

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: P954566

Luminaire Tested: **GALN-SB7D-740-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954566  
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-SB7D-740-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

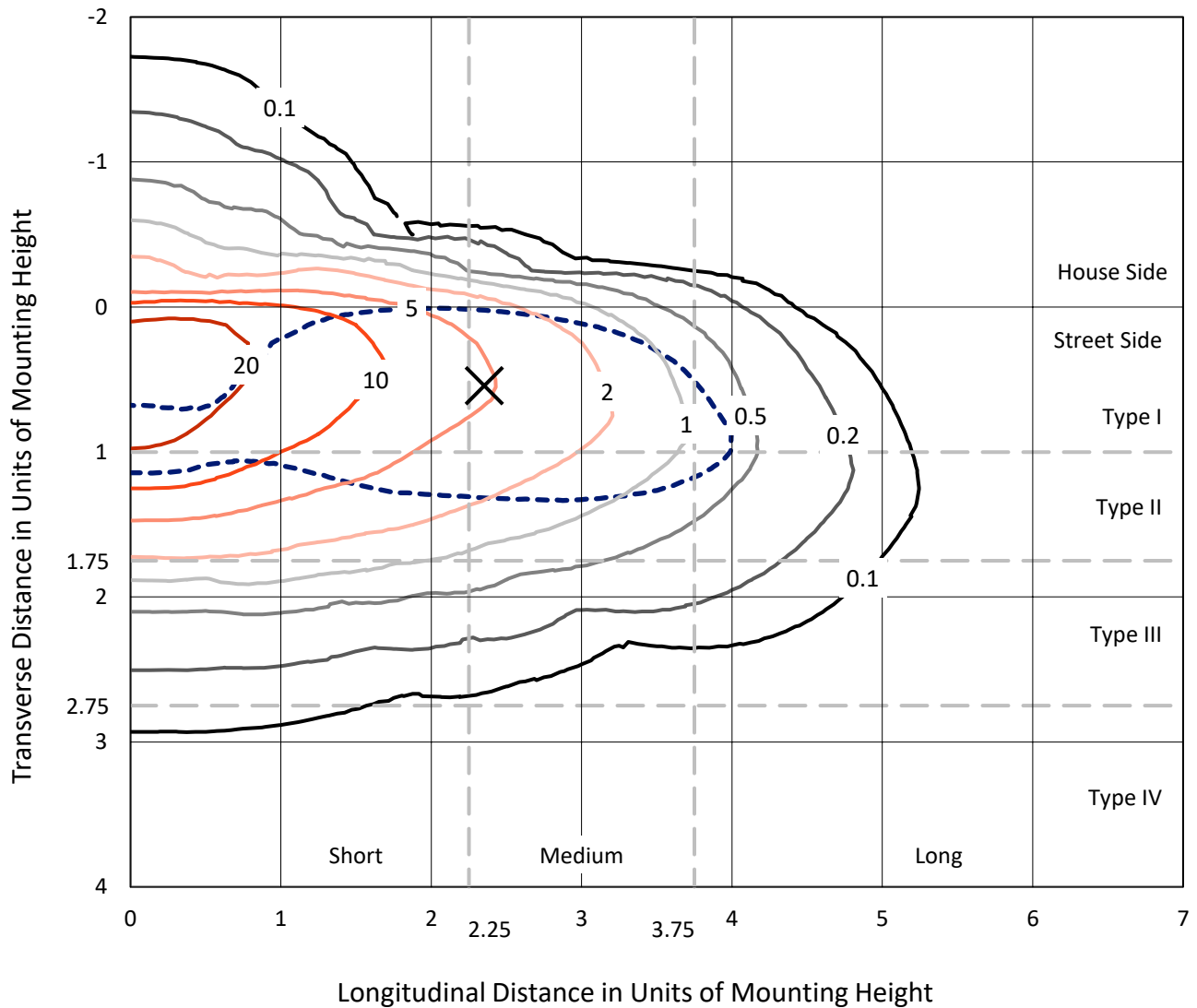
Lumens per Lamp: N/A  
Luminaire Lumens: 64825 lumens  
Efficiency: N/A  
Efficacy: 126.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

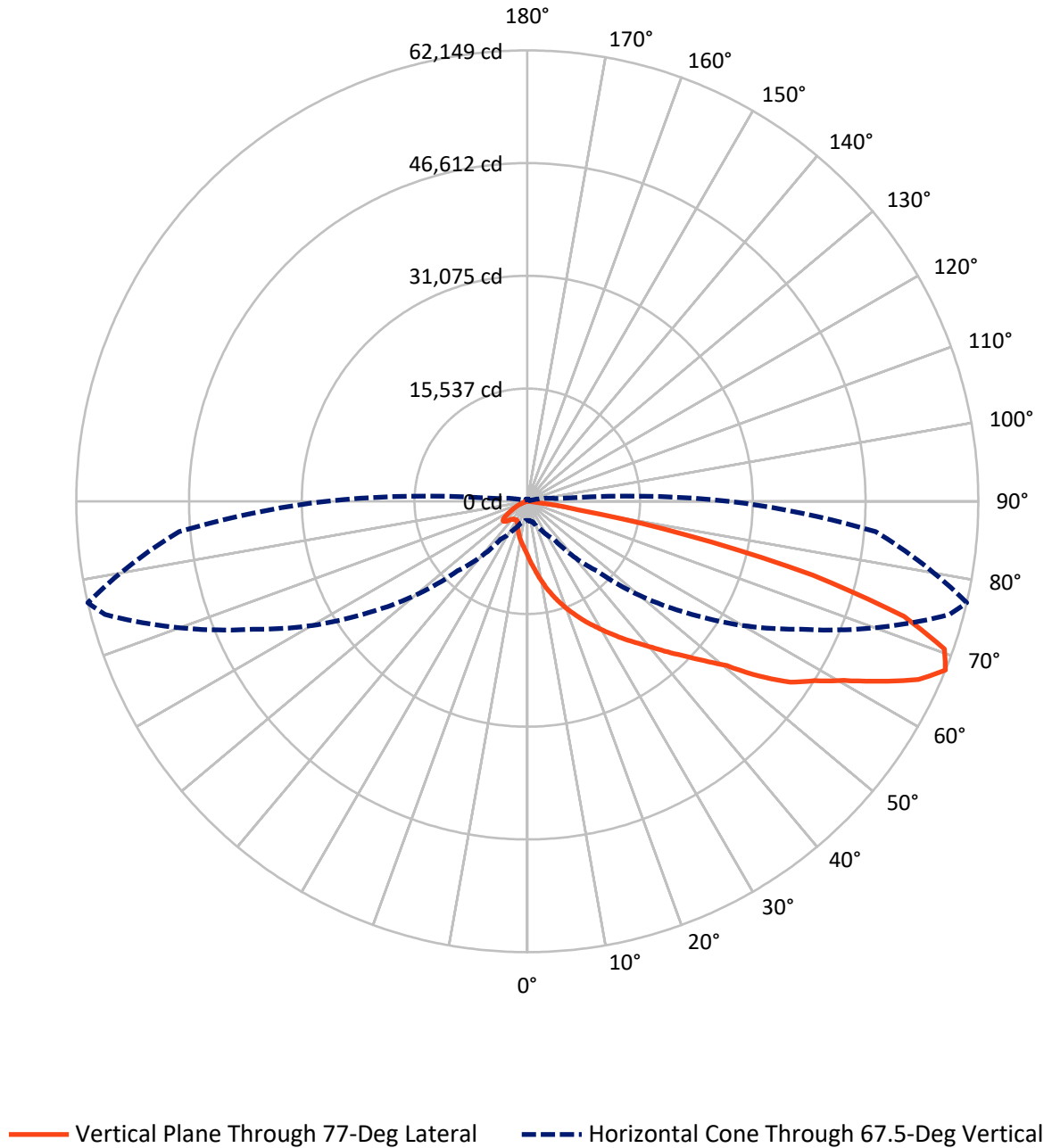
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28 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	4769.2	0.0	4769.2
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	60055.8	0.0	60055.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	64825.0	0.0	64825.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	763.0	1.2
10°-20°	2671.8	4.1
20°-30°	5155.9	8.0
30°-40°	8951.0	13.8
40°-50°	12996.3	20.0
50°-60°	14924.7	23.0
60°-70°	12957.4	20.0
70°-80°	6103.1	9.4
80°-90°	301.8	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°	64825.0	100.0
0°-180°	64825.0	100.0

**Coefficient of Utilization**

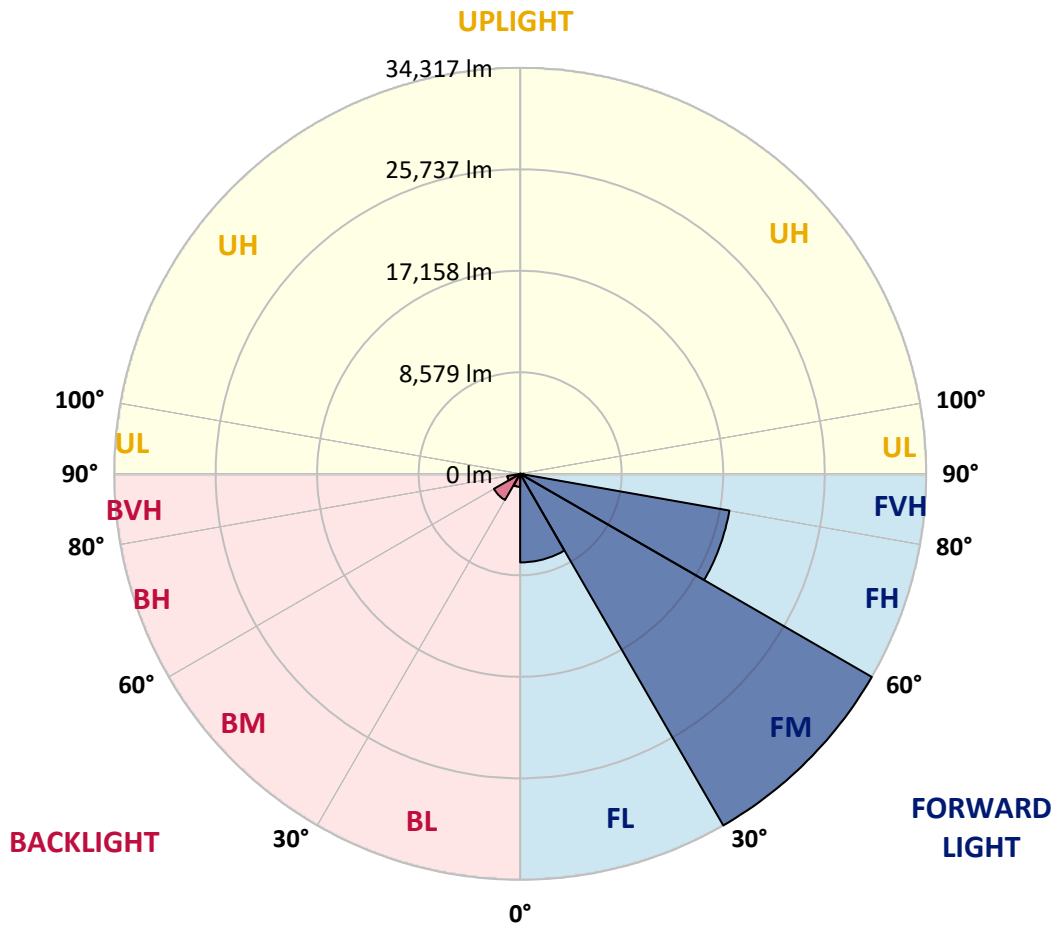


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7486.6	11.5			
FM (30°-60°)	34316.6	52.9			
FH (60°-80°)	17956.3	27.7			G5
FVH (80°-90°)	296.3	0.5			G3/500
BL (0°-30°)	1104.1	1.7	B3/2500		
BM (30°-60°)	2555.4	3.9	B3/5000		
BH (60°-80°)	1104.1	1.7	B3/2500		G3/2500
BVH (80°-90°)	5.6	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 II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3
2.5°	10349.5	10413.9	10321.3	10144.2	9878.5	9705.4	9282.7	8884.2	8441.4	8300.5
5°	12615.8	12672.1	12567.5	12374.3	12020.0	11681.9	11126.4	10293.1	9427.6	9149.9
7.5°	14294.4	14326.6	14286.4	14109.2	13771.1	13388.7	12768.8	11782.5	10498.4	10192.5
10°	15502.0	15606.7	15594.6	15526.2	15300.8	14990.8	14330.6	13207.5	11698.0	11303.5
12.5°	16303.1	16419.8	16488.3	16641.2	16629.2	16431.9	15852.3	14664.7	12893.5	12430.6
15°	16536.6	16661.4	16923.0	17277.3	17591.3	17691.9	17285.3	16093.8	14209.9	13618.1
17.5°	16403.7	16597.0	16910.9	17470.5	18158.8	18613.7	18569.4	17474.5	15405.4	14729.2
20°	16697.6	16882.8	17128.3	17599.3	18400.4	19225.6	19555.7	18794.9	16592.9	15884.5
22.5°	18323.9	18291.7	18315.8	18392.3	18871.3	19688.5	20368.8	19994.4	17768.4	17043.8
25°	20900.2	20755.3	20509.7	20095.1	19974.3	20368.8	21077.3	21057.2	19008.2	18231.3
27.5°	23854.9	23830.7	23255.1	22256.8	21693.2	21540.2	21878.4	22091.7	20236.0	19406.7
30°	26684.8	26749.2	25972.3	24861.2	23826.7	23226.9	22921.0	23073.9	21483.9	20674.8
32.5°	29148.3	29216.8	28371.4	27071.2	25791.1	25066.5	24422.5	24044.1	22844.5	21962.9
35°	31229.5	31297.9	30327.8	28890.7	27526.1	26869.9	26141.3	25106.8	24213.1	23391.9
37.5°	33089.3	33069.1	31768.9	30319.7	28979.3	28460.0	28077.6	26415.1	25622.0	24829.0
40°	34188.2	34272.7	33161.7	31563.6	30263.4	29885.0	29860.8	28037.3	27248.3	26479.5
42.5°	34510.3	34659.2	33854.1	32541.8	31362.3	30951.7	31583.7	29792.4	29140.3	28391.6
45°	33930.6	34075.5	33709.2	32799.4	32111.1	31845.4	33065.1	31611.9	31161.1	30420.4
47.5°	32239.9	32421.0	32509.6	32316.4	32308.3	32578.0	34393.5	33528.0	33560.2	32803.5
50°	28967.2	29273.1	30086.3	30770.6	31829.3	33157.7	35685.7	35605.2	36265.4	35613.2
52.5°	23017.6	23452.3	26254.0	28125.9	30504.9	33049.0	37106.7	38938.3	41011.4	40057.3
55°	18497.0	18497.0	20775.4	24277.5	27920.6	32332.5	37726.6	41104.0	44243.8	44018.4
57.5°	15079.4	15260.5	16713.7	19809.3	24180.9	30625.7	38109.0	42464.6	46848.3	46683.2
60°	9306.9	9697.3	12442.7	15498.0	19926.0	27586.5	37867.5	43841.3	50008.3	50141.1
62.5°	5241.1	5386.1	6609.8	11150.5	15494.0	23500.6	36019.8	44610.1	54049.8	54613.4
65°	3618.9	3691.3	4162.3	6939.9	10739.9	18710.3	32409.0	44131.1	58099.4	59238.6
67.5°	2628.6	2664.9	2958.7	4238.8	6372.3	13565.8	26749.2	41715.8	60245.0	62149.0
70°	2020.8	2044.9	2258.3	2785.6	3763.8	8373.0	19426.9	36913.4	58691.2	60965.6
72.5°	1642.4	1666.5	1831.6	2061.0	2495.8	4951.3	11774.5	29977.6	51831.8	54287.3
75°	1384.8	1417.0	1565.9	1714.8	1956.4	3180.1	5522.9	20876.0	38978.5	40588.7
77.5°	768.9	708.5	1272.0	1421.0	1650.4	2012.7	2584.3	12285.7	21830.1	22276.9
80°	479.0	495.1	1010.4	1143.2	1268.0	1014.4	1183.5	4729.9	7567.9	7189.5
82.5°	28.2	64.4	776.9	825.2	869.5	434.7	446.8	1606.2	1823.5	1674.6
85°	0.0	0.0	354.2	285.8	301.9	124.8	128.8	374.4	245.6	265.7
87.5°	0.0	0.0	0.0	8.1	0.0	12.1	24.2	32.2	12.1	16.1
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°
7475.3	0°	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3	7475.3
7857.7	2.5°	7575.9	7294.1	6722.5	6163.0	5708.1	5285.4	4983.5	4697.7	4552.8	4544.7
8364.9	5°	7805.4	7213.6	6070.4	5060.0	4246.9	3594.7	3172.1	2870.2	2717.2	2664.9
8988.8	7.5°	8127.4	7237.8	5498.8	4093.9	3135.8	2576.3	2334.8	2238.2	2206.0	2169.7
9693.3	10°	8534.0	7294.1	4987.5	3296.9	2471.6	2189.8	2093.2	2053.0	2028.8	2004.7
10486.3	12.5°	8988.8	7346.5	4480.3	2737.3	2173.7	2028.8	1960.4	1912.1	1879.9	1851.7
11299.5	15°	9431.6	7378.7	3953.0	2346.8	2020.8	1904.0	1831.6	1779.3	1735.0	1702.8
12096.5	17.5°	9870.4	7422.9	3457.9	2113.4	1896.0	1779.3	1706.8	1642.4	1606.2	1569.9
12933.8	20°	10357.5	7414.9	2990.9	1948.3	1771.2	1654.5	1578.0	1517.6	1481.4	1441.1
13819.4	22.5°	10808.4	7374.6	2580.3	1807.4	1642.4	1529.7	1445.1	1384.8	1348.5	1316.3
14725.1	25°	11327.6	7342.4	2238.2	1678.6	1521.6	1408.9	1316.3	1260.0	1219.7	1191.5
15634.9	27.5°	11826.8	7294.1	1988.6	1561.9	1404.9	1296.2	1207.6	1143.2	1107.0	1086.9
16572.8	30°	12317.9	7282.1	1896.0	1449.2	1300.2	1191.5	1103.0	1042.6	1014.4	1006.4
17603.3	32.5°	12909.6	7314.3	1936.2	1408.9	1203.6	1094.9	1010.4	966.1	937.9	937.9
18750.6	35°	13541.6	7306.2	1996.6	1445.1	1139.2	998.3	933.9	905.7	877.5	877.5
20022.6	37.5°	14334.7	7318.3	2044.9	1505.5	1115.1	917.8	881.6	845.3	829.2	829.2
21415.4	40°	15518.1	7716.8	2020.8	1557.9	1107.0	861.4	789.0	776.9	764.8	764.8
22989.4	42.5°	16967.3	8582.3	2053.0	1561.9	1103.0	821.2	724.6	748.7	720.6	716.5
24764.6	45°	18553.3	9528.3	2258.3	1477.3	1099.0	801.1	692.4	720.6	676.3	676.3
26821.6	47.5°	20127.3	10466.2	2467.6	1356.6	1086.9	797.0	664.2	648.1	636.0	640.0
29502.6	50°	22297.0	11231.0	2548.1	1191.5	1058.7	789.0	611.9	615.9	607.8	615.9
33282.5	52.5°	24660.0	11392.0	2451.5	1006.4	978.2	764.8	575.6	591.7	587.7	595.8
35943.3	55°	26133.3	11219.0	2024.8	837.3	853.4	668.2	539.4	571.6	571.6	571.6
38543.8	57.5°	27654.9	10482.3	1437.1	680.3	708.5	547.5	507.2	551.5	547.5	543.4
41675.6	60°	28749.8	9290.8	946.0	559.5	563.6	450.9	471.0	519.3	515.3	495.1
44904.0	62.5°	29567.0	7974.4	607.8	475.0	430.7	406.6	430.7	471.0	454.9	410.6
47641.3	65°	29474.4	6150.9	467.0	406.6	354.2	354.2	374.4	410.6	362.3	289.8
48164.6	67.5°	27755.5	4162.3	386.4	342.2	297.9	293.9	310.0	342.2	310.0	245.6
45483.6	70°	24684.1	2721.2	310.0	265.7	237.5	217.4	249.6	293.9	261.7	197.2
38720.9	72.5°	20034.7	1658.5	233.5	193.2	173.1	140.9	197.2	241.5	209.3	144.9
26926.3	75°	12962.0	845.3	161.0	124.8	92.6	84.5	144.9	181.1	144.9	88.6
11947.6	77.5°	4959.4	354.2	88.6	56.4	48.3	40.3	80.5	108.7	60.4	20.1
2314.6	80°	954.0	148.9	44.3	28.2	24.2	16.1	12.1	8.1	0.0	0.0
410.6	82.5°	165.0	48.3	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
80.5	85°	56.4	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28.2	87.5°	20.1	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

<u>180°</u>
7475.3
4536.7
2656.8
2161.7
1996.6
1843.7
1698.7
1565.9
1437.1
1312.3
1187.5
1086.9
1002.3
937.9
877.5
829.2
764.8
712.5
676.3
640.0
615.9
595.8
571.6
543.4
495.1
402.5
281.8
237.5
189.2
136.9
76.5
16.1
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