

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: P951794

Luminaire Tested: **GALN-SB5D-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

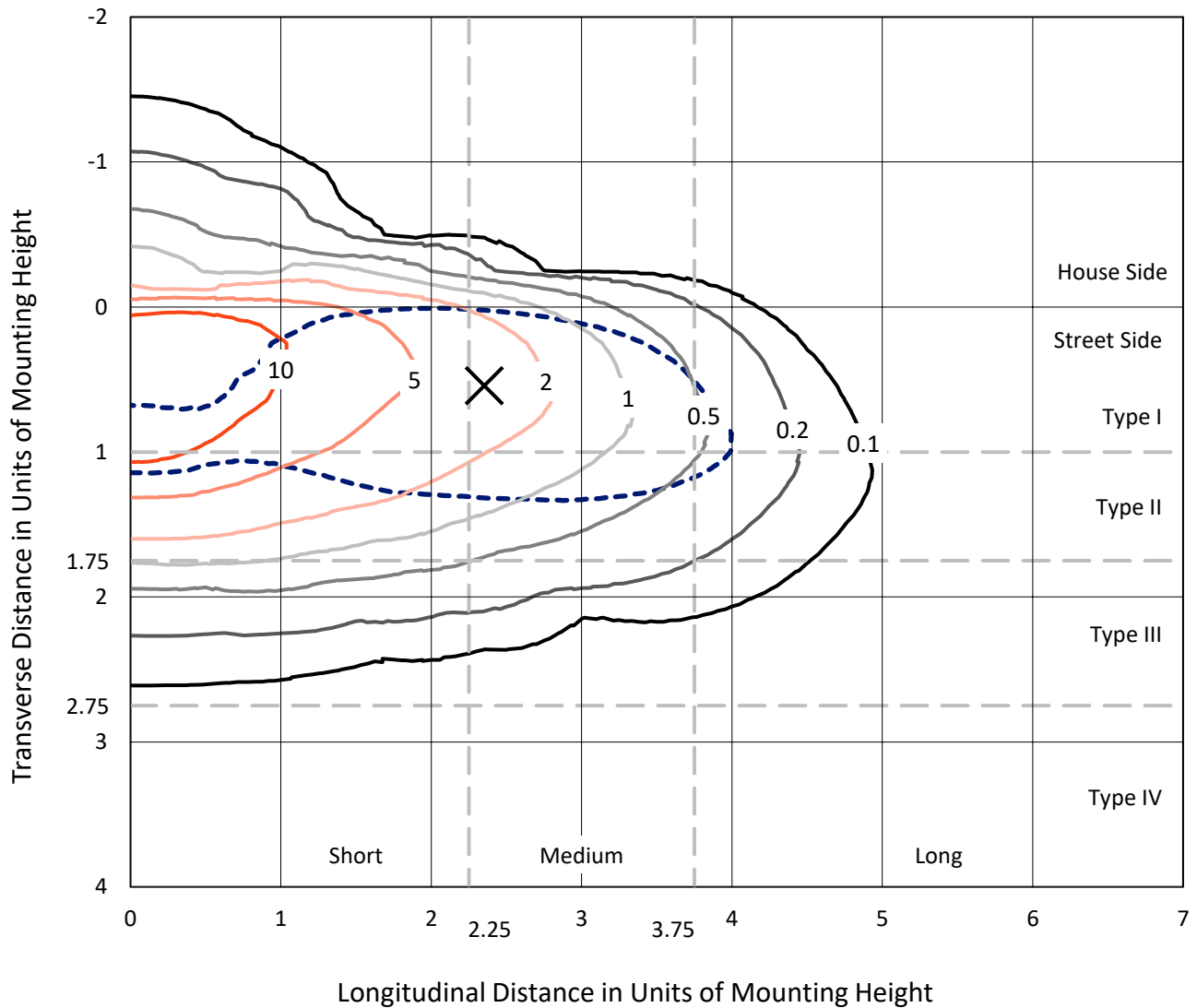
Lumens per Lamp: N/A  
Luminaire Lumens: 39107 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

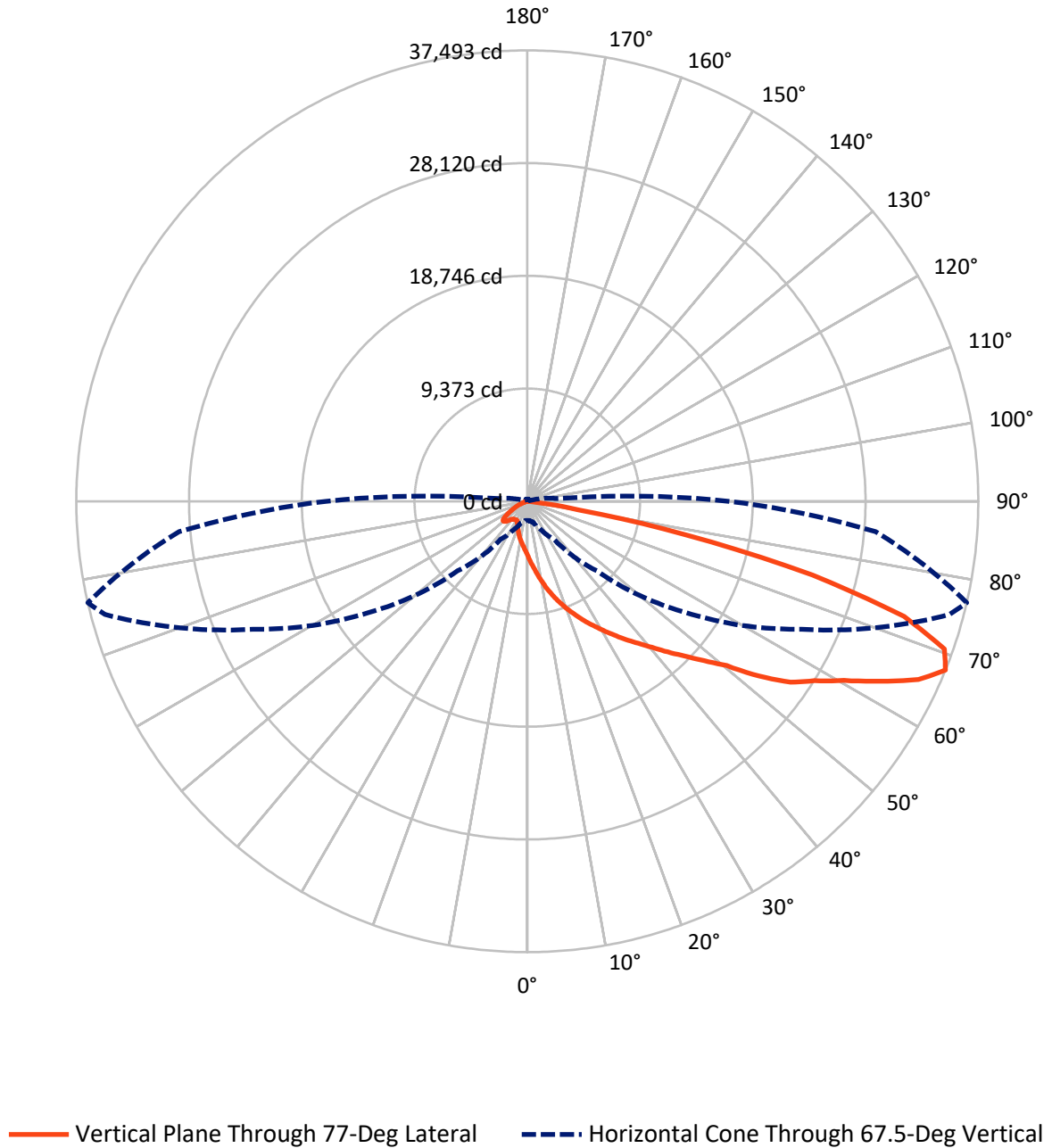
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2877.1	0.0	2877.1
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	36229.9	0.0	36229.9
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	39107.0	0.0	39107.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.3	1.2
10°-20°	1611.8	4.1
20°-30°	3110.4	8.0
30°-40°	5399.9	13.8
40°-50°	7840.3	20.0
50°-60°	9003.6	23.0
60°-70°	7816.8	20.0
70°-80°	3681.8	9.4
80°-90°	182.1	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°	39107.0	100.0
0°-180°	39107.0	100.0

**Coefficient of Utilization**



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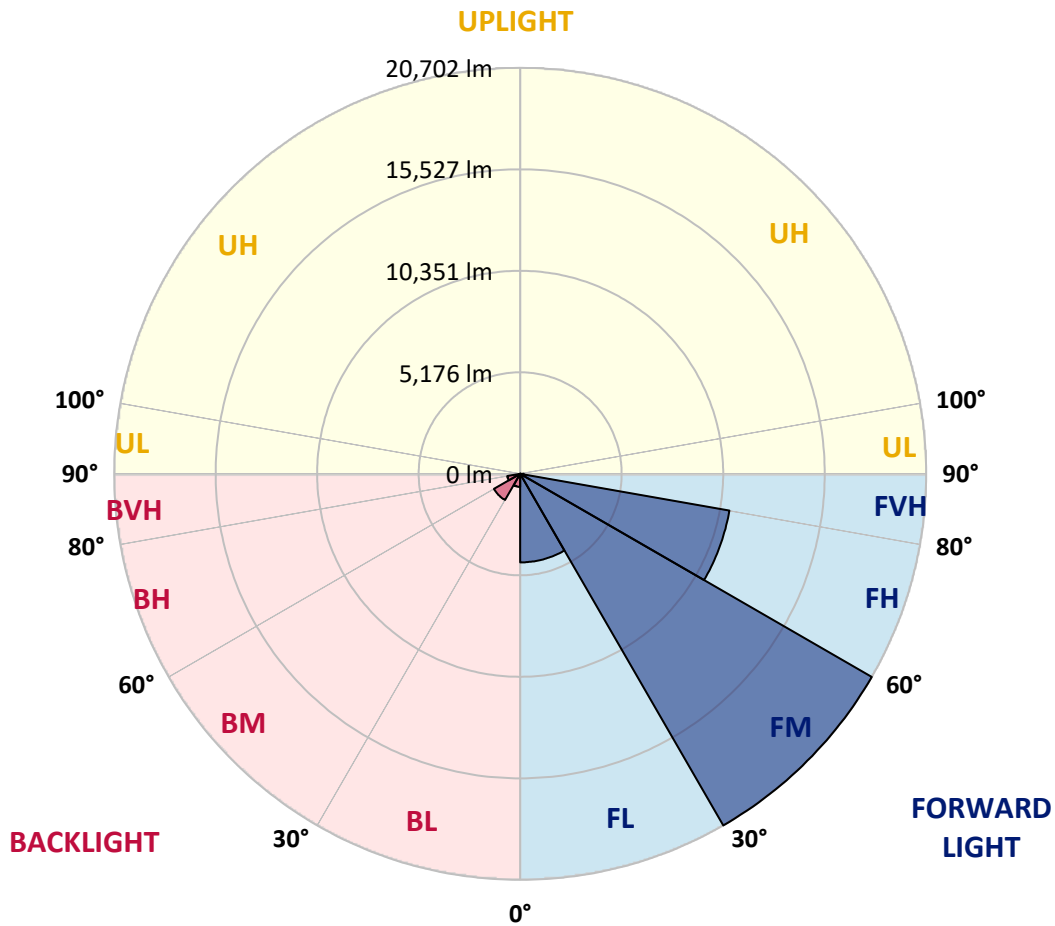
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4516.4	11.5			
FM (30°-60°)	20702.2	52.9			
FH (60°-80°)	10832.5	27.7			G4/12000
FVH (80°-90°)	178.7	0.5			G2/225
BL (0°-30°)	666.1	1.7	B2/1000		
BM (30°-60°)	1541.6	3.9	B2/2500		
BH (60°-80°)	666.1	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6
2.5°	6243.5	6282.4	6226.5	6119.7	5959.4	5855.0	5600.0	5359.6	5092.4	5007.4
5°	7610.7	7644.7	7581.6	7465.0	7251.3	7047.3	6712.2	6209.5	5687.4	5519.8
7.5°	8623.4	8642.8	8618.5	8511.7	8307.7	8077.0	7703.0	7108.0	6333.4	6148.8
10°	9351.9	9415.1	9407.8	9366.5	9230.5	9043.5	8645.2	7967.7	7057.0	6819.1
12.5°	9835.2	9905.6	9946.9	10039.2	10031.9	9912.9	9563.2	8846.8	7778.3	7499.0
15°	9976.0	10051.3	10209.2	10422.9	10612.3	10673.0	10427.7	9708.9	8572.4	8215.4
17.5°	9895.9	10012.5	10201.9	10539.4	10954.7	11229.1	11202.4	10541.9	9293.6	8885.7
20°	10073.2	10184.9	10333.0	10617.1	11100.4	11598.2	11797.4	11338.4	10010.0	9582.6
22.5°	11054.3	11034.8	11049.4	11095.5	11384.5	11877.5	12287.9	12062.1	10719.1	10282.0
25°	12608.5	12521.0	12372.9	12122.8	12049.9	12287.9	12715.3	12703.2	11467.1	10998.4
27.5°	14390.9	14376.4	14029.1	13426.8	13086.9	12994.6	13198.6	13327.3	12207.8	11707.5
30°	16098.1	16137.0	15668.3	14998.0	14373.9	14012.1	13827.5	13919.8	12960.6	12472.5
32.5°	17584.3	17625.6	17115.6	16331.3	15559.0	15121.9	14733.3	14505.1	13781.4	13249.6
35°	18839.8	18881.1	18295.9	17428.9	16605.7	16209.8	15770.3	15146.2	14607.1	14111.7
37.5°	19961.8	19949.6	19165.2	18291.0	17482.3	17169.1	16938.4	15935.4	15457.0	14978.6
40°	20624.7	20675.7	20005.5	19041.4	18257.0	18028.7	18014.2	16914.1	16438.1	15974.3
42.5°	20819.0	20908.9	20423.2	19631.5	18920.0	18672.3	19053.5	17972.9	17579.5	17127.8
45°	20469.3	20556.7	20335.8	19786.9	19371.7	19211.4	19947.2	19070.5	18798.5	18351.7
47.5°	19449.4	19558.7	19612.1	19495.5	19490.7	19653.4	20748.6	20226.5	20245.9	19789.4
50°	17475.0	17659.6	18150.2	18563.0	19201.7	20003.1	21528.1	21479.5	21877.8	21484.4
52.5°	13885.8	14148.1	15838.3	16967.5	18402.7	19937.5	22385.4	23490.3	24740.9	24165.4
55°	11158.7	11158.7	12533.2	14645.9	16843.7	19505.2	22759.3	24796.8	26691.0	26555.0
57.5°	9096.9	9206.2	10082.9	11950.4	14587.6	18475.6	22990.0	25617.6	28262.2	28162.6
60°	5614.6	5850.1	7506.3	9349.5	12020.8	16642.1	22844.3	26448.1	30168.5	30248.6
62.5°	3161.8	3249.3	3987.5	6726.8	9347.1	14177.2	21729.7	26912.0	32606.7	32946.6
65°	2183.2	2226.9	2511.0	4186.6	6479.1	11287.4	19551.4	26623.0	35049.7	35736.9
67.5°	1585.8	1607.6	1784.9	2557.1	3844.2	8183.8	16137.0	25165.9	36344.0	37492.7
70°	1219.1	1233.6	1362.4	1680.5	2270.6	5051.2	11719.6	22268.8	35406.6	36778.7
72.5°	990.8	1005.4	1104.9	1243.4	1505.6	2987.0	7103.2	18084.6	31268.6	32749.9
75°	835.4	854.8	944.7	1034.5	1180.2	1918.5	3331.8	12593.9	23514.6	24486.0
77.5°	463.8	427.4	767.4	857.2	995.7	1214.2	1559.1	7411.6	13169.4	13439.0
80°	289.0	298.7	609.5	689.7	765.0	612.0	714.0	2853.4	4565.5	4337.2
82.5°	17.0	38.9	468.7	497.8	524.5	262.3	269.6	968.9	1100.1	1010.2
85°	0.0	0.0	213.7	172.4	182.1	75.3	77.7	225.8	148.1	160.3
87.5°	0.0	0.0	0.0	4.9	0.0	7.3	14.6	19.4	7.3	9.7
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°
4509.6	0°	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6	4509.6
4740.3	2.5°	4570.3	4400.3	4055.5	3717.9	3443.5	3188.5	3006.4	2834.0	2746.6	2741.7
5046.3	5°	4708.7	4351.8	3662.1	3052.5	2562.0	2168.6	1913.6	1731.5	1639.2	1607.6
5422.7	7.5°	4903.0	4366.3	3317.2	2469.7	1891.8	1554.2	1408.5	1350.2	1330.8	1308.9
5847.7	10°	5148.3	4400.3	3008.8	1988.9	1491.1	1321.1	1262.8	1238.5	1223.9	1209.4
6326.1	12.5°	5422.7	4431.9	2702.9	1651.3	1311.4	1223.9	1182.6	1153.5	1134.1	1117.1
6816.6	15°	5689.8	4451.3	2384.7	1415.8	1219.1	1148.7	1104.9	1073.4	1046.7	1027.2
7297.5	17.5°	5954.5	4478.0	2086.0	1274.9	1143.8	1073.4	1029.7	990.8	968.9	947.1
7802.6	20°	6248.4	4473.2	1804.3	1175.4	1068.5	998.1	951.9	915.5	893.7	869.4
8336.8	22.5°	6520.4	4448.9	1556.6	1090.4	990.8	922.8	871.8	835.4	813.5	794.1
8883.2	25°	6833.6	4429.5	1350.2	1012.7	918.0	850.0	794.1	760.1	735.8	718.8
9432.1	27.5°	7134.8	4400.3	1199.6	942.2	847.5	782.0	728.5	689.7	667.8	655.7
9997.9	30°	7431.0	4393.0	1143.8	874.2	784.4	718.8	665.4	629.0	612.0	607.1
10619.6	32.5°	7788.0	4412.5	1168.1	850.0	726.1	660.5	609.5	582.8	565.8	565.8
11311.7	35°	8169.3	4407.6	1204.5	871.8	687.2	602.3	563.4	546.4	529.4	529.4
12079.1	37.5°	8647.7	4414.9	1233.6	908.2	672.7	553.7	531.8	510.0	500.3	500.3
12919.3	40°	9361.6	4655.3	1219.1	939.8	667.8	519.7	476.0	468.7	461.4	461.4
13868.8	42.5°	10235.9	5177.4	1238.5	942.2	665.4	495.4	437.1	451.7	434.7	432.3
14939.8	45°	11192.7	5748.1	1362.4	891.2	663.0	483.3	417.7	434.7	408.0	408.0
16180.7	47.5°	12142.2	6313.9	1488.6	818.4	655.7	480.8	400.7	391.0	383.7	386.1
17798.0	50°	13451.1	6775.3	1537.2	718.8	638.7	476.0	369.1	371.6	366.7	371.6
20078.3	52.5°	14876.6	6872.5	1478.9	607.1	590.1	461.4	347.3	357.0	354.6	359.4
21683.5	55°	15765.4	6768.1	1221.5	505.1	514.8	403.1	325.4	344.8	344.8	344.8
23252.3	57.5°	16683.4	6323.7	867.0	410.4	427.4	330.3	306.0	332.7	330.3	327.8
25141.6	60°	17343.9	5604.8	570.7	337.6	340.0	272.0	284.1	313.3	310.8	298.7
27089.2	62.5°	17836.9	4810.7	366.7	286.6	259.8	245.3	259.8	284.1	274.4	247.7
28740.6	65°	17781.0	3710.7	281.7	245.3	213.7	213.7	225.8	247.7	218.6	174.8
29056.3	67.5°	16744.1	2511.0	233.1	206.4	179.7	177.3	187.0	206.4	187.0	148.1
27438.9	70°	14891.2	1641.6	187.0	160.3	143.3	131.1	150.6	177.3	157.8	119.0
23359.2	72.5°	12086.3	1000.5	140.8	116.6	104.4	85.0	119.0	145.7	126.3	87.4
16243.8	75°	7819.6	510.0	97.1	75.3	55.9	51.0	87.4	109.3	87.4	53.4
7207.6	77.5°	2991.8	213.7	53.4	34.0	29.1	24.3	48.6	65.6	36.4	12.1
1396.4	80°	575.5	89.9	26.7	17.0	14.6	9.7	7.3	4.9	0.0	0.0
247.7	82.5°	99.6	29.1	9.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
48.6	85°	34.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.0	87.5°	12.1	0.0	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

180°
4509.6
2736.9
1602.8
1304.1
1204.5
1112.2
1024.8
944.7
867.0
791.7
716.4
655.7
604.7
565.8
529.4
500.3
461.4
429.8
408.0
386.1
371.6
359.4
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327.8
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