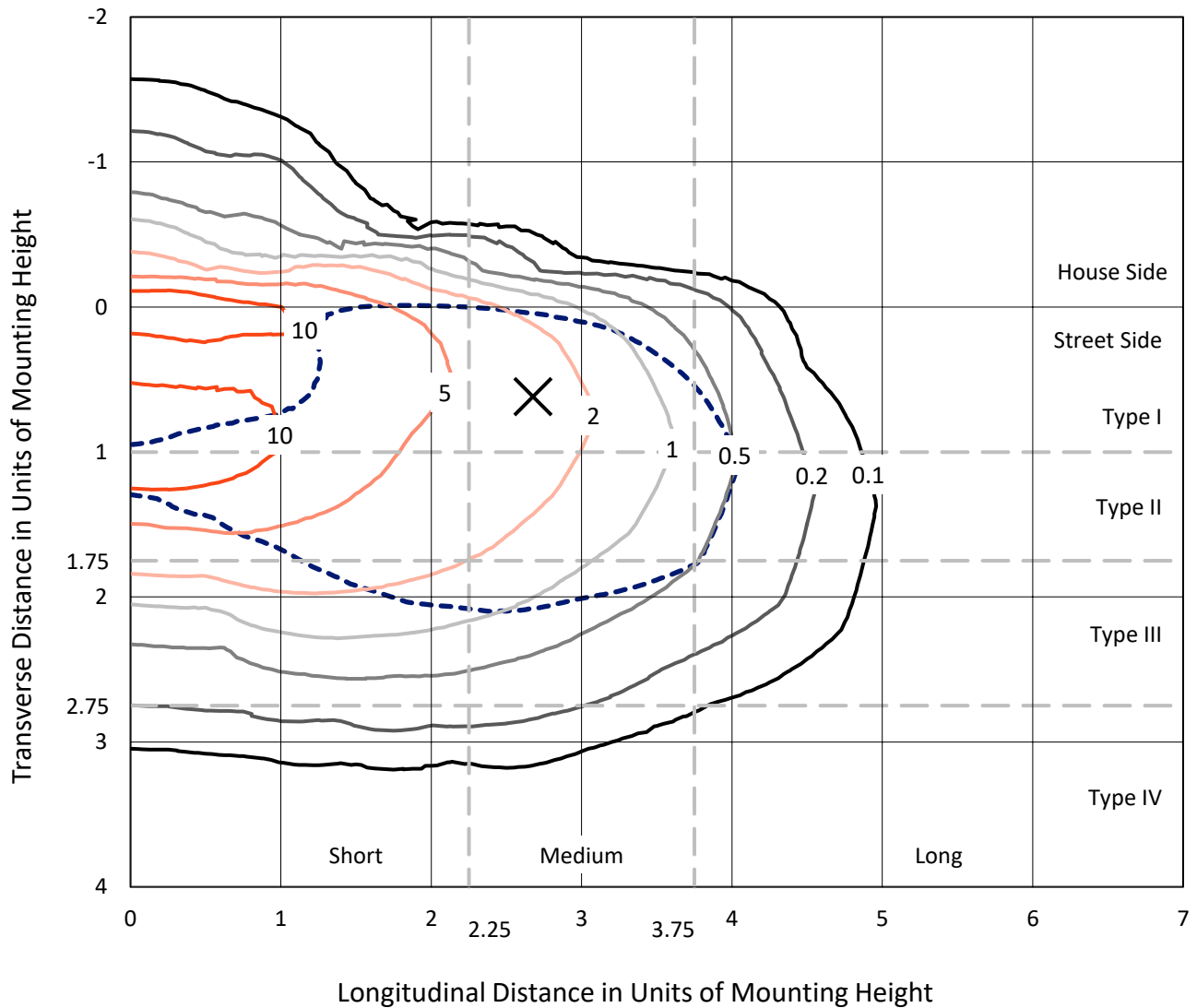
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

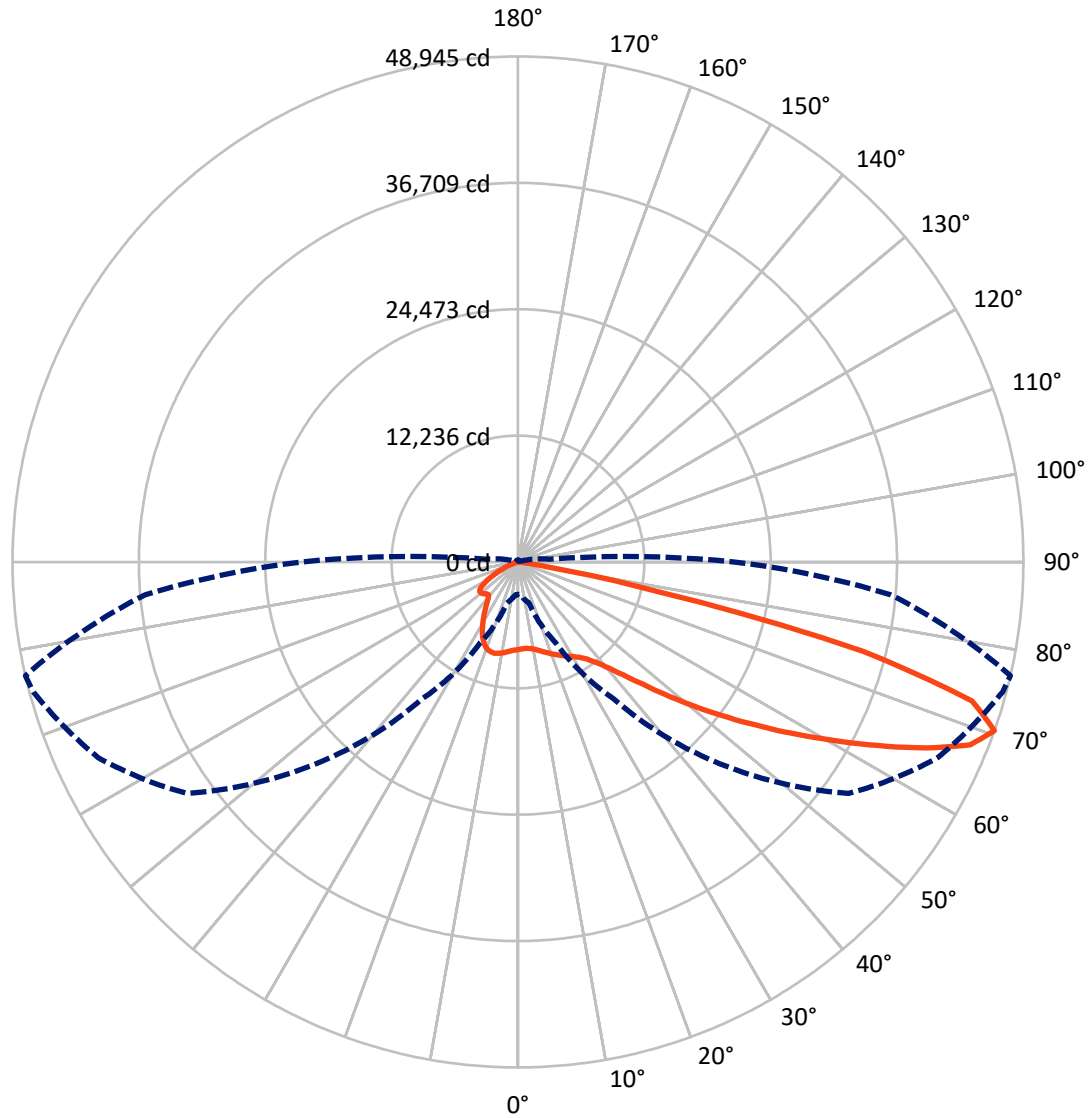
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	5726.2	0.0	5726.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	48594.8	0.0	48594.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	54321.0	0.0	54321.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.2	1.3
10°-20°	1733.5	3.2
20°-30°	2681.3	4.9
30°-40°	4865.3	9.0
40°-50°	9183.9	16.9
50°-60°	13269.9	24.4
60°-70°	14125.5	26.0
70°-80°	7485.5	13.8
80°-90°	245.8	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°	54321.0	100.0
0°-180°	54321.0	100.0



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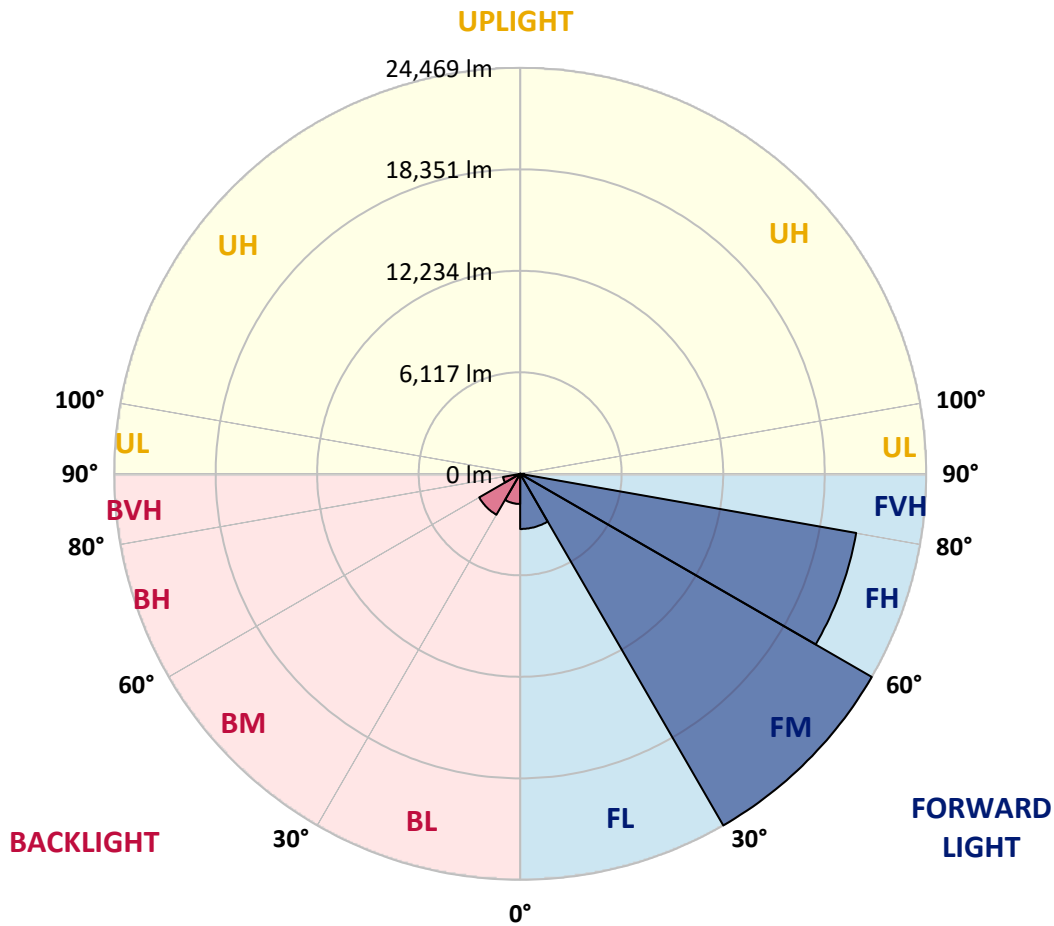
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3325.7	6.1			
FM (30°-60°)	24468.6	45.0			
FH (60°-80°)	20561.3	37.9			G5
FVH (80°-90°)	239.2	0.4			G3/500
BL (0°-30°)	1819.3	3.3	B3/2500		
BM (30°-60°)	2850.5	5.2	B3/5000		
BH (60°-80°)	1049.8	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.6	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°	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1
2.5°	7955.1	8027.1	8016.9	8064.9	8082.0	8150.6	8219.2	8311.9	8414.8	8411.3
5°	7505.7	7577.8	7594.9	7660.1	7742.4	7848.8	7989.4	8174.6	8366.8	8397.6
7.5°	6974.0	7049.5	7094.1	7224.4	7375.4	7594.9	7824.7	8095.8	8414.8	8459.4
10°	6442.3	6510.9	6569.2	6754.5	6994.6	7320.5	7694.4	8085.5	8514.3	8579.4
12.5°	6113.0	6178.2	6243.3	6404.6	6703.0	7100.9	7608.6	8133.5	8678.9	8771.5
15°	5996.3	6054.7	6106.1	6250.2	6528.1	6980.9	7591.5	8233.0	8888.2	9011.7
17.5°	6013.5	6044.4	6078.7	6188.4	6459.4	6926.0	7622.4	8404.5	9135.2	9244.9
20°	6113.0	6130.1	6133.6	6209.0	6449.2	6919.1	7684.1	8569.1	9368.4	9515.9
22.5°	6239.9	6246.8	6239.9	6291.4	6514.3	6970.6	7766.4	8768.1	9629.1	9766.4
25°	6833.4	6703.0	6538.3	6438.9	6624.1	7070.1	7889.9	9035.7	9913.9	10047.6
27.5°	8675.5	8301.6	7711.5	7049.5	6850.5	7214.1	8061.4	9306.7	10202.0	10322.1
30°	11666.8	11176.3	10174.6	8682.3	7577.8	7516.0	8284.4	9577.7	10507.3	10637.7
32.5°	14665.0	14544.9	13388.9	11323.8	9214.1	8188.4	8654.9	9944.7	10912.1	11015.0
35°	17697.4	17453.9	16507.1	14466.0	11735.4	9557.1	9272.4	10425.0	11443.8	11560.5
37.5°	20019.8	19872.3	19285.7	17604.8	14726.7	11670.2	10328.9	11169.4	12215.7	12346.0
40°	22071.2	22002.6	21803.6	20695.6	18071.4	14435.1	11972.1	12322.0	13286.0	13440.3
42.5°	23683.5	23844.7	23957.9	23649.2	21518.9	17591.1	14181.3	13941.2	14778.2	14936.0
45°	25333.5	25388.4	25844.7	26290.6	24942.5	20891.2	16671.8	15838.2	16634.0	16829.6
47.5°	26393.5	26613.1	27415.8	28201.3	27820.6	24163.8	19347.5	18078.2	18784.9	19151.9
50°	26472.4	26887.5	27992.1	29360.8	29916.5	27278.6	22256.5	20630.4	21381.7	21786.5
52.5°	25158.6	25803.5	27515.3	29518.6	31048.6	29916.5	25264.9	23182.7	24146.6	24674.9
55°	19289.2	20133.0	25721.2	28661.0	31093.2	31916.5	28194.5	25841.2	27227.1	27824.0
57.5°	16805.5	17230.9	20222.2	27172.2	30266.4	32722.6	30842.8	28372.9	30578.6	31319.6
60°	13982.3	14541.5	16959.9	24736.6	29144.7	32801.5	33182.3	31638.6	34211.4	35045.0
62.5°	9502.2	10109.4	12514.1	20551.5	27611.3	32763.8	35099.9	35000.4	38249.0	39144.3
65°	5886.6	6267.3	7852.2	16781.5	25467.3	32804.9	37106.7	39082.6	42509.6	43418.6
67.5°	4651.6	4826.6	5653.3	12884.6	21772.8	31878.7	39110.0	42921.2	46519.7	47240.1
70°	3125.1	3231.4	4113.1	8637.8	16198.4	27604.5	39072.3	44849.1	48584.8	48945.0
72.5°	1646.6	1728.9	2404.7	3999.8	9783.5	19621.9	32935.3	42543.9	46530.0	45988.0
75°	823.3	960.5	1619.2	2030.8	4178.2	10943.0	20452.1	33542.5	36623.0	34523.6
77.5°	624.3	754.7	1337.9	1337.9	1454.5	3684.3	8661.8	18294.3	16874.2	14050.9
80°	397.9	514.6	1169.8	1012.0	607.2	936.5	2257.2	5125.0	3584.8	2727.2
82.5°	233.3	336.2	974.2	668.9	339.6	346.5	638.1	1090.9	929.6	723.8
85°	92.6	219.5	668.9	264.1	133.8	85.8	192.1	233.3	192.1	144.1
87.5°	0.0	51.5	116.6	0.0	10.3	6.9	13.7	17.2	17.2	13.7
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°
8473.1	0°	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1	8473.1
8480.0	2.5°	8510.8	8517.7	8538.3	8541.7	8493.7	8431.9	8407.9	8397.6	8356.5	8353.0
8534.8	5°	8613.7	8644.6	8613.7	8524.6	8311.9	8013.4	7787.0	7601.8	7433.7	7382.2
8723.5	7.5°	8819.6	8850.4	8757.8	8407.9	7872.8	7279.3	6744.2	6366.8	6027.2	5900.3
8953.4	10°	9114.6	9155.7	8864.2	8157.5	7210.7	6257.1	5351.4	4713.4	4216.0	4013.6
9265.5	12.5°	9485.1	9502.2	8922.5	7776.7	6349.7	4987.8	3704.8	3022.2	2579.7	2415.0
9642.9	15°	9893.3	9869.3	8929.3	7258.7	5176.5	3526.5	2418.4	1986.2	1807.8	1752.9
10020.2	17.5°	10322.1	10222.6	8792.1	6510.9	3890.1	2411.6	1794.1	1691.2	1660.3	1646.6
10394.1	20°	10744.0	10521.0	8541.7	5533.2	2792.3	1801.0	1629.4	1598.6	1581.4	1574.6
10771.5	22.5°	11128.2	10747.5	8112.9	4397.8	2027.4	1591.7	1540.3	1512.8	1481.9	1468.2
11138.5	25°	11502.1	10877.8	7509.2	3337.8	1622.6	1488.8	1447.6	1396.2	1355.0	1337.9
11533.0	27.5°	11865.8	10960.1	6754.5	2469.9	1447.6	1392.7	1317.3	1245.2	1214.4	1207.5
11955.0	30°	12253.4	10987.6	5896.9	1842.1	1341.3	1272.7	1162.9	1080.6	1063.4	1066.9
12524.4	32.5°	12726.8	11028.7	5032.4	1509.4	1252.1	1128.6	998.2	912.5	898.8	912.5
13354.6	35°	13292.8	11111.1	4198.8	1389.3	1173.2	981.1	840.4	768.4	754.7	765.0
14418.0	37.5°	14061.2	11244.9	3420.1	1365.3	1108.0	857.6	706.7	648.3	648.3	651.8
15721.5	40°	15083.5	11601.6	2723.7	1348.1	1073.7	765.0	596.9	572.9	583.2	590.0
17381.9	42.5°	16328.7	12359.7	2253.8	1327.6	1036.0	723.8	542.0	531.7	548.9	555.7
19371.5	45°	17724.9	13320.3	2089.1	1293.3	1001.7	751.3	518.0	504.3	524.9	528.3
21601.2	47.5°	19169.1	14260.2	2068.5	1255.5	967.4	792.4	511.1	480.3	504.3	507.7
23981.9	50°	20630.4	14874.2	2089.1	1197.2	912.5	792.4	514.6	456.2	476.8	487.1
26451.8	52.5°	22102.1	15155.5	2075.4	1070.3	816.4	744.4	514.6	435.7	456.2	463.1
29120.7	55°	23529.1	15100.6	1866.1	881.6	692.9	658.6	500.8	418.5	432.2	435.7
31642.0	57.5°	24657.7	14335.7	1478.5	686.1	562.6	548.9	456.2	397.9	408.2	404.8
33954.1	60°	25247.8	12654.8	1056.6	528.3	442.5	432.2	401.4	370.5	377.3	360.2
35912.9	62.5°	25254.6	10431.9	706.7	418.5	353.3	343.0	343.0	332.7	325.9	291.6
37429.1	65°	24716.1	7965.4	470.0	332.7	284.7	267.6	288.2	284.7	260.7	212.7
37892.2	67.5°	23494.8	5221.1	356.8	260.7	219.5	209.3	229.8	240.1	223.0	178.4
36204.5	70°	20983.8	3039.3	295.0	202.4	164.7	154.4	185.2	205.8	185.2	144.1
30945.7	72.5°	17429.9	1639.7	240.1	150.9	113.2	102.9	147.5	168.1	147.5	106.3
19855.2	75°	11310.0	878.2	185.2	99.5	58.3	65.2	109.8	123.5	102.9	68.6
5828.3	77.5°	3797.5	387.6	116.6	48.0	27.4	27.4	65.2	75.5	48.0	24.0
1060.0	80°	847.3	161.2	48.0	20.6	10.3	10.3	13.7	13.7	6.9	0.0
325.9	82.5°	277.9	65.2	20.6	6.9	0.0	0.0	0.0	0.0	0.0	0.0
82.3	85°	106.3	24.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.4	87.5°	41.2	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>
8473.1
8359.9
7351.4
5848.8
3927.8
2363.5
1752.9
1643.2
1567.7
1464.8
1331.0
1200.6
1066.9
909.1
761.5
648.3
590.0
555.7
531.7
511.1
490.5
463.1
435.7
404.8
356.8
281.3
205.8
175.0
137.2
102.9
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