

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: P943386

Luminaire Tested: **GALN-SB7D-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
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-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50999 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

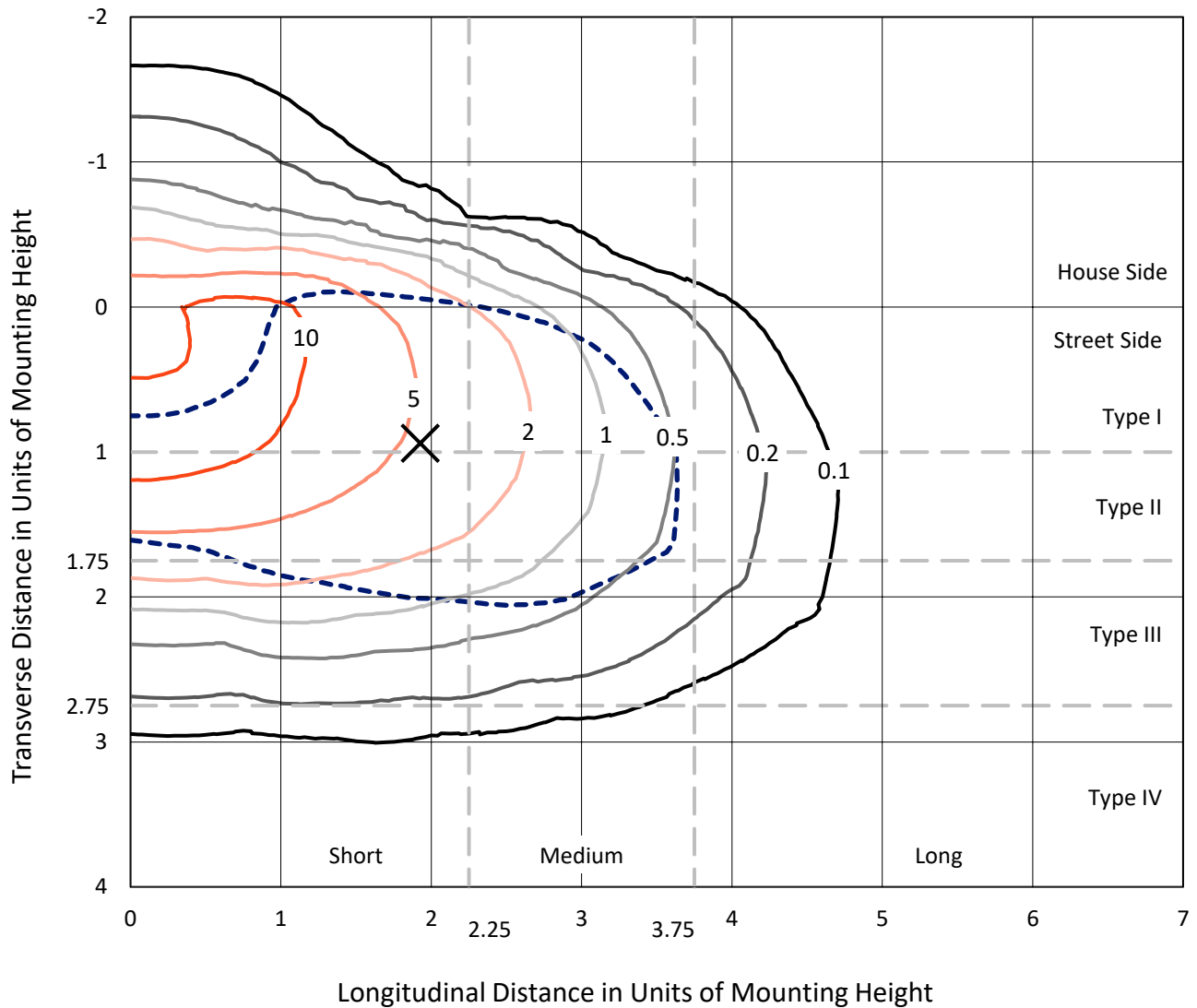
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

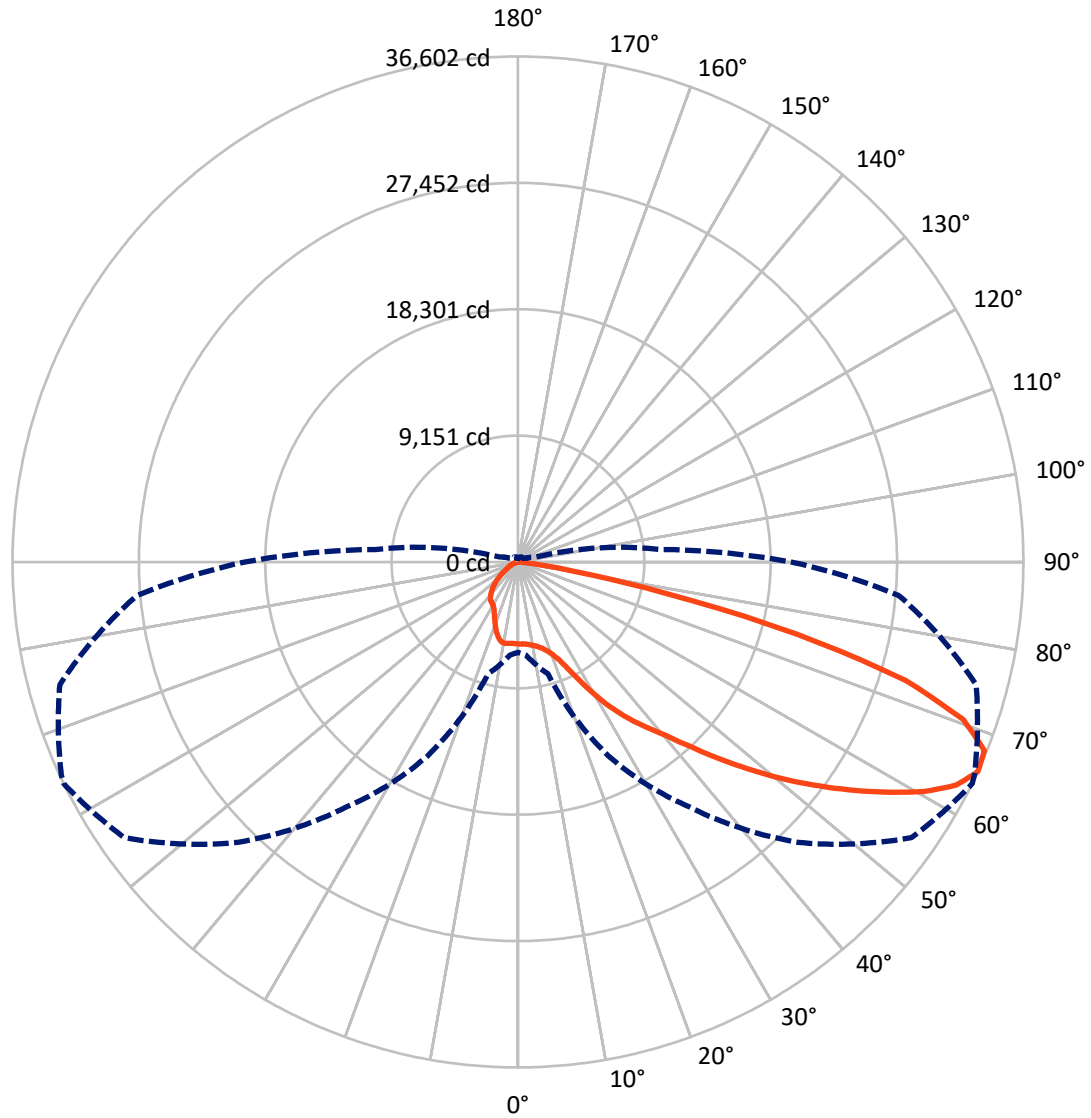
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6820.1	0.0	6820.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	44178.9	0.0	44178.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	50999.0	0.0	50999.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.3	1.1
10°-20°	1484.3	2.9
20°-30°	2812.7	5.5
30°-40°	5691.5	11.2
40°-50°	9695.5	19.0
50°-60°	13185.2	25.9
60°-70°	12381.6	24.3
70°-80°	4960.6	9.7
80°-90°	240.3	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°	50999.0	100.0
0°-180°	50999.0	100.0

Coefficient of Utilization



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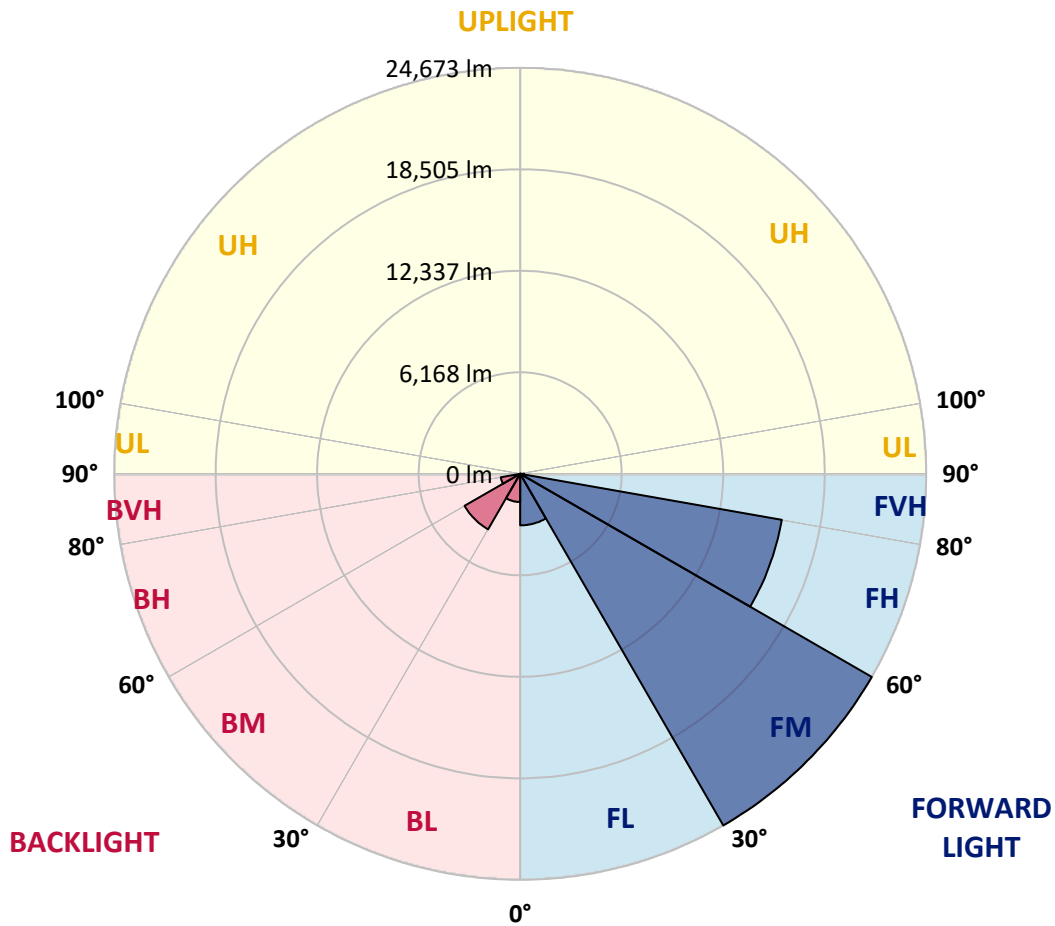
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3131.9	6.1			
FM (30°-60°)	24673.3	48.4			
FH (60°-80°)	16145.1	31.7			G5
FVH (80°-90°)	228.6	0.4			G3/500
BL (0°-30°)	1712.3	3.4	B3/2500		
BM (30°-60°)	3899.0	7.6	B3/5000		
BH (60°-80°)	1197.0	2.3	B3/2500		G3/2500
BVH (80°-90°)	11.7	0.0			G1/100
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7
2.5°	5911.2	5952.2	5942.0	5931.7	5928.3	5935.1	5938.6	5935.1	5935.1	5935.1
5°	5798.4	5832.6	5832.6	5856.5	5890.7	5931.7	5962.5	5969.3	5976.2	5986.4
7.5°	5583.0	5610.3	5630.9	5709.5	5795.0	5904.4	5996.7	6044.5	6051.4	6089.0
10°	5436.0	5470.2	5504.4	5586.4	5709.5	5873.6	6030.9	6147.1	6164.2	6253.1
12.5°	5429.1	5463.3	5507.8	5596.7	5740.3	5914.6	6106.1	6273.6	6304.4	6434.3
15°	5500.9	5542.0	5583.0	5692.4	5846.2	6058.2	6263.3	6471.9	6502.7	6687.3
17.5°	5647.9	5702.6	5733.4	5842.8	6006.9	6242.8	6512.9	6752.2	6779.6	6995.0
20°	5938.6	6003.5	6013.8	6102.7	6263.3	6516.3	6837.7	7135.2	7169.3	7415.5
22.5°	6540.3	6632.6	6550.5	6595.0	6738.6	6991.6	7340.3	7716.4	7764.2	8044.6
25°	7600.1	7730.0	7518.1	7442.8	7504.4	7767.6	8205.3	8680.5	8735.2	8960.8
27.5°	9682.2	9514.7	9193.3	8878.8	8694.1	8844.6	9336.9	9924.9	9993.3	10212.1
30°	11969.4	11822.4	11388.2	10690.8	10253.1	10229.2	10683.9	11340.3	11419.0	11627.5
32.5°	14260.0	14119.9	13648.1	12789.9	12031.0	11654.9	11969.4	12697.6	12738.7	12872.0
35°	16513.1	16369.5	15897.7	15019.0	14085.7	13231.0	13169.4	13990.0	14003.6	14143.8
37.5°	18779.8	18660.1	18157.5	17296.0	16376.3	15196.8	14625.9	15213.9	15231.0	15367.8
40°	20396.9	20448.2	20102.9	19436.2	18646.4	17357.5	16260.1	16516.5	16413.9	16643.0
42.5°	21784.9	21887.5	21586.6	21251.6	20793.5	19658.4	18284.0	18239.6	18075.5	18198.6
45°	22985.0	23070.4	22800.3	22721.7	22711.5	21914.9	20496.0	20229.4	20000.3	19976.4
47.5°	23426.0	23590.1	23706.3	23969.6	24482.4	24147.4	22783.2	22369.6	22113.2	21925.1
50°	23593.5	23767.9	24164.5	24930.3	26144.0	26287.6	25060.2	24595.2	24280.7	23938.8
52.5°	23367.9	23679.0	24212.3	25501.2	27261.9	28003.8	27244.9	26838.0	26479.0	25921.8
55°	22037.9	22349.1	23439.7	25494.4	27819.2	29207.3	29309.8	29128.6	28725.2	27846.6
57.5°	19234.5	19696.0	21422.5	24626.0	27809.0	30243.2	31333.8	31463.7	31012.4	29754.3
60°	15350.7	15976.3	18082.3	22701.2	26950.8	30803.9	33108.2	33757.8	33279.1	31634.7
62.5°	10711.3	11436.1	13429.3	19685.8	24988.4	30400.5	34403.9	35604.0	35241.6	33316.7
65°	6533.4	6765.9	8372.8	15490.8	21651.6	28711.5	34803.9	36602.3	36482.6	34345.8
67.5°	4352.2	4547.1	5008.6	10622.4	16807.1	25337.1	33846.7	36427.9	36462.1	34178.3
70°	2622.3	2789.8	3090.6	6177.9	10892.5	20055.0	30882.5	34205.6	34403.9	31938.9
72.5°	1080.4	1193.2	1466.7	2800.0	5641.1	12728.4	24591.8	29368.0	29829.5	26855.1
75°	612.0	670.1	861.6	1405.1	2447.9	5931.7	14896.0	20848.2	21528.5	18509.7
77.5°	406.8	434.2	557.3	909.4	1377.8	2024.0	6365.9	10861.7	12160.9	10109.6
80°	273.5	297.4	382.9	608.6	895.7	868.4	2027.4	4024.0	4950.5	3473.6
82.5°	184.6	188.0	273.5	400.0	567.5	420.5	598.3	1251.3	1572.7	1005.1
85°	106.0	102.6	201.7	232.5	253.0	174.4	181.2	376.1	492.3	423.9
87.5°	13.7	20.5	78.6	61.5	34.2	37.6	37.6	65.0	95.7	102.6
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°
5931.7	0°	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7	5931.7
5938.6	2.5°	5938.6	5935.1	5924.9	5914.6	5890.7	5877.0	5883.8	5877.0	5873.6	5877.0
5983.0	5°	5983.0	5972.7	5945.4	5911.2	5863.3	5805.2	5767.6	5712.9	5661.6	5630.9
6102.7	7.5°	6102.7	6092.4	6054.8	5959.1	5805.2	5562.5	5340.3	5145.4	4998.4	4912.9
6294.1	10°	6294.1	6277.0	6218.9	6006.9	5603.5	5073.6	4632.5	4266.7	4027.4	3914.6
6519.8	12.5°	6519.8	6499.2	6396.7	5962.5	5220.6	4393.2	3784.7	3377.8	3155.6	3056.5
6779.6	15°	6786.4	6759.1	6557.4	5750.5	4663.3	3641.1	3083.8	2779.5	2635.9	2547.0
7111.2	17.5°	7118.1	7070.2	6677.0	5432.6	4058.2	3066.7	2653.0	2424.0	2297.5	2212.0
7545.4	20°	7548.8	7470.2	6772.8	5053.1	3500.9	2704.3	2362.4	2171.0	2075.2	2000.0
8160.8	22.5°	8150.6	8037.7	6889.0	4642.8	3107.7	2454.7	2147.0	2006.9	1928.2	1842.8
9018.9	25°	8895.9	8762.5	7032.6	4263.3	2837.6	2239.3	1989.8	1873.5	1781.2	1682.1
10143.7	27.5°	9938.6	9699.3	7203.5	3952.2	2605.2	2054.7	1846.2	1716.3	1610.3	1528.2
11419.0	30°	11101.0	10707.9	7354.0	3764.2	2393.2	1883.8	1658.1	1528.2	1429.1	1371.0
12564.3	32.5°	12201.9	11668.6	7453.1	3682.1	2201.7	1688.9	1453.0	1312.8	1237.6	1220.5
13685.7	35°	13241.2	12536.9	7442.8	3603.5	2030.8	1494.0	1251.3	1107.7	1049.6	1059.8
14892.5	37.5°	14437.8	13463.5	7371.1	3480.4	1890.6	1316.3	1076.9	950.4	899.2	902.6
16359.2	40°	15829.3	14533.6	7326.6	3247.9	1736.8	1152.2	933.3	830.8	793.2	779.5
17904.5	42.5°	17313.1	15569.5	7333.4	2984.7	1545.3	1005.1	834.2	748.7	714.5	704.3
19624.2	45°	18803.7	16557.5	7343.7	2711.2	1343.6	892.3	762.4	690.6	670.1	656.4
21367.8	47.5°	20205.4	17398.6	7152.2	2417.1	1145.3	806.8	704.3	656.4	639.3	622.2
23118.3	50°	21511.4	17959.2	6690.7	2075.2	988.0	738.5	659.8	625.7	608.6	591.5
24704.6	52.5°	22526.8	18048.1	5928.3	1723.1	878.6	687.2	632.5	601.7	581.2	564.1
25986.7	55°	22978.1	17490.9	4844.5	1394.9	793.2	642.7	605.1	574.4	550.4	533.3
26995.3	57.5°	22861.9	16318.2	3777.8	1121.4	711.1	598.3	570.9	550.4	523.1	495.7
27812.4	60°	22290.9	14748.9	2847.9	933.3	635.9	550.4	533.3	516.2	478.6	437.6
28126.9	62.5°	21302.9	12776.3	2030.8	772.7	553.9	495.7	488.9	475.2	420.5	345.3
27662.0	65°	19791.8	10379.6	1367.5	642.7	475.2	434.2	437.6	413.7	341.9	256.4
25959.4	67.5°	17583.2	7589.9	875.2	526.5	396.6	362.4	365.8	352.1	290.6	218.8
22732.0	70°	14769.5	5025.7	570.9	400.0	318.0	280.3	300.9	304.3	246.2	177.8
17446.4	72.5°	10827.5	2967.6	400.0	297.4	232.5	194.9	246.2	253.0	198.3	133.3
10495.9	75°	6171.0	1408.6	300.9	215.4	143.6	136.8	191.5	191.5	136.8	88.9
4543.7	77.5°	2591.5	588.0	212.0	140.2	82.1	78.6	129.9	119.7	68.4	41.0
1107.7	80°	748.7	263.3	112.8	68.4	34.2	30.8	51.3	37.6	17.1	6.8
420.5	82.5°	294.0	116.2	44.4	27.4	13.7	13.7	6.8	0.0	0.0	0.0
239.3	85°	174.4	47.9	20.5	10.3	3.4	0.0	0.0	0.0	0.0	0.0
51.3	87.5°	44.4	10.3	6.8	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>
5931.7
5890.7
5637.7
4916.3
3904.3
3046.2
2550.5
2205.2
1986.4
1829.1
1671.8
1511.1
1360.7
1230.8
1059.8
916.3
776.1
700.9
656.4
622.2
591.5
560.7
529.9
492.3
430.8
338.5
249.6
208.6
170.9
126.5
82.1
41.0
6.8
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