

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: P953266

Luminaire Tested: **GALN-SB6D-840-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-840-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45109 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

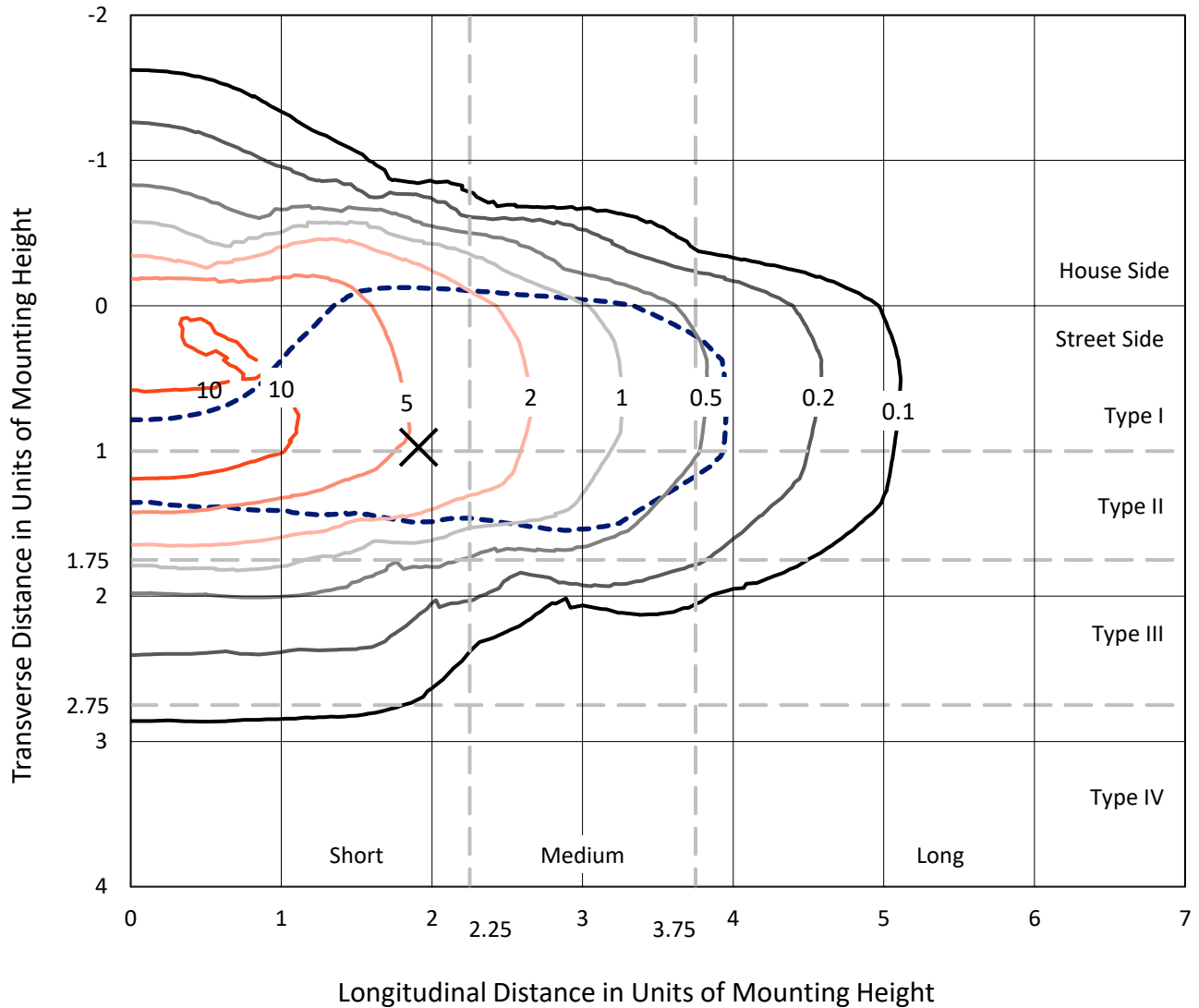
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

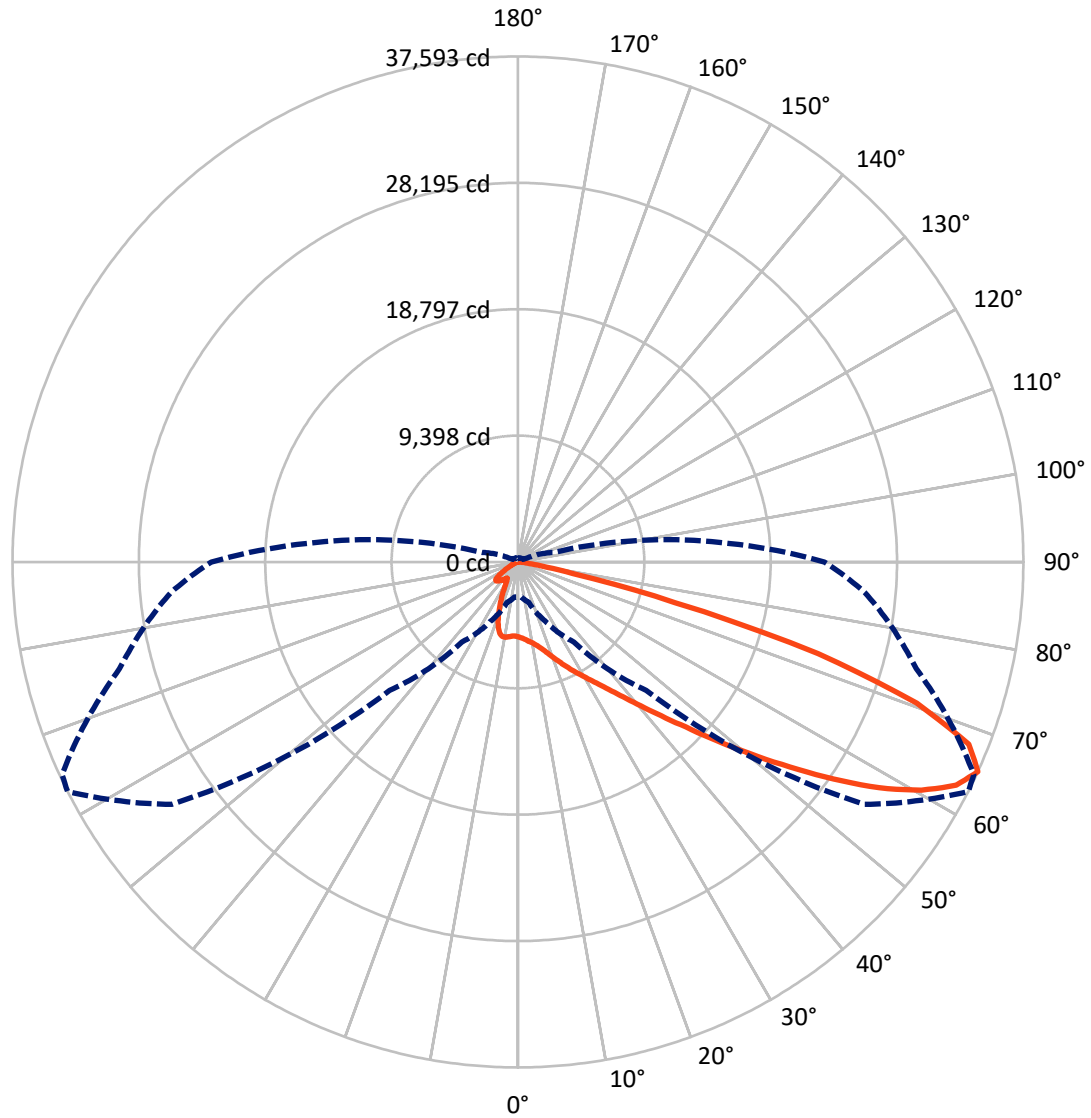
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6630.7	0.0	6630.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	38478.3	0.0	38478.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	45109.0	0.0	45109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	1.2
10°-20°	1455.4	3.2
20°-30°	2534.3	5.6
30°-40°	4567.7	10.1
40°-50°	9059.3	20.1
50°-60°	12340.2	27.4
60°-70°	9849.9	21.8
70°-80°	4457.3	9.9
80°-90°	320.4	0.7
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°	45109.0	100.0
0°-180°	45109.0	100.0

Coefficient of Utilization

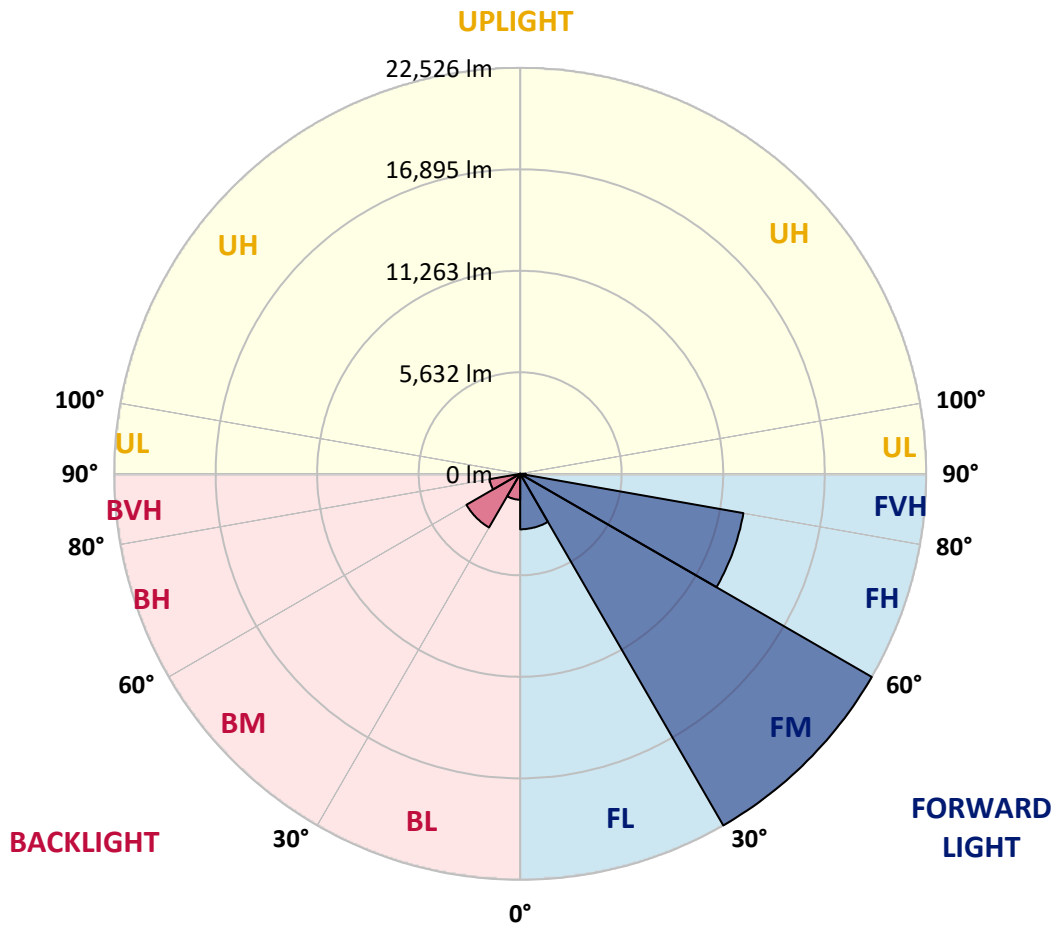


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3079.2	6.8			
FM (30°-60°)	22526.3	49.9			
FH (60°-80°)	12576.2	27.9			G5
FVH (80°-90°)	296.6	0.7			G3/500
BL (0°-30°)	1435.0	3.2	B3/2500		
BM (30°-60°)	3440.9	7.6	B3/5000		
BH (60°-80°)	1731.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	23.8	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3
2.5°	5697.6	5682.1	5703.8	5694.5	5688.3	5675.9	5669.7	5663.5	5651.1	5641.8
5°	5713.2	5703.8	5725.6	5744.2	5762.8	5781.4	5790.7	5803.2	5790.7	5765.9
7.5°	5582.8	5576.6	5623.2	5679.0	5762.8	5834.2	5911.8	5955.2	5958.3	5949.0
10°	5573.5	5558.0	5604.5	5672.8	5781.4	5908.7	6045.2	6138.3	6150.7	6191.1
12.5°	5719.4	5703.8	5769.0	5843.5	5955.2	6088.7	6256.2	6386.6	6405.2	6461.1
15°	5964.5	5942.8	6017.3	6113.5	6256.2	6408.3	6585.2	6703.1	6718.6	6786.9
17.5°	6250.0	6228.3	6315.2	6417.6	6572.8	6780.7	6985.5	7115.8	7134.5	7177.9
20°	6616.2	6588.3	6656.6	6749.7	6914.1	7162.4	7407.6	7593.8	7590.6	7590.6
22.5°	7041.4	6997.9	7056.9	7131.4	7286.5	7587.5	7913.4	8133.7	8133.7	8046.8
25°	7497.5	7454.1	7519.3	7587.5	7724.1	8065.5	8447.2	8720.2	8732.7	8583.7
27.5°	8068.6	8012.7	8062.3	8143.0	8223.7	8571.3	9024.4	9340.9	9347.1	9117.5
30°	9167.1	9008.9	8853.7	8766.8	8804.0	9148.5	9632.6	9983.3	10014.3	9697.8
32.5°	11178.1	11147.0	10600.8	9887.1	9514.7	9769.2	10312.2	10734.3	10752.9	10346.4
35°	14303.1	14265.8	13387.6	12028.4	10815.0	10600.8	11137.7	11637.3	11624.9	11165.6
37.5°	18033.2	17999.1	16841.6	15023.0	13058.6	11857.7	12202.1	12726.6	12804.2	12202.1
40°	21220.3	21093.1	20360.7	18607.3	16037.8	13943.1	13716.5	14064.1	14144.8	13431.0
42.5°	23634.7	23526.0	23153.6	22058.2	19643.8	17027.8	15500.9	15634.4	15724.4	14867.9
45°	24885.3	24860.5	25009.4	24907.0	23318.1	20813.8	18051.8	17496.4	17530.5	16459.9
47.5°	25062.2	25049.8	25729.4	26691.4	26477.3	25083.9	21325.8	19817.6	19696.6	18256.7
50°	24019.5	23994.6	25298.0	27101.0	28587.5	28671.3	25043.6	22433.7	22166.8	20115.5
52.5°	20689.6	20683.4	22824.7	25825.6	29329.2	31811.8	28717.8	25307.3	24860.5	22083.0
55°	15919.9	16034.7	18489.4	22036.5	27976.2	33323.1	32016.6	28497.5	27811.7	24062.9
57.5°	11277.4	11444.9	13871.7	17030.9	23780.5	32429.4	34247.9	31693.9	30955.3	26036.6
60°	6057.6	6206.6	8636.5	12407.0	17691.9	29096.5	35424.1	34468.2	33770.0	27911.0
62.5°	3609.1	3658.8	4664.2	8009.6	11966.3	22228.9	34924.4	36581.6	36007.5	29484.4
65°	2591.2	2600.6	3106.4	4890.8	7264.8	13505.5	31420.8	37593.3	37416.4	30669.8
67.5°	2181.6	2175.4	2386.4	3249.1	4949.7	6765.2	24081.5	36162.6	36913.6	31420.8
70°	1871.3	1880.6	2128.9	2380.2	3720.8	3829.5	11972.5	31486.0	33087.3	31619.4
72.5°	1393.4	1424.4	1654.1	2169.2	2808.5	2634.7	4133.6	23346.1	26241.4	29791.6
75°	983.7	999.3	1163.7	1824.7	2094.7	1917.8	2110.2	12068.7	15780.2	22840.2
77.5°	757.2	785.1	881.3	1275.5	2063.7	1346.8	1291.0	4177.0	6417.6	13797.2
80°	409.6	459.3	636.2	921.7	1449.2	952.7	639.3	1663.4	2175.4	6451.7
82.5°	211.0	235.9	443.8	664.1	825.5	831.7	316.5	692.0	896.9	1992.3
85°	83.8	102.4	297.9	366.2	425.2	409.6	142.8	279.3	322.7	552.4
87.5°	18.6	31.0	108.6	83.8	80.7	86.9	34.1	65.2	62.1	65.2
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°
5567.3	0°	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3	5567.3
5604.5	2.5°	5601.4	5589.0	5554.9	5517.7	5474.2	5449.4	5433.9	5430.8	5409.0	5393.5
5728.7	5°	5694.5	5682.1	5617.0	5539.4	5455.6	5390.4	5328.3	5272.5	5191.8	5176.3
5908.7	7.5°	5880.7	5846.6	5741.1	5635.6	5477.3	5288.0	5058.4	4794.6	4558.7	4487.4
6147.6	10°	6110.4	6063.8	5930.4	5744.2	5393.5	4878.4	4322.9	3807.7	3398.1	3283.3
6430.0	12.5°	6371.1	6330.7	6153.8	5809.4	5042.8	4108.8	3258.5	2619.2	2222.0	2122.7
6731.0	15°	6681.4	6622.4	6377.3	5710.1	4416.0	3121.9	2237.5	1858.9	1716.1	1697.5
7075.5	17.5°	7010.3	6914.1	6575.9	5353.2	3571.9	2218.9	1728.5	1619.9	1557.9	1539.2
7423.1	20°	7311.4	7187.2	6693.8	4813.2	2668.8	1728.5	1548.5	1477.2	1421.3	1399.6
7770.6	22.5°	7612.4	7435.5	6693.8	4077.7	2001.6	1533.0	1421.3	1356.1	1291.0	1263.0
8143.0	25°	7925.8	7690.0	6575.9	3258.5	1610.6	1405.8	1300.3	1228.9	1173.0	1138.9
8496.8	27.5°	8229.9	7904.1	6305.9	2482.6	1433.7	1294.1	1188.6	1120.3	1067.5	1042.7
8881.6	30°	8518.5	8115.1	5927.3	1883.7	1318.9	1185.5	1086.2	1027.2	974.4	949.6
9381.2	32.5°	8909.5	8382.0	5523.9	1545.4	1219.6	1083.0	993.1	937.2	890.6	872.0
10029.8	35°	9452.6	8776.1	5176.3	1517.5	1135.8	999.3	909.3	856.5	810.0	794.4
10867.7	37.5°	10222.2	9412.3	4993.2	1703.7	1067.5	924.8	841.0	785.1	741.7	729.3
11932.2	40°	11171.8	10275.0	5092.5	1889.9	1021.0	859.6	778.9	723.1	685.8	670.3
13154.8	42.5°	12298.3	11339.4	5641.8	2032.7	989.9	803.8	720.0	657.9	633.1	626.9
14542.0	45°	13592.4	12509.4	6482.8	2184.7	940.3	751.0	661.0	614.5	595.8	592.7
16050.2	47.5°	15063.4	13794.1	7457.2	2374.0	890.6	701.3	614.5	583.4	567.9	561.7
17623.6	50°	16521.9	15088.2	8459.6	2479.5	850.3	654.8	577.2	552.4	540.0	536.9
19286.9	52.5°	18048.7	16419.5	9269.5	2380.2	816.2	617.6	546.2	527.6	515.1	512.0
20820.0	55°	19504.2	17496.4	9409.2	2020.2	747.9	580.3	512.0	502.7	487.2	487.2
22374.7	57.5°	20757.9	18036.3	8422.3	1483.4	679.6	524.5	477.9	468.6	456.2	453.1
23777.4	60°	21909.2	17881.2	6501.4	999.3	605.1	468.6	434.5	428.3	415.8	400.3
24997.0	62.5°	22557.8	17198.4	4447.0	651.7	530.7	409.6	384.8	381.7	353.8	322.7
25900.1	65°	22803.0	15795.7	2774.3	474.8	443.8	350.7	332.1	325.8	285.5	251.4
26412.1	67.5°	22588.9	13486.9	1399.6	375.5	350.7	291.7	273.1	273.1	245.2	214.1
26381.1	70°	21732.3	10110.5	589.6	301.0	270.0	223.4	223.4	235.9	207.9	173.8
25012.5	72.5°	19873.5	6802.4	313.4	229.6	201.7	158.3	183.1	192.4	164.5	130.3
20472.4	75°	15798.9	4149.1	217.2	170.7	127.2	111.7	139.6	145.9	111.7	86.9
14036.2	77.5°	10805.7	2383.3	145.9	108.6	80.7	65.2	96.2	90.0	59.0	40.3
5412.1	80°	4744.9	993.1	83.8	49.7	31.0	24.8	34.1	24.8	18.6	12.4
741.7	82.5°	555.5	232.7	31.0	18.6	12.4	6.2	3.1	0.0	0.0	0.0
226.5	85°	114.8	27.9	15.5	6.2	3.1	0.0	0.0	0.0	0.0	0.0
40.3	87.5°	21.7	6.2	3.1	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>
5567.3
5409.0
5170.1
4453.2
3239.8
2094.7
1678.9
1529.9
1387.2
1247.5
1126.5
1042.7
952.7
872.0
794.4
726.2
667.2
626.9
589.6
561.7
536.9
512.0
484.1
450.0
397.2
316.5
248.3
211.0
170.7
130.3
83.8
43.4
12.4
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