

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: P953289

Luminaire Tested: **GALN-SB6D-850-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953289
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-SB6D-850-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 5000K, 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: 49141 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

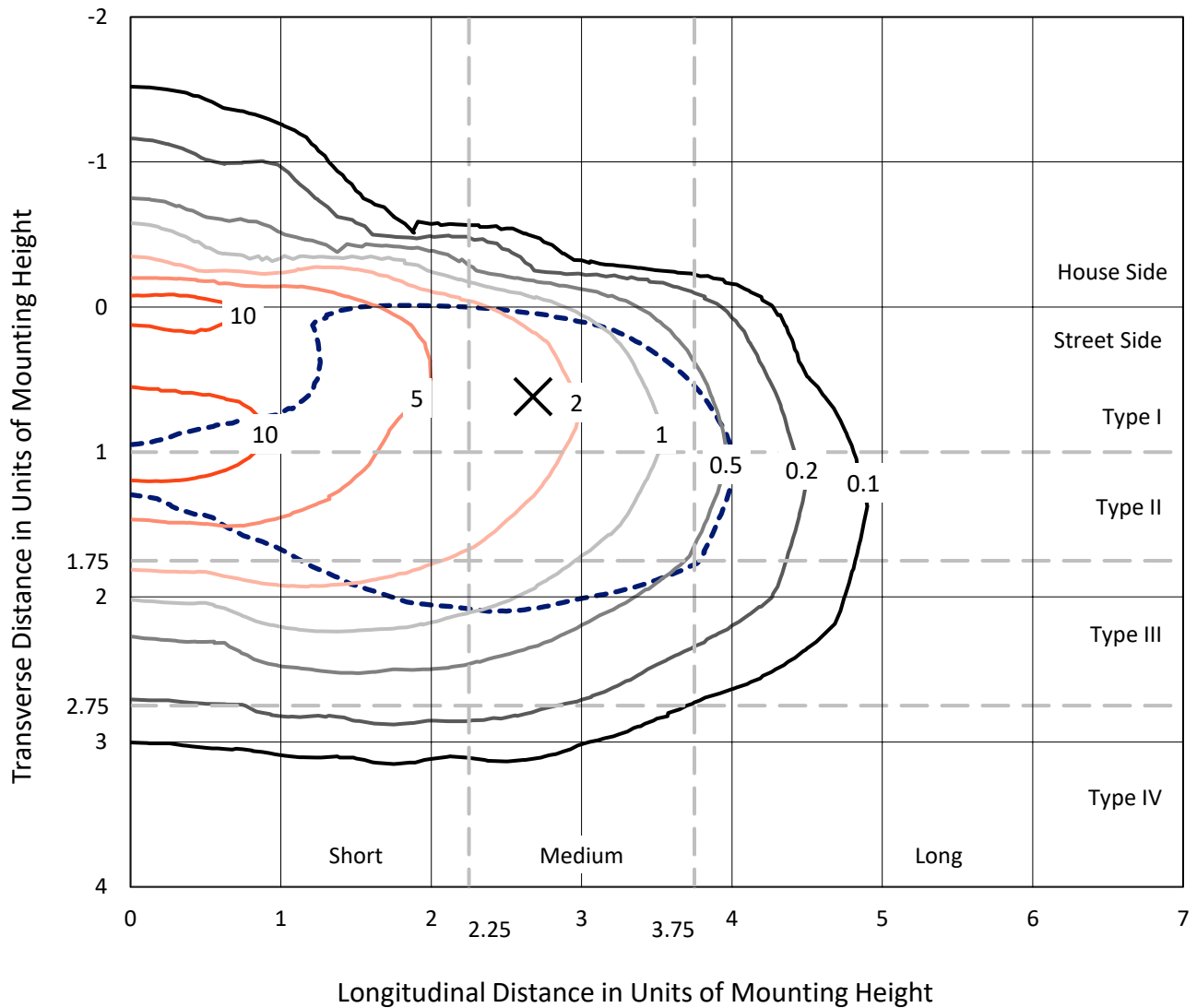
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

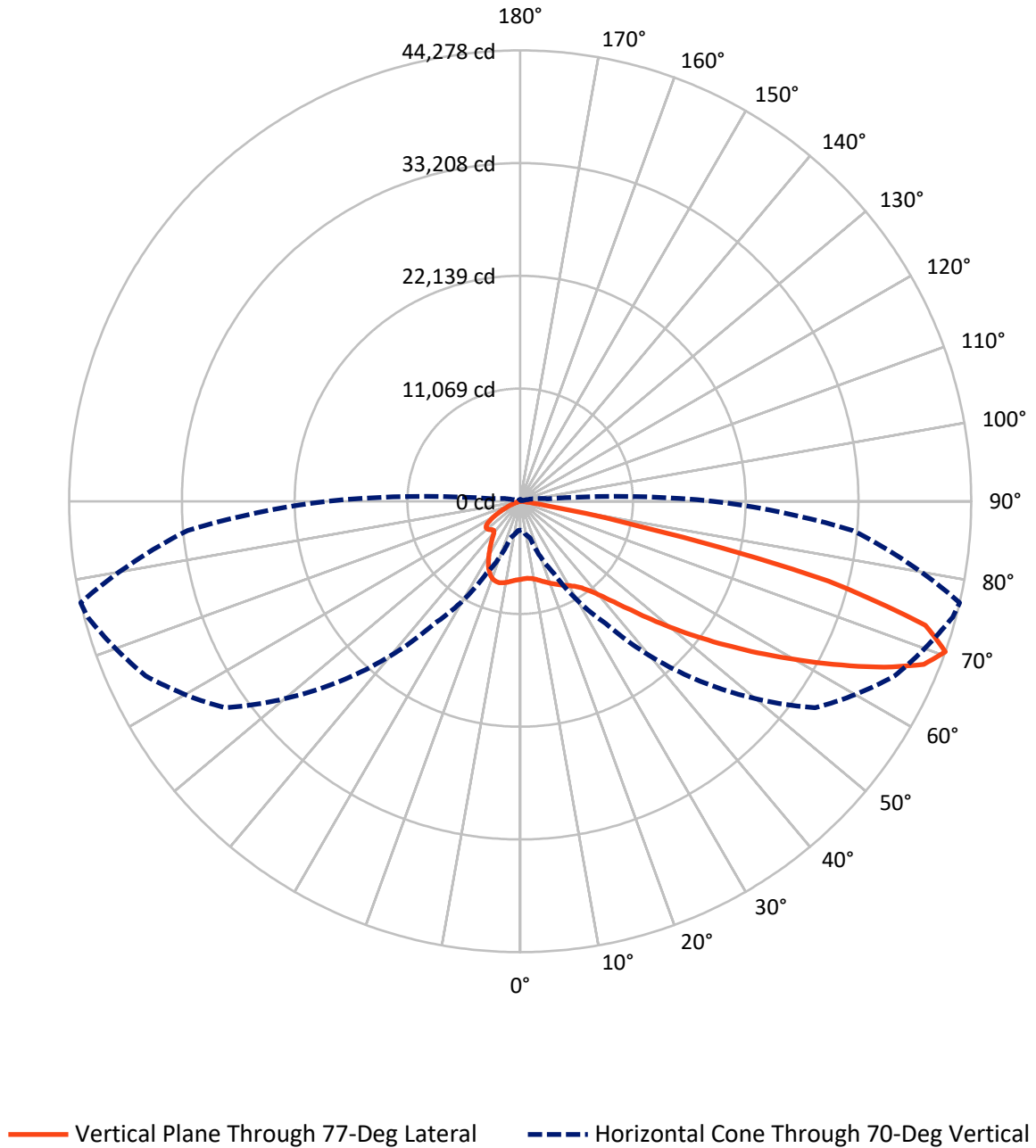
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5180.2	0.0	5180.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	43960.8	0.0	43960.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	49141.0	0.0	49141.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.6	1.3
10°-20°	1568.2	3.2
20°-30°	2425.6	4.9
30°-40°	4401.4	9.0
40°-50°	8308.1	16.9
50°-60°	12004.5	24.4
60°-70°	12778.5	26.0
70°-80°	6771.7	13.8
80°-90°	222.3	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°	49141.0	100.0
0°-180°	49141.0	100.0

Coefficient of Utilization



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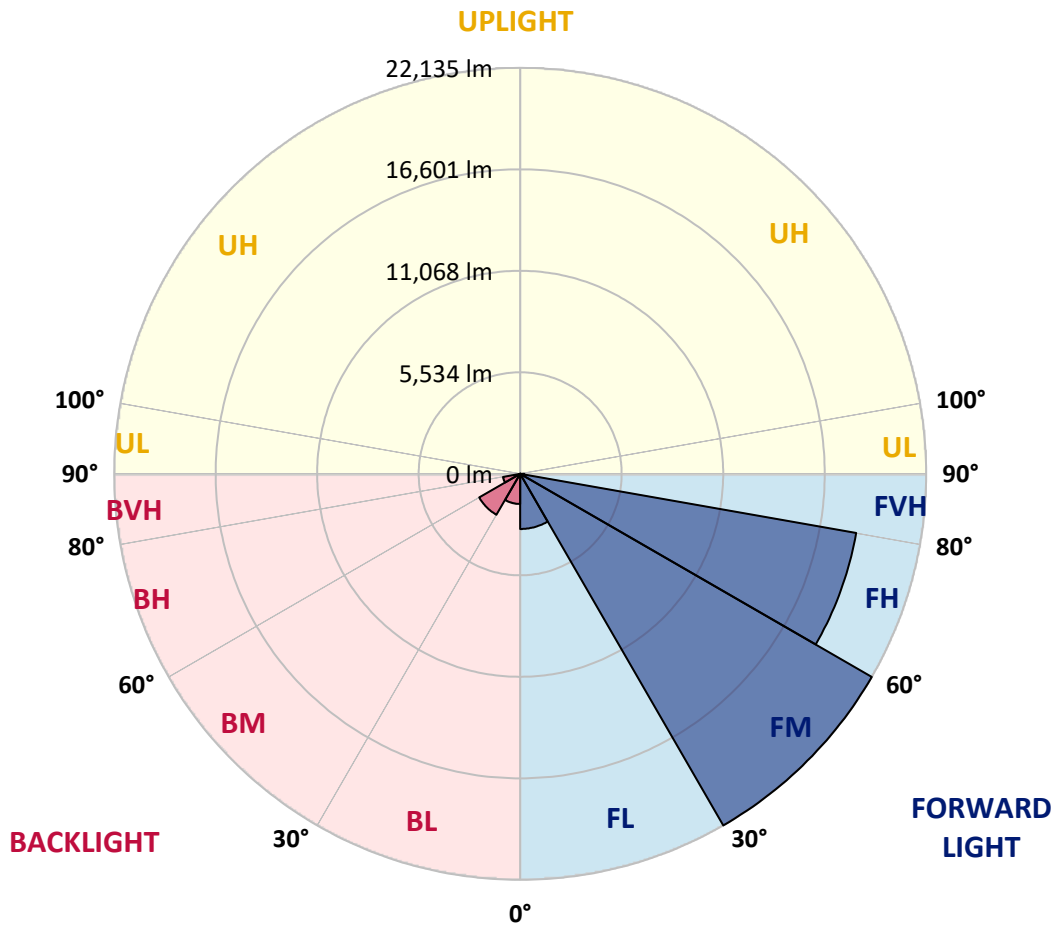
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3008.6	6.1			
FM (30°-60°)	22135.3	45.0			
FH (60°-80°)	18600.6	37.9			G5
FVH (80°-90°)	216.4	0.4			G2/225
BL (0°-30°)	1645.8	3.3	B3/2500		
BM (30°-60°)	2578.7	5.2	B3/5000		
BH (60°-80°)	949.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.0	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°	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1
2.5°	7196.5	7261.7	7252.4	7295.8	7311.3	7373.4	7435.5	7519.3	7612.4	7609.2
5°	6790.0	6855.2	6870.7	6929.6	7004.1	7100.3	7227.5	7395.1	7568.9	7596.8
7.5°	6309.0	6377.2	6417.6	6535.5	6672.1	6870.7	7078.6	7323.7	7612.4	7652.7
10°	5828.0	5890.0	5942.8	6110.4	6327.6	6622.4	6960.7	7314.4	7702.3	7761.3
12.5°	5530.0	5589.0	5648.0	5793.8	6063.8	6423.8	6883.1	7357.9	7851.3	7935.1
15°	5424.5	5477.3	5523.8	5654.2	5905.5	6315.2	6867.6	7447.9	8040.6	8152.3
17.5°	5440.1	5468.0	5499.0	5598.3	5843.5	6265.5	6895.5	7603.0	8264.0	8363.3
20°	5530.0	5545.6	5548.7	5616.9	5834.2	6259.3	6951.4	7752.0	8475.1	8608.5
22.5°	5644.9	5651.1	5644.9	5691.4	5893.1	6305.9	7025.8	7932.0	8710.9	8835.0
25°	6181.7	6063.8	5914.9	5824.9	5992.4	6395.9	7137.6	8174.0	8968.5	9089.5
27.5°	7848.2	7509.9	6976.2	6377.2	6197.3	6526.2	7292.7	8419.2	9229.2	9337.8
30°	10554.3	10110.5	9204.3	7854.4	6855.2	6799.3	7494.4	8664.4	9505.4	9623.3
32.5°	13266.5	13157.9	12112.1	10243.9	8335.4	7407.5	7829.6	8996.4	9871.5	9964.6
35°	16009.8	15789.5	14933.0	13086.5	10616.3	8645.7	8388.2	9430.9	10352.6	10458.1
37.5°	18110.8	17977.3	17446.7	15926.0	13322.4	10557.4	9344.0	10104.3	11050.8	11168.7
40°	19966.5	19904.5	19724.5	18722.1	16348.1	13058.6	10830.5	11147.0	12019.0	12158.7
42.5°	21425.1	21570.9	21673.3	21394.0	19466.9	15913.6	12829.0	12611.7	13368.9	13511.7
45°	22917.7	22967.4	23380.1	23783.6	22564.0	18899.0	15082.0	14327.9	15047.8	15224.7
47.5°	23876.7	24075.3	24801.4	25512.1	25167.6	21859.5	17502.5	16354.3	16993.6	17325.6
50°	23948.0	24323.5	25322.8	26561.0	27063.7	24677.3	20134.1	18663.1	19342.8	19708.9
52.5°	22759.5	23342.9	24891.4	26703.7	28087.8	27063.7	22855.7	20972.0	21844.0	22321.9
55°	17449.8	18213.2	23268.4	25927.9	28128.2	28872.9	25505.9	23377.0	24630.8	25170.7
57.5°	15203.0	15587.8	18293.9	24581.1	27380.3	29602.2	27901.6	25667.3	27662.7	28333.0
60°	12649.0	13154.8	15342.6	22377.8	26365.5	29673.6	30018.1	28621.6	30949.0	31703.1
62.5°	8596.1	9145.4	11320.8	18591.8	24978.3	29639.5	31752.8	31662.8	34601.6	35411.6
65°	5325.2	5669.7	7103.4	15181.3	23038.8	29676.7	33568.2	35355.7	38455.9	39278.3
67.5°	4208.1	4366.3	5114.2	11655.9	19696.5	28838.8	35380.5	38828.3	42083.6	42735.3
70°	2827.1	2923.3	3720.8	7814.1	14653.7	24972.1	35346.4	40572.3	43951.8	44277.6
72.5°	1489.6	1564.1	2175.4	3618.4	8850.6	17750.8	29794.6	38486.9	42092.9	41602.6
75°	744.8	868.9	1464.7	1837.1	3779.8	9899.5	18501.8	30343.9	33130.6	31231.4
77.5°	564.8	682.7	1210.3	1210.3	1315.8	3332.9	7835.8	16549.8	15265.0	12711.0
80°	360.0	465.5	1058.2	915.5	549.3	847.2	2042.0	4636.3	3242.9	2467.1
82.5°	211.0	304.1	881.3	605.1	307.2	313.4	577.2	986.8	841.0	654.8
85°	83.8	198.6	605.1	239.0	121.0	77.6	173.8	211.0	173.8	130.3
87.5°	0.0	46.5	105.5	0.0	9.3	6.2	12.4	15.5	15.5	12.4
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°
7665.1	0°	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1	7665.1
7671.3	2.5°	7699.2	7705.5	7724.1	7727.2	7683.7	7627.9	7606.1	7596.8	7559.6	7556.5
7721.0	5°	7792.3	7820.3	7792.3	7711.7	7519.3	7249.3	7044.5	6876.9	6724.8	6678.3
7891.6	7.5°	7978.5	8006.5	7922.7	7606.1	7122.0	6585.2	6101.1	5759.7	5452.5	5337.6
8099.6	10°	8245.4	8282.7	8018.9	7379.6	6523.1	5660.4	4841.1	4263.9	3813.9	3630.8
8382.0	12.5°	8580.6	8596.1	8071.6	7035.1	5744.2	4512.2	3351.5	2734.0	2333.7	2184.7
8723.3	15°	8949.9	8928.1	8077.8	6566.5	4682.9	3190.2	2187.8	1796.8	1635.4	1585.8
9064.7	17.5°	9337.8	9247.8	7953.7	5890.0	3519.1	2181.6	1623.0	1529.9	1502.0	1489.6
9402.9	20°	9719.5	9517.8	7727.2	5005.6	2526.1	1629.2	1474.1	1446.1	1430.6	1424.4
9744.3	22.5°	10067.0	9722.6	7339.3	3978.4	1834.0	1439.9	1393.4	1368.5	1340.6	1328.2
10076.4	25°	10405.3	9840.5	6793.1	3019.5	1467.9	1346.8	1309.6	1263.0	1225.8	1210.3
10433.2	27.5°	10734.3	9915.0	6110.4	2234.4	1309.6	1259.9	1191.7	1126.5	1098.6	1092.4
10814.9	30°	11084.9	9939.8	5334.5	1666.5	1213.4	1151.3	1052.0	977.5	962.0	965.1
11330.1	32.5°	11513.2	9977.1	4552.5	1365.4	1132.7	1021.0	903.1	825.5	813.1	825.5
12081.1	35°	12025.2	10051.5	3798.4	1256.8	1061.3	887.5	760.3	695.1	682.7	692.0
13043.1	37.5°	12720.4	10172.6	3094.0	1235.1	1002.4	775.8	639.3	586.5	586.5	589.6
14222.3	40°	13645.1	10495.3	2464.0	1219.6	971.3	692.0	540.0	518.2	527.6	533.8
15724.3	42.5°	14771.6	11181.1	2038.9	1201.0	937.2	654.8	490.3	481.0	496.5	502.7
17524.2	45°	16034.7	12050.0	1889.9	1169.9	906.2	679.6	468.6	456.2	474.8	477.9
19541.4	47.5°	17341.1	12900.3	1871.3	1135.8	875.1	716.9	462.4	434.5	456.2	459.3
21695.0	50°	18663.1	13455.8	1889.9	1083.0	825.5	716.9	465.5	412.7	431.4	440.7
23929.4	52.5°	19994.5	13710.3	1877.5	968.2	738.6	673.4	465.5	394.1	412.7	418.9
26343.8	55°	21285.4	13660.7	1688.2	797.5	626.9	595.8	453.1	378.6	391.0	394.1
28624.7	57.5°	22306.4	12968.6	1337.5	620.7	508.9	496.5	412.7	360.0	369.3	366.2
30716.3	60°	22840.2	11448.0	955.8	477.9	400.3	391.0	363.1	335.2	341.4	325.8
32488.3	62.5°	22846.4	9437.1	639.3	378.6	319.6	310.3	310.3	301.0	294.8	263.8
33859.9	65°	22359.2	7205.8	425.1	301.0	257.6	242.1	260.7	257.6	235.8	192.4
34278.9	67.5°	21254.4	4723.2	322.7	235.8	198.6	189.3	207.9	217.2	201.7	161.4
32752.0	70°	18982.8	2749.5	266.9	183.1	149.0	139.6	167.6	186.2	167.6	130.3
27994.7	72.5°	15767.8	1483.4	217.2	136.5	102.4	93.1	133.4	152.1	133.4	96.2
17961.8	75°	10231.5	794.4	167.6	90.0	52.8	59.0	99.3	111.7	93.1	62.1
5272.5	77.5°	3435.3	350.7	105.5	43.4	24.8	24.8	59.0	68.3	43.4	21.7
958.9	80°	766.5	145.9	43.4	18.6	9.3	9.3	12.4	12.4	6.2	0.0
294.8	82.5°	251.4	59.0	18.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0
74.5	85°	96.2	21.7	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.8	87.5°	37.2	3.1	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>
7665.1
7562.7
6650.3
5291.1
3553.3
2138.2
1585.8
1486.5
1418.2
1325.1
1204.1
1086.1
965.1
822.4
688.9
586.5
533.8
502.7
481.0
462.4
443.8
418.9
394.1
366.2
322.7
254.5
186.2
158.3
124.1
93.1
55.9
18.6
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