

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: P943416

Luminaire Tested: **GALN-SB7D-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943416
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-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 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: 54289 lumens
Efficiency: N/A
Efficacy: 105.9 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

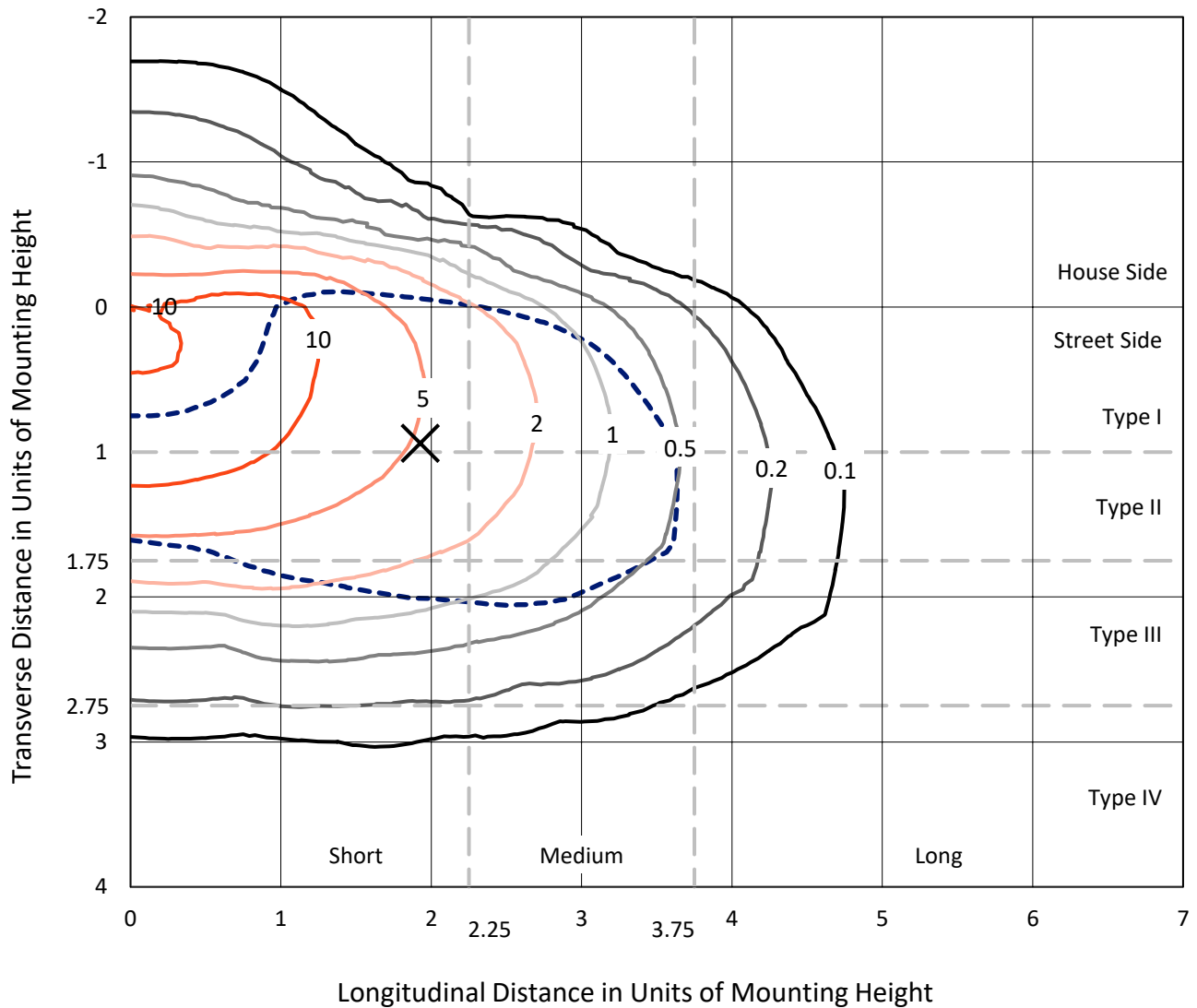
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

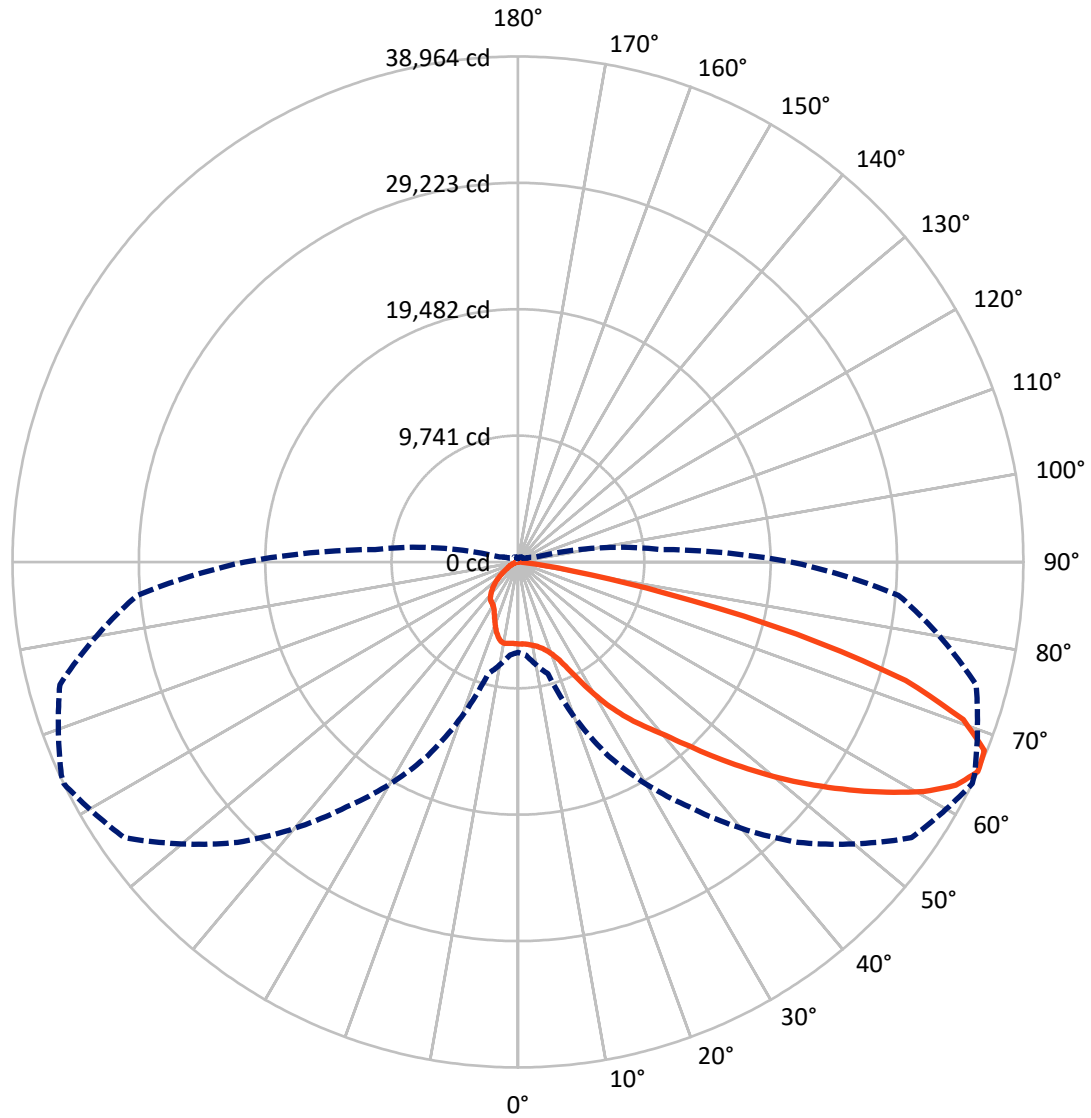
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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	7260.1	0.0	7260.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	47028.9	0.0	47028.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	54289.0	0.0	54289.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.6	1.1
10°-20°	1580.1	2.9
20°-30°	2994.1	5.5
30°-40°	6058.7	11.2
40°-50°	10321.0	19.0
50°-60°	14035.8	25.9
60°-70°	13180.3	24.3
70°-80°	5280.6	9.7
80°-90°	255.8	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°	54289.0	100.0
0°-180°	54289.0	100.0

Coefficient of Utilization



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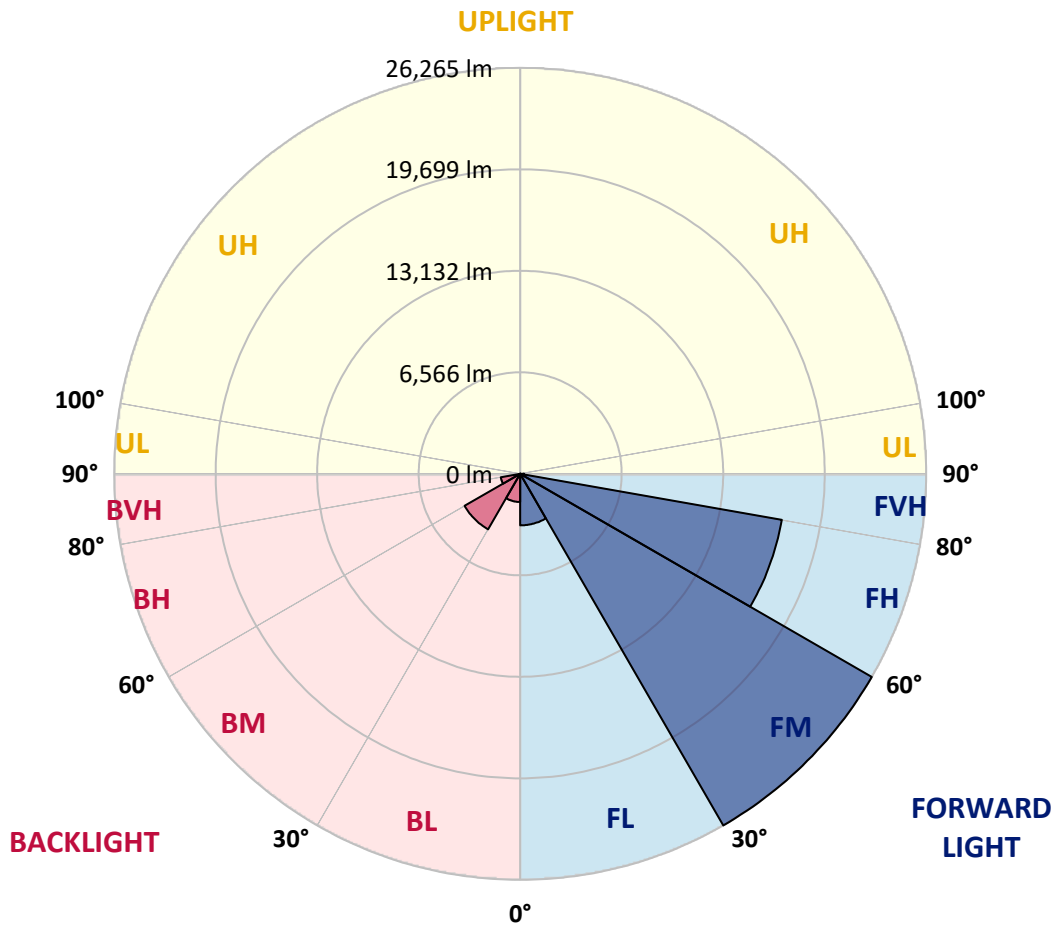
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.0	6.1			
FM (30°-60°)	26265.0	48.4			
FH (60°-80°)	17186.7	31.7			G5
FVH (80°-90°)	243.3	0.4			G3/500
BL (0°-30°)	1822.8	3.4	B3/2500		
BM (30°-60°)	4150.5	7.6	B3/5000		
BH (60°-80°)	1274.3	2.3	B3/2500		G3/2500
BVH (80°-90°)	12.5	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°	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4
2.5°	6292.5	6336.2	6325.3	6314.4	6310.7	6318.0	6321.7	6318.0	6318.0	6318.0
5°	6172.4	6208.8	6208.8	6234.3	6270.7	6314.4	6347.1	6354.4	6361.7	6372.6
7.5°	5943.2	5972.3	5994.1	6077.8	6168.8	6285.3	6383.5	6434.5	6441.8	6481.8
10°	5786.7	5823.1	5859.4	5946.8	6077.8	6252.5	6419.9	6543.7	6561.9	6656.5
12.5°	5779.4	5815.8	5863.1	5957.7	6110.6	6296.2	6500.0	6678.3	6711.1	6849.4
15°	5855.8	5899.5	5943.2	6059.6	6223.4	6449.0	6667.4	6889.4	6922.2	7118.7
17.5°	6012.3	6070.5	6103.3	6219.7	6394.4	6645.6	6933.1	7187.8	7216.9	7446.2
20°	6321.7	6390.8	6401.7	6496.3	6667.4	6936.7	7278.8	7595.4	7631.8	7893.9
22.5°	6962.2	7060.5	6973.1	7020.4	7173.3	7442.6	7813.8	8214.1	8265.1	8563.5
25°	8090.4	8228.7	8003.1	7923.0	7988.5	8268.7	8734.6	9240.5	9298.7	9538.9
27.5°	10306.8	10128.5	9786.4	9451.5	9255.0	9415.2	9939.2	10565.2	10638.0	10870.9
30°	12741.6	12585.1	12122.9	11380.4	10914.6	10889.1	11373.2	12071.9	12155.6	12377.6
32.5°	15180.0	15030.8	14528.5	13615.0	12807.1	12406.7	12741.6	13516.8	13560.4	13702.4
35°	17578.3	17425.5	16923.3	15987.9	14994.4	14084.5	14019.0	14892.5	14907.0	15056.2
37.5°	19991.3	19863.9	19328.9	18411.8	17432.8	16177.2	15569.4	16195.4	16213.6	16359.1
40°	21712.7	21767.3	21399.7	20690.0	19849.3	18477.3	17309.0	17582.0	17472.8	17716.6
42.5°	23190.3	23299.5	22979.2	22622.6	22134.9	20926.6	19463.6	19416.2	19241.6	19372.6
45°	24467.7	24558.7	24271.2	24187.5	24176.6	23328.6	21818.3	21534.4	21290.5	21265.1
47.5°	24937.2	25111.9	25235.7	25515.9	26061.8	25705.1	24253.0	23812.7	23539.7	23339.5
50°	25115.6	25301.2	25723.3	26538.6	27830.6	27983.4	26676.9	26181.9	25847.1	25483.1
52.5°	24875.4	25206.5	25774.3	27146.4	29020.6	29810.4	29002.4	28569.4	28187.2	27594.0
55°	23459.6	23790.8	24951.8	27139.1	29613.9	31091.5	31200.7	31007.8	30578.3	29643.0
57.5°	20475.3	20966.6	22804.5	26214.7	29603.0	32194.2	33355.2	33493.5	33013.1	31673.8
60°	16340.9	17007.0	19248.8	24165.7	28689.5	32791.1	35244.0	35935.5	35426.0	33675.5
62.5°	11402.3	12173.8	14295.6	20955.7	26600.4	32361.6	36623.4	37900.8	37515.0	35466.0
65°	6954.9	7202.4	8912.9	16490.2	23048.4	30563.8	37049.2	38963.5	38836.1	36561.5
67.5°	4633.0	4840.4	5331.7	11307.6	17891.3	26971.7	36030.1	38777.9	38814.3	36383.2
70°	2791.4	2969.8	3290.0	6576.4	11595.2	21348.8	32874.8	36412.3	36623.4	33999.4
72.5°	1150.1	1270.2	1561.3	2980.7	6005.0	13549.5	26178.3	31262.5	31753.8	28587.6
75°	651.5	713.3	917.1	1495.8	2605.8	6314.4	15856.9	22193.1	22917.4	19703.8
77.5°	433.1	462.2	593.2	968.1	1466.7	2154.5	6776.6	11562.4	12945.4	10761.7
80°	291.2	316.6	407.6	647.8	953.5	924.4	2158.2	4283.6	5269.9	3697.6
82.5°	196.5	200.2	291.2	425.8	604.1	447.6	636.9	1332.0	1674.1	1070.0
85°	112.8	109.2	214.7	247.5	269.3	185.6	192.9	400.3	524.1	451.3
87.5°	14.6	21.8	83.7	65.5	36.4	40.0	40.0	69.1	101.9	109.2
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°
6314.4	0°	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4	6314.4
6321.7	2.5°	6321.7	6318.0	6307.1	6296.2	6270.7	6256.1	6263.4	6256.1	6252.5	6256.1
6369.0	5°	6369.0	6358.0	6328.9	6292.5	6241.6	6179.7	6139.7	6081.5	6026.9	5994.1
6496.3	7.5°	6496.3	6485.4	6445.4	6343.5	6179.7	5921.3	5684.8	5477.3	5320.8	5229.8
6700.2	10°	6700.2	6682.0	6620.1	6394.4	5965.0	5400.9	4931.4	4542.0	4287.2	4167.1
6940.4	12.5°	6940.4	6918.5	6809.3	6347.1	5557.4	4676.6	4028.8	3595.7	3359.2	3253.6
7216.9	15°	7224.2	7195.1	6980.4	6121.5	4964.2	3876.0	3282.7	2958.8	2806.0	2711.4
7570.0	17.5°	7577.2	7526.3	7107.8	5783.0	4320.0	3264.5	2824.2	2580.3	2445.7	2354.7
8032.2	20°	8035.8	7952.1	7209.7	5379.0	3726.8	2878.8	2514.8	2311.0	2209.1	2129.1
8687.3	22.5°	8676.4	8556.3	7333.4	4942.3	3308.2	2613.1	2285.5	2136.3	2052.6	1961.6
9600.8	25°	9469.7	9327.8	7486.3	4538.3	3020.7	2383.8	2118.1	1994.4	1896.1	1790.6
10798.1	27.5°	10579.8	10325.0	7668.2	4207.2	2773.2	2187.3	1965.3	1827.0	1714.2	1626.8
12155.6	30°	11817.2	11398.6	7828.4	4007.0	2547.6	2005.3	1765.1	1626.8	1521.3	1459.4
13374.8	32.5°	12989.1	12421.3	7933.9	3919.6	2343.8	1797.9	1546.7	1397.5	1317.5	1299.3
14568.6	35°	14095.4	13345.7	7923.0	3835.9	2161.8	1590.4	1332.0	1179.2	1117.3	1128.2
15853.3	37.5°	15369.2	14332.0	7846.6	3704.9	2012.6	1401.2	1146.4	1011.8	957.2	960.8
17414.6	40°	16850.5	15471.1	7799.3	3457.4	1848.8	1226.5	993.6	884.4	844.3	829.8
19059.6	42.5°	18430.0	16573.9	7806.5	3177.2	1645.0	1070.0	888.0	797.0	760.6	749.7
20890.2	45°	20016.7	17625.7	7817.5	2886.1	1430.3	949.9	811.6	735.2	713.3	698.8
22746.3	47.5°	21508.9	18521.0	7613.6	2573.1	1219.2	858.9	749.7	698.8	680.6	662.4
24609.7	50°	22899.2	19117.8	7122.3	2209.1	1051.8	786.1	702.4	666.0	647.8	629.6
26298.4	52.5°	23980.1	19212.4	6310.7	1834.3	935.3	731.5	673.3	640.5	618.7	600.5
27663.1	55°	24460.5	18619.2	5157.0	1484.9	844.3	684.2	644.2	611.4	585.9	567.7
28736.8	57.5°	24336.7	17370.9	4021.5	1193.7	757.0	636.9	607.8	585.9	556.8	527.7
29606.6	60°	23728.9	15700.4	3031.6	993.6	676.9	585.9	567.7	549.6	509.5	465.8
29941.4	62.5°	22677.2	13600.5	2161.8	822.5	589.6	527.7	520.4	505.9	447.6	367.6
29446.5	65°	21068.5	11049.2	1455.8	684.2	505.9	462.2	465.8	440.4	363.9	273.0
27634.0	67.5°	18717.5	8079.5	931.7	560.5	422.2	385.8	389.4	374.9	309.3	232.9
24198.4	70°	15722.2	5349.9	607.8	425.8	338.5	298.4	320.3	323.9	262.0	189.2
18571.9	72.5°	11526.0	3159.0	425.8	316.6	247.5	207.4	262.0	269.3	211.1	141.9
11173.0	75°	6569.1	1499.4	320.3	229.3	152.9	145.6	203.8	203.8	145.6	94.6
4836.8	77.5°	2758.7	626.0	225.6	149.2	87.3	83.7	138.3	127.4	72.8	43.7
1179.2	80°	797.0	280.2	120.1	72.8	36.4	32.8	54.6	40.0	18.2	7.3
447.6	82.5°	313.0	123.7	47.3	29.1	14.6	14.6	7.3	0.0	0.0	0.0
254.8	85°	185.6	51.0	21.8	10.9	3.6	0.0	0.0	0.0	0.0	0.0
54.6	87.5°	47.3	10.9	7.3	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>
6314.4
6270.7
6001.4
5233.5
4156.2
3242.7
2715.0
2347.4
2114.5
1947.1
1779.7
1608.6
1448.5
1310.2
1128.2
975.4
826.1
746.1
698.8
662.4
629.6
596.9
564.1
524.1
458.6
360.3
265.7
222.0
182.0
134.7
87.3
43.7
7.3
0.0
0.0
0.0
0.0

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