

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: P954654

Luminaire Tested: **GALN-SB7D-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954654
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-SB7D-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 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: 54137 lumens
Efficiency: N/A
Efficacy: 105.6 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

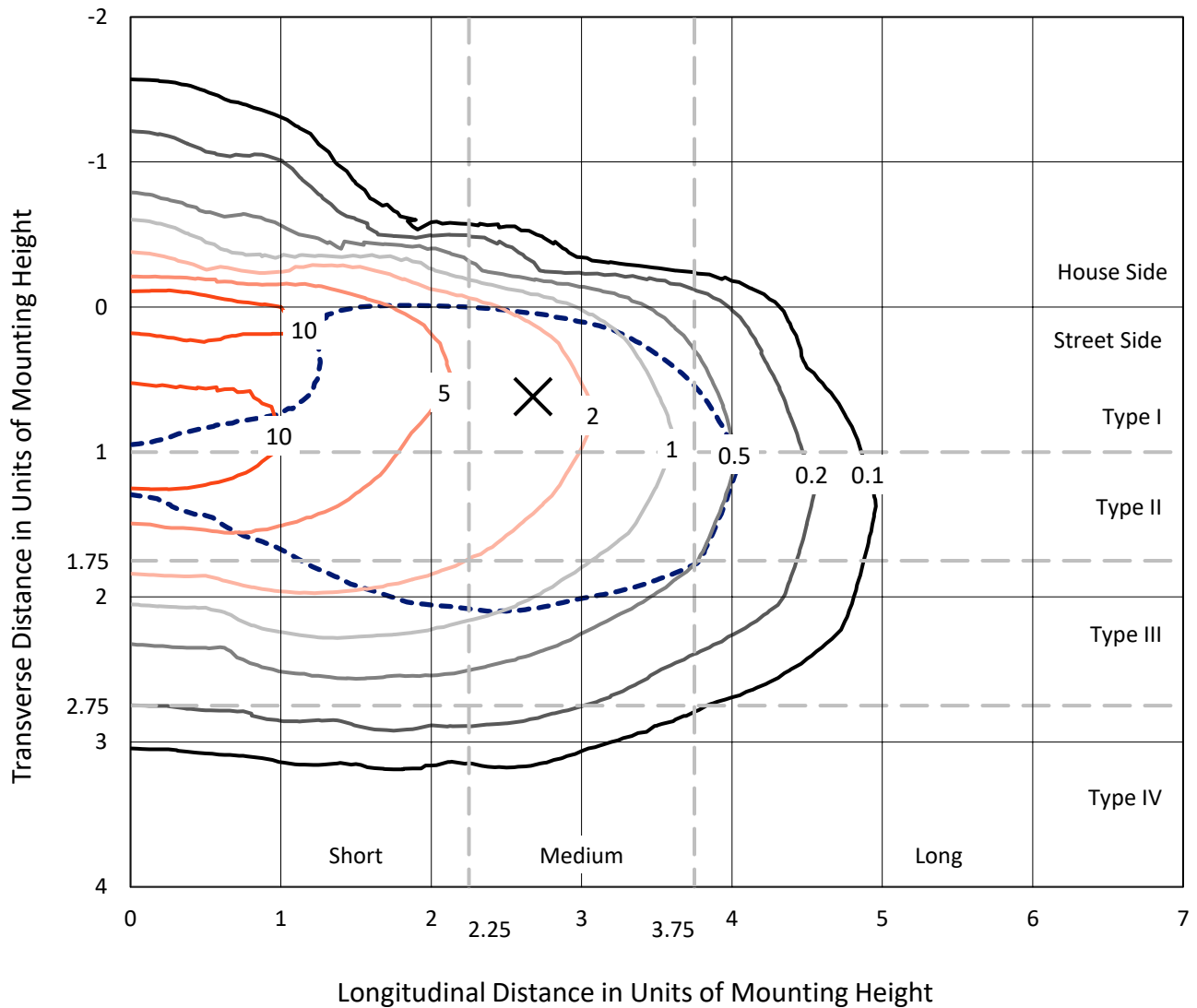
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

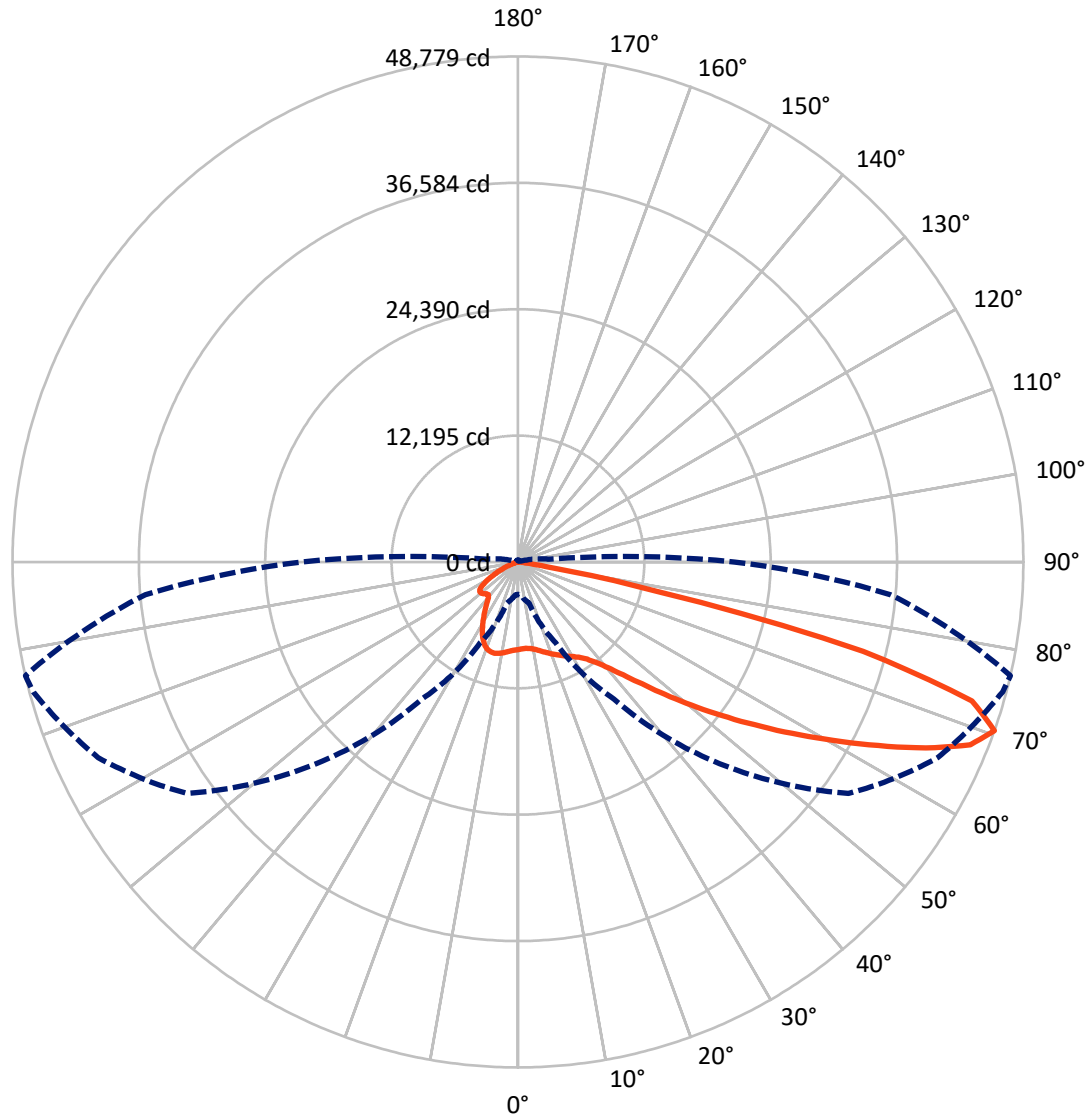
✕ Max cd
 - - - 1/2 Max cd



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	5706.8	0.0	5706.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	48430.2	0.0	48430.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	54137.0	0.0	54137.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.8	1.3
10°-20°	1727.7	3.2
20°-30°	2672.2	4.9
30°-40°	4848.8	9.0
40°-50°	9152.8	16.9
50°-60°	13225.0	24.4
60°-70°	14077.6	26.0
70°-80°	7460.2	13.8
80°-90°	245.0	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°	54137.0	100.0
0°-180°	54137.0	100.0

Coefficient of Utilization



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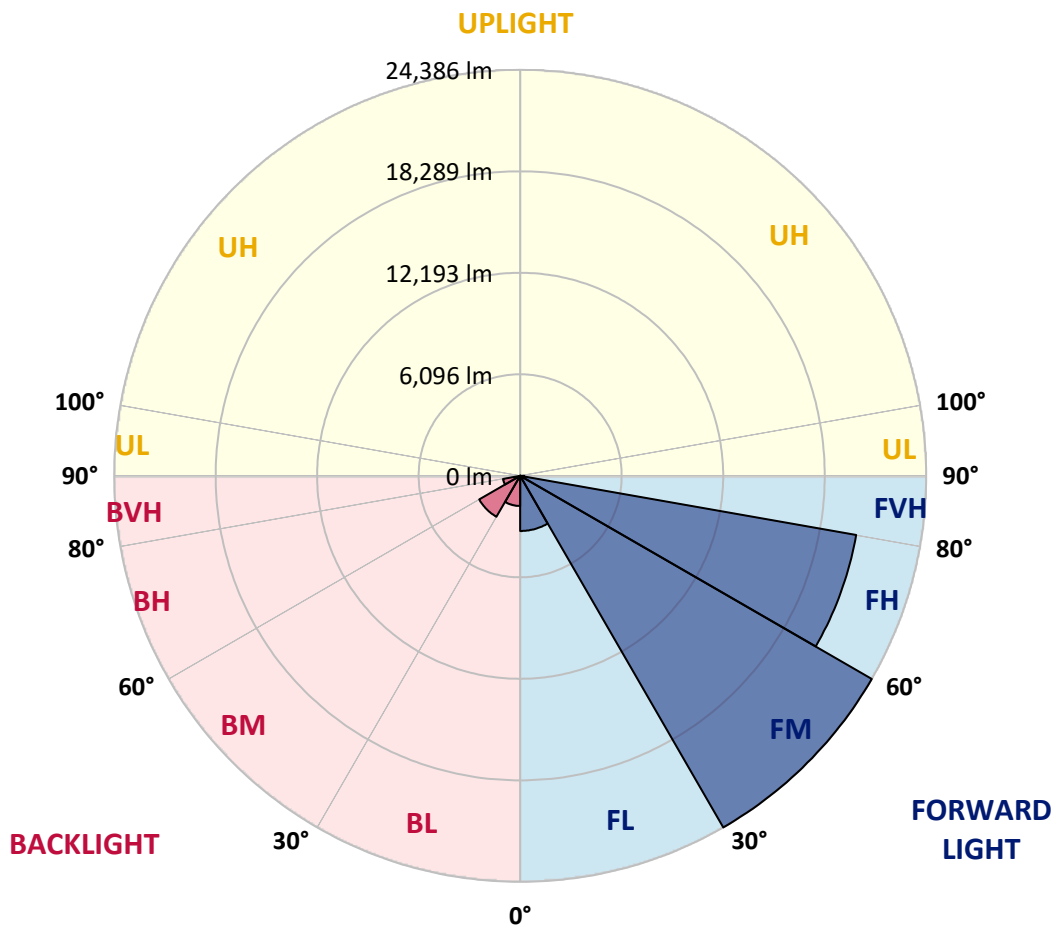
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3314.5	6.1			
FM (30°-60°)	24385.7	45.0			
FH (60°-80°)	20491.6	37.9			G5
FVH (80°-90°)	238.4	0.4			G3/500
BL (0°-30°)	1813.1	3.3	B3/2500		
BM (30°-60°)	2840.9	5.2	B3/5000		
BH (60°-80°)	1046.2	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°	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4
2.5°	7928.2	8000.0	7989.7	8037.6	8054.7	8123.0	8191.4	8283.7	8386.3	8382.9
5°	7480.3	7552.1	7569.2	7634.1	7716.2	7822.2	7962.3	8147.0	8338.4	8369.2
7.5°	6950.4	7025.6	7070.0	7200.0	7350.4	7569.2	7798.2	8068.3	8386.3	8430.7
10°	6420.5	6488.9	6547.0	6731.6	6970.9	7295.7	7668.3	8058.1	8485.4	8550.4
12.5°	6092.3	6157.2	6222.2	6382.9	6680.3	7076.9	7582.9	8105.9	8649.5	8741.8
15°	5976.0	6034.2	6085.4	6229.0	6505.9	6957.2	7565.8	8205.1	8858.1	8981.1
17.5°	5993.1	6023.9	6058.1	6167.5	6437.6	6902.5	7596.5	8376.0	9104.2	9213.6
20°	6092.3	6109.4	6112.8	6188.0	6427.3	6895.7	7658.1	8540.1	9336.7	9483.7
22.5°	6218.8	6225.6	6218.8	6270.0	6492.3	6947.0	7740.1	8738.4	9596.5	9733.3
25°	6810.2	6680.3	6516.2	6417.1	6601.7	7046.1	7863.2	9005.1	9880.3	10013.6
27.5°	8646.1	8273.5	7685.4	7025.6	6827.3	7189.7	8034.1	9275.2	10167.5	10287.1
30°	11627.3	11138.4	10140.1	8652.9	7552.1	7490.6	8256.4	9545.2	10471.7	10601.6
32.5°	14615.3	14495.6	13343.5	11285.4	9182.9	8160.6	8625.6	9911.1	10875.1	10977.7
35°	17637.5	17394.8	16451.2	14417.0	11695.7	9524.7	9241.0	10389.7	11405.1	11521.3
37.5°	19952.0	19805.0	19220.4	17545.2	14676.8	11630.7	10294.0	11131.6	12174.3	12304.2
40°	21996.5	21928.1	21729.8	20625.5	18010.1	14386.2	11931.6	12280.3	13240.9	13394.8
42.5°	23603.3	23764.0	23876.8	23569.1	21446.0	17531.5	14133.2	13893.9	14728.1	14885.4
45°	25247.7	25302.4	25757.1	26201.6	24858.0	20820.4	16615.3	15784.5	16577.7	16772.5
47.5°	26304.1	26522.9	27322.9	28105.8	27726.3	24081.9	19281.9	18017.0	18721.3	19087.1
50°	26382.7	26796.4	27897.3	29261.4	29815.2	27186.2	22181.1	20560.6	21309.3	21712.7
52.5°	25073.4	25716.1	27422.1	29418.6	30943.4	29815.2	25179.3	23104.1	24064.8	24591.3
55°	19223.8	20064.8	25634.0	28563.9	30987.9	31808.4	28099.0	25753.7	27134.9	27729.7
57.5°	16748.6	17172.5	20153.7	27080.2	30163.9	32611.8	30738.3	28276.8	30475.0	31213.5
60°	13935.0	14492.2	16902.5	24652.8	29046.0	32690.4	33069.9	31531.4	34095.5	34926.3
62.5°	9470.0	10075.2	12471.7	20481.9	27517.8	32652.8	34981.0	34881.8	38119.4	39011.7
65°	5866.6	6246.1	7825.6	16724.7	25381.0	32693.8	36981.0	38950.2	42365.6	43271.5
67.5°	4635.9	4810.2	5634.2	12840.9	21699.0	31770.8	38977.5	42775.8	46362.1	47080.1
70°	3114.5	3220.5	4099.1	8608.5	16143.5	27510.9	38939.9	44697.2	48420.2	48779.2
72.5°	1641.0	1723.1	2396.6	3986.3	9750.4	19555.4	32823.7	42399.7	46372.4	45832.2
75°	820.5	957.3	1613.7	2023.9	4164.1	10905.9	20382.8	33428.9	36498.9	34406.6
77.5°	622.2	752.1	1333.3	1333.3	1449.6	3671.8	8632.4	18232.4	16817.0	14003.3
80°	396.6	512.8	1165.8	1008.5	605.1	933.3	2249.6	5107.7	3572.6	2717.9
82.5°	232.5	335.0	970.9	666.7	338.5	345.3	635.9	1087.2	926.5	721.4
85°	92.3	218.8	666.7	263.2	133.3	85.5	191.5	232.5	191.5	143.6
87.5°	0.0	51.3	116.2	0.0	10.3	6.8	13.7	17.1	17.1	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°
8444.4	0°	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4	8444.4
8451.2	2.5°	8482.0	8488.8	8509.4	8512.8	8464.9	8403.4	8379.4	8369.2	8328.2	8324.7
8505.9	5°	8584.6	8615.3	8584.6	8495.7	8283.7	7986.3	7760.6	7576.0	7408.5	7357.2
8694.0	7.5°	8789.7	8820.5	8728.2	8379.4	7846.1	7254.7	6721.3	6345.3	6006.8	5880.3
8923.0	10°	9083.7	9124.7	8834.1	8129.9	7186.3	6235.9	5333.3	4697.4	4201.7	4000.0
9234.1	12.5°	9452.9	9470.0	8892.3	7750.4	6328.2	4970.9	3692.3	3011.9	2570.9	2406.8
9610.2	15°	9859.8	9835.8	8899.1	7234.1	5158.9	3514.5	2410.2	1979.5	1801.7	1747.0
9986.3	17.5°	10287.1	10188.0	8762.3	6488.9	3876.9	2403.4	1788.0	1685.5	1654.7	1641.0
10358.9	20°	10707.6	10485.4	8512.8	5514.5	2782.9	1794.9	1623.9	1593.2	1576.1	1569.2
10735.0	22.5°	11090.5	10711.0	8085.4	4382.9	2020.5	1586.3	1535.0	1507.7	1476.9	1463.2
11100.8	25°	11463.2	10841.0	7483.7	3326.5	1617.1	1483.8	1442.7	1391.4	1350.4	1333.3
11493.9	27.5°	11825.6	10923.0	6731.6	2461.5	1442.7	1388.0	1312.8	1241.0	1210.2	1203.4
11914.5	30°	12211.9	10950.4	5876.9	1835.9	1336.7	1268.4	1159.0	1076.9	1059.8	1063.2
12482.0	32.5°	12683.7	10991.4	5015.4	1504.3	1247.9	1124.8	994.9	909.4	895.7	909.4
13309.3	35°	13247.8	11073.4	4184.6	1384.6	1169.2	977.8	837.6	765.8	752.1	762.4
14369.1	37.5°	14013.6	11206.8	3408.5	1360.7	1104.3	854.7	704.3	646.2	646.2	649.6
15668.3	40°	15032.4	11562.3	2714.5	1343.6	1070.1	762.4	594.9	570.9	581.2	588.0
17323.0	42.5°	16273.4	12317.9	2246.1	1323.1	1032.5	721.4	540.2	529.9	547.0	553.8
19305.9	45°	17664.9	13275.1	2082.0	1288.9	998.3	748.7	516.2	502.6	523.1	526.5
21528.1	47.5°	19104.2	14211.9	2061.5	1251.3	964.1	789.7	509.4	478.6	502.6	506.0
23900.7	50°	20560.6	14823.8	2082.0	1193.2	909.4	789.7	512.8	454.7	475.2	485.5
26362.2	52.5°	22027.2	15104.2	2068.4	1066.7	813.7	741.9	512.8	434.2	454.7	461.5
29022.0	55°	23449.4	15049.5	1859.8	878.6	690.6	656.4	499.1	417.1	430.8	434.2
31534.9	57.5°	24574.2	14287.1	1473.5	683.8	560.7	547.0	454.7	396.6	406.8	403.4
33839.1	60°	25162.2	12611.9	1053.0	526.5	441.0	430.8	400.0	369.2	376.1	359.0
35791.2	62.5°	25169.1	10396.5	704.3	417.1	352.1	341.9	341.9	331.6	324.8	290.6
37302.3	65°	24632.3	7938.4	468.4	331.6	283.8	266.7	287.2	283.8	259.8	212.0
37763.9	67.5°	23415.2	5203.4	355.6	259.8	218.8	208.5	229.1	239.3	222.2	177.8
36081.8	70°	20912.7	3029.0	294.0	201.7	164.1	153.8	184.6	205.1	184.6	143.6
30840.8	72.5°	17370.8	1634.2	239.3	150.4	112.8	102.6	147.0	167.5	147.0	106.0
19787.9	75°	11271.7	875.2	184.6	99.1	58.1	65.0	109.4	123.1	102.6	68.4
5808.5	77.5°	3784.6	386.3	116.2	47.9	27.4	27.4	65.0	75.2	47.9	23.9
1056.4	80°	844.4	160.7	47.9	20.5	10.3	10.3	13.7	13.7	6.8	0.0
324.8	82.5°	276.9	65.0	20.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
82.1	85°	106.0	23.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.4	87.5°	41.0	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>
8444.4
8331.6
7326.5
5829.0
3914.5
2355.5
1747.0
1637.6
1562.4
1459.8
1326.5
1196.6
1063.2
906.0
759.0
646.2
588.0
553.8
529.9
509.4
488.9
461.5
434.2
403.4
355.6
280.3
205.1
174.4
136.8
102.6
61.5
20.5
0.0
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0.0

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