

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: P951800

Luminaire Tested: **GALN-SB5D-830-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
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-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

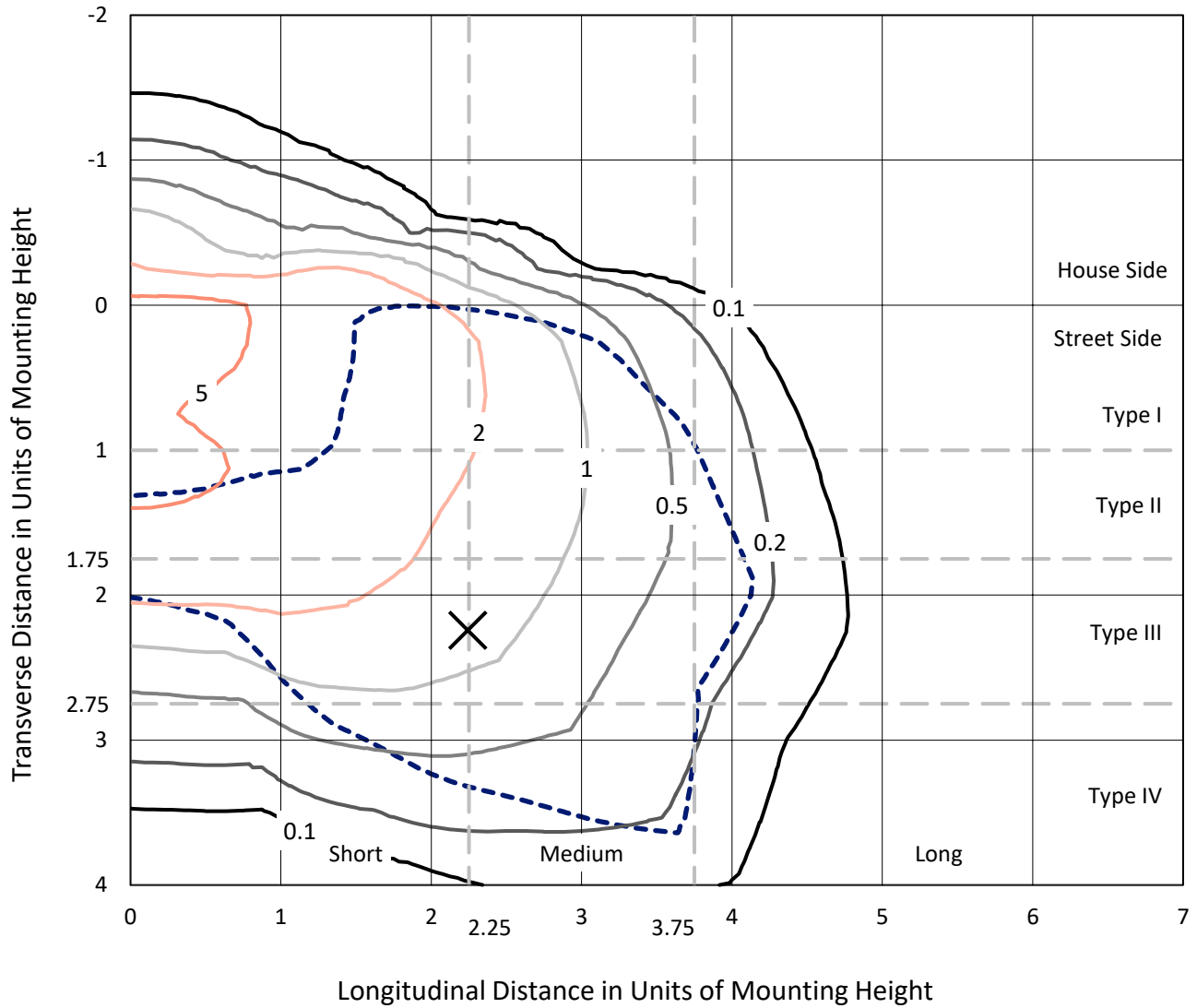
Lumens per Lamp: N/A  
Luminaire Lumens: 35579 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

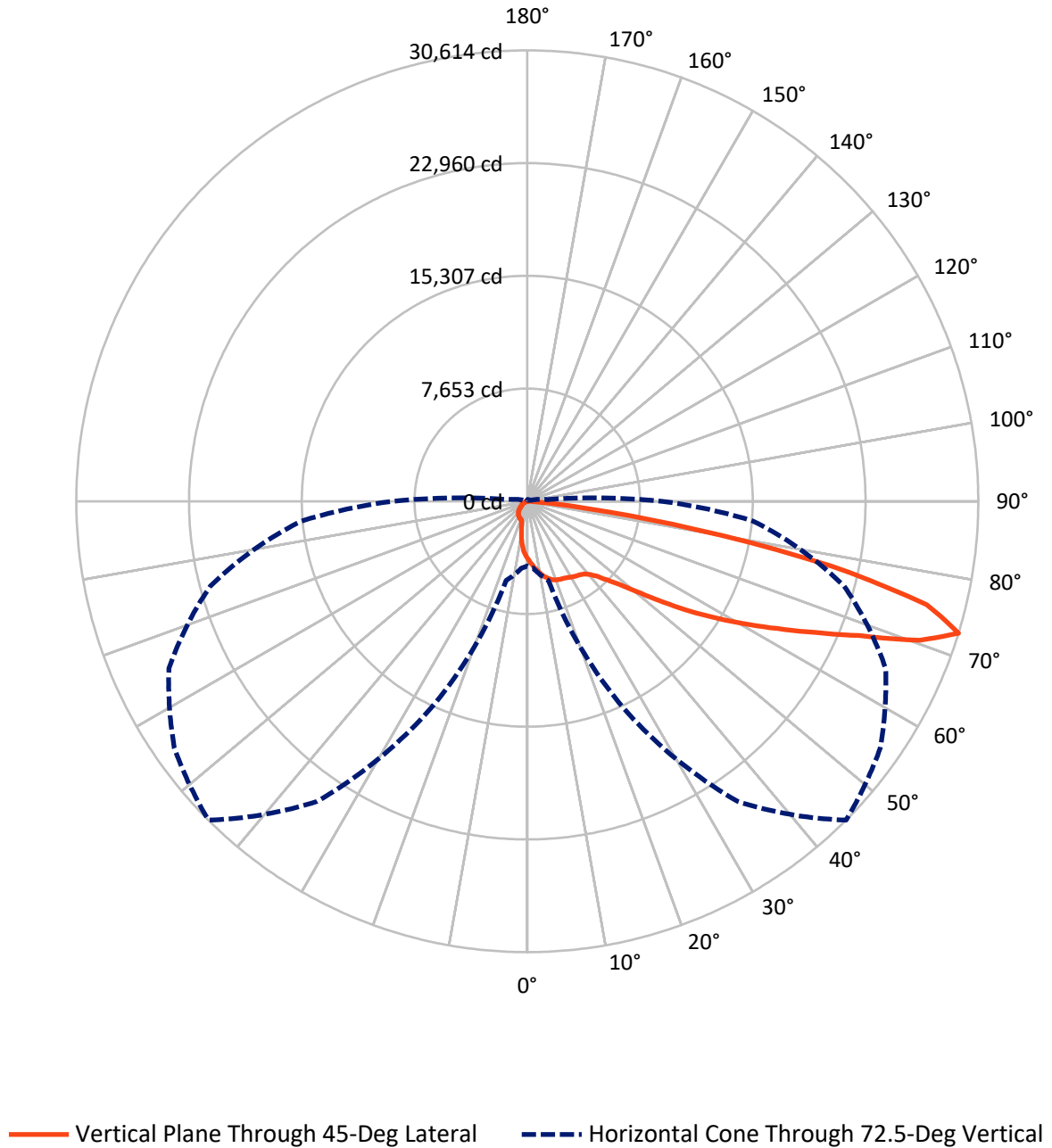
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3738.4	0.0	3738.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	31840.6	0.0	31840.6
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	35579.0	0.0	35579.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.2	1.0
10°-20°	1073.3	3.0
20°-30°	1762.5	5.0
30°-40°	2499.7	7.0
40°-50°	4131.7	11.6
50°-60°	7422.2	20.9
60°-70°	10306.1	29.0
70°-80°	7475.7	21.0
80°-90°	540.5	1.5
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°	35579.0	100.0
0°-180°	35579.0	100.0

**Coefficient of Utilization**



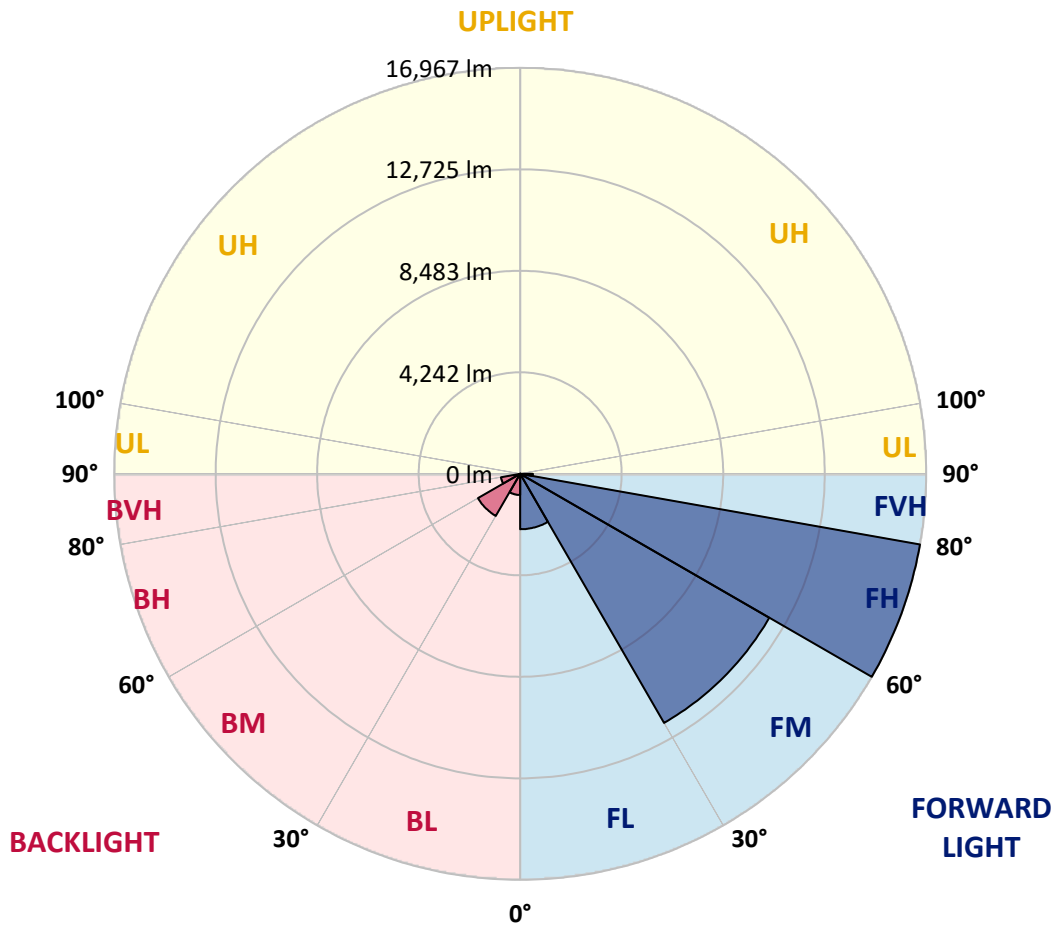
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.6	6.5			
FM (30°-60°)	12020.5	33.8			
FH (60°-80°)	16966.6	47.7			G5
FVH (80°-90°)	535.9	1.5			G4/750
BL (0°-30°)	885.5	2.5	B2/1000		
BM (30°-60°)	2033.1	5.7	B2/2500		
BH (60°-80°)	815.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.5	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-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8
2.5°	4257.2	4264.5	4259.6	4230.5	4181.9	4155.2	4140.6	4092.0	4060.5	4004.6
5°	4648.2	4677.3	4660.3	4602.0	4509.7	4444.2	4424.7	4325.2	4235.3	4130.9
7.5°	5063.4	5078.0	5046.4	4971.2	4847.3	4735.6	4718.6	4580.2	4436.9	4276.6
10°	5422.9	5439.9	5391.3	5282.0	5141.2	5002.7	4978.4	4825.4	4655.4	4458.7
12.5°	5724.0	5741.0	5677.9	5546.7	5391.3	5248.0	5223.7	5063.4	4876.4	4657.9
15°	5952.3	5983.8	5898.8	5758.0	5590.4	5447.1	5435.0	5277.1	5095.0	4852.2
17.5°	6085.8	6117.4	6037.3	5867.3	5724.0	5602.6	5588.0	5456.9	5286.9	5053.7
20°	6107.7	6136.8	6051.8	5903.7	5784.7	5687.6	5680.3	5585.6	5461.7	5238.3
22.5°	6042.1	6078.6	6000.8	5881.8	5799.3	5748.3	5738.6	5685.1	5614.7	5425.3
25°	5974.1	6003.3	5945.0	5840.6	5796.8	5792.0	5799.3	5789.6	5775.0	5614.7
27.5°	5969.3	6000.8	5935.3	5835.7	5811.4	5862.4	5869.7	5915.8	5928.0	5787.1
30°	6010.6	6032.4	5969.3	5864.8	5852.7	5969.3	5971.7	6054.3	6073.7	5932.8
32.5°	6100.4	6124.7	6061.6	5908.6	5891.6	6054.3	6061.6	6170.8	6202.4	6088.3
35°	6311.7	6340.8	6268.0	6030.0	5969.3	6134.4	6156.3	6285.0	6348.1	6253.4
37.5°	6838.7	6753.7	6654.1	6275.3	6146.6	6260.7	6297.1	6447.7	6559.4	6450.1
40°	8147.6	7880.5	7569.7	6693.0	6457.4	6530.3	6559.4	6710.0	6863.0	6756.1
42.5°	10112.3	9796.6	9296.3	7654.7	6926.1	6962.5	6984.4	7115.5	7331.7	7246.7
45°	11863.3	11749.1	11239.1	9296.3	7802.8	7623.1	7649.8	7717.8	8035.9	8004.4
47.5°	13208.7	13143.1	12749.7	11180.9	9284.2	8431.8	8507.1	8538.6	8997.6	9109.3
50°	14243.2	14218.9	13866.8	12856.5	11219.7	9624.2	9650.9	9582.9	10270.2	10547.0
52.5°	15219.5	15302.0	15042.2	14413.2	13286.4	11185.7	11180.9	10860.3	11788.0	12205.7
55°	16101.0	16130.1	16156.9	16001.4	15365.2	12963.4	12917.2	12392.7	13548.6	13980.9
57.5°	16929.1	16941.3	17179.3	17497.4	17529.0	14872.2	14787.2	14158.2	15472.0	15780.4
60°	17485.3	17541.1	18043.8	18927.8	19313.9	16841.7	16795.6	16154.4	17429.4	17572.7
62.5°	16683.8	17023.8	18291.5	20044.9	20999.3	19024.9	19003.1	18400.8	19488.8	19372.2
65°	13504.9	14080.5	16309.9	20800.2	22653.1	21463.2	21494.7	20853.6	21604.0	21225.2
67.5°	9446.9	10054.0	12691.4	20860.9	24501.2	24326.4	24508.5	23503.1	23850.4	23000.4
70°	6532.7	6846.0	8562.9	19554.3	25941.3	28270.3	28265.4	26757.3	26084.6	23809.1
72.5°	4393.2	4555.9	5561.3	15513.3	24882.5	30613.8	30472.9	29244.1	26837.4	22267.0
75°	1853.0	1971.9	2574.2	8718.3	19685.5	28008.0	27626.7	25844.2	23845.5	17533.8
77.5°	587.7	638.7	1015.1	3120.6	10843.3	21052.7	20649.6	16139.9	15982.0	8796.1
80°	279.3	325.4	570.7	1253.1	4266.9	11450.4	11394.6	7322.0	6875.1	2375.1
82.5°	121.4	143.3	315.7	670.3	1908.8	4084.8	4167.3	2491.6	2061.8	901.0
85°	38.9	51.0	145.7	308.4	806.3	1015.1	1003.0	592.6	830.5	490.6
87.5°	0.0	0.0	48.6	70.4	82.6	58.3	65.6	51.0	230.7	136.0
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°
3897.8	0°	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8	3897.8
3946.3	2.5°	3917.2	3878.3	3810.3	3747.2	3691.3	3635.5	3601.5	3552.9	3548.1	3548.1
4009.5	5°	3943.9	3880.8	3759.3	3630.6	3482.5	3341.6	3200.8	3064.8	3021.1	2989.5
4111.5	7.5°	4021.6	3922.0	3730.2	3484.9	3203.2	2894.8	2678.6	2445.5	2355.7	2307.1
4247.5	10°	4133.3	3997.3	3705.9	3276.1	2819.5	2399.4	2090.9	1838.4	1741.2	1700.0
4395.6	12.5°	4257.2	4089.6	3662.2	3016.2	2399.4	1896.7	1595.5	1479.0	1464.4	1464.4
4572.9	15°	4405.3	4201.3	3586.9	2710.2	1959.8	1500.8	1394.0	1398.8	1413.4	1423.1
4745.3	17.5°	4558.3	4320.3	3467.9	2367.8	1571.2	1350.3	1352.7	1360.0	1372.1	1381.8
4932.3	20°	4723.4	4439.3	3310.1	2003.5	1347.8	1306.5	1313.8	1321.1	1330.8	1335.7
5107.2	22.5°	4900.7	4551.0	3123.1	1646.5	1272.5	1270.1	1272.5	1279.8	1292.0	1292.0
5311.1	25°	5090.2	4674.9	2909.4	1386.7	1233.7	1233.7	1238.5	1243.4	1253.1	1253.1
5507.9	27.5°	5284.4	4789.0	2683.5	1250.7	1199.7	1197.3	1197.3	1204.5	1209.4	1211.8
5702.1	30°	5498.1	4922.6	2457.6	1221.5	1173.0	1160.8	1153.5	1158.4	1163.3	1165.7
5906.1	32.5°	5716.7	5051.3	2256.1	1233.7	1146.3	1124.4	1100.1	1095.3	1095.3	1105.0
6117.4	35°	5959.6	5192.1	2100.7	1275.0	1131.7	1071.0	1032.1	1010.3	1012.7	1027.3
6370.0	37.5°	6251.0	5362.1	1986.5	1311.4	1122.0	1010.3	947.1	920.4	903.4	920.4
6717.3	40°	6632.3	5612.3	1904.0	1340.5	1109.8	939.8	854.8	811.1	779.6	789.3
7256.4	42.5°	7193.2	6005.7	1872.4	1343.0	1083.1	857.3	760.1	701.8	655.7	658.1
8067.5	45°	7980.1	6627.4	2035.1	1311.4	1024.8	767.4	660.6	582.8	553.7	546.4
9279.3	47.5°	9058.3	7533.2	2411.5	1245.8	939.8	680.0	563.4	497.8	476.0	463.8
10870.0	50°	10503.3	8696.5	2829.2	1173.0	854.8	597.4	483.3	442.0	427.4	415.3
12757.0	52.5°	12179.0	9876.7	3171.6	1100.1	769.8	524.6	432.3	408.0	395.8	386.1
14578.3	55°	13716.2	10690.3	3152.2	1022.4	687.3	466.3	395.8	381.3	366.7	357.0
16147.1	57.5°	14673.0	10804.4	2598.5	937.4	592.6	420.1	361.8	352.1	335.1	323.0
17504.7	60°	15112.6	10153.6	1821.4	825.7	497.8	376.4	325.4	320.6	298.7	281.7
18789.4	62.5°	15192.7	8944.2	1214.3	687.3	415.3	335.1	289.0	281.7	252.6	223.4
19833.6	65°	14867.3	7215.1	840.3	536.7	354.6	291.4	247.7	233.1	201.6	172.4
20081.3	67.5°	13837.6	5065.9	585.3	386.1	301.1	230.7	196.7	191.9	167.6	143.3
18818.5	70°	11950.7	2887.5	391.0	289.0	238.0	157.9	155.4	160.3	136.0	116.6
15374.9	72.5°	9162.8	1321.1	242.9	211.3	162.7	106.9	123.9	126.3	104.4	87.4
9592.6	75°	5393.7	565.8	153.0	136.0	82.6	70.4	89.9	92.3	70.4	55.9
3506.8	77.5°	1836.0	213.7	97.1	80.1	41.3	38.9	58.3	58.3	38.9	21.9
704.3	80°	417.7	80.1	48.6	31.6	19.4	17.0	19.4	17.0	9.7	2.4
216.1	82.5°	119.0	31.6	19.4	12.1	7.3	7.3	2.4	0.0	0.0	0.0
75.3	85°	34.0	14.6	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
26.7	87.5°	14.6	2.4	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>
3897.8
3560.2
3004.1
2314.4
1700.0
1464.4
1423.1
1381.8
1338.1
1296.8
1255.5
1214.3
1170.5
1112.3
1034.5
915.5
784.4
648.4
536.7
456.6
412.8
383.7
352.1
320.6
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208.9
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136.0
106.9
77.7
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