

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: P954570

Luminaire Tested: **GALN-SB7D-740-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954570  
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-SB7D-740-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

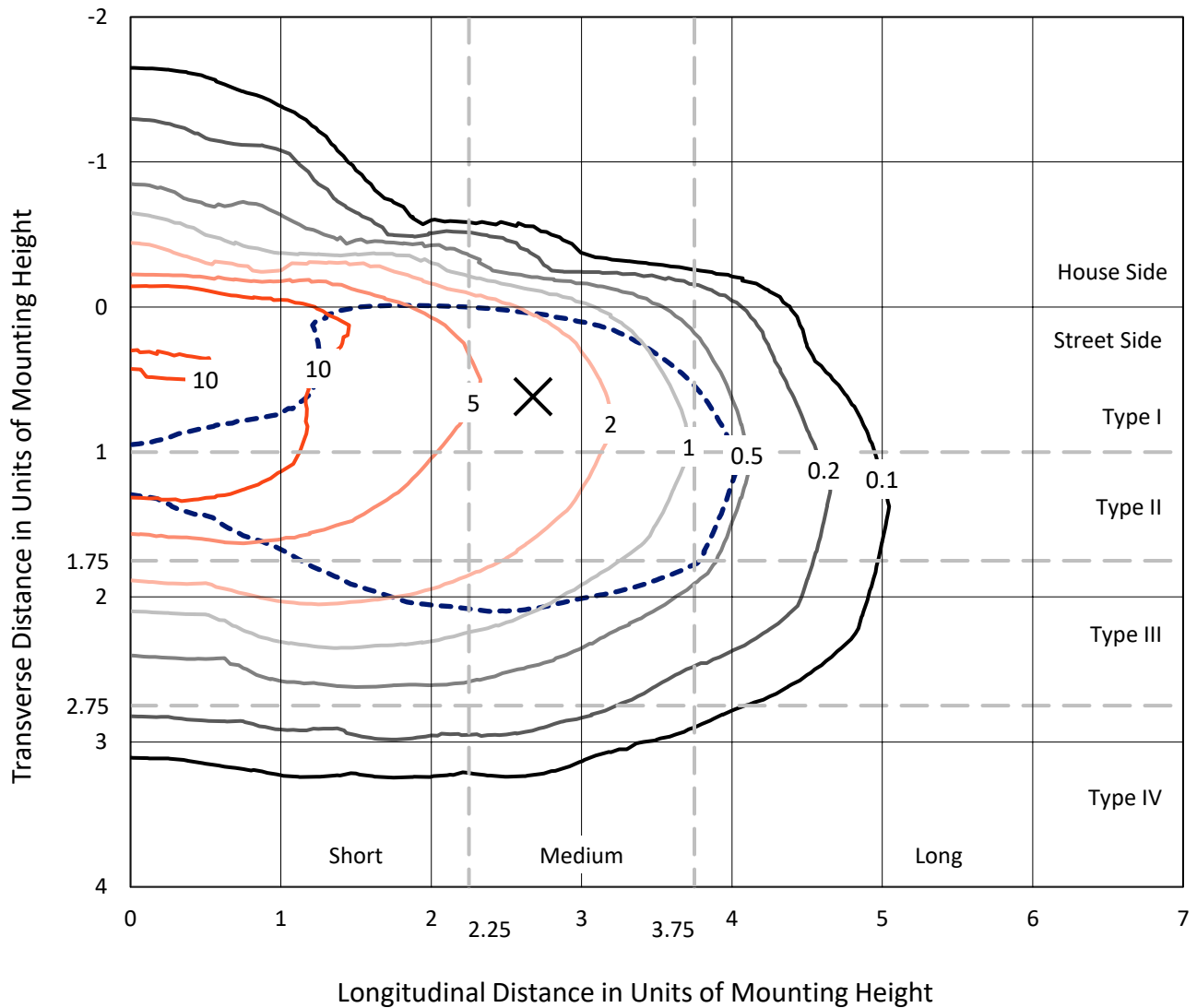
Lumens per Lamp: N/A  
Luminaire Lumens: 63742 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): 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

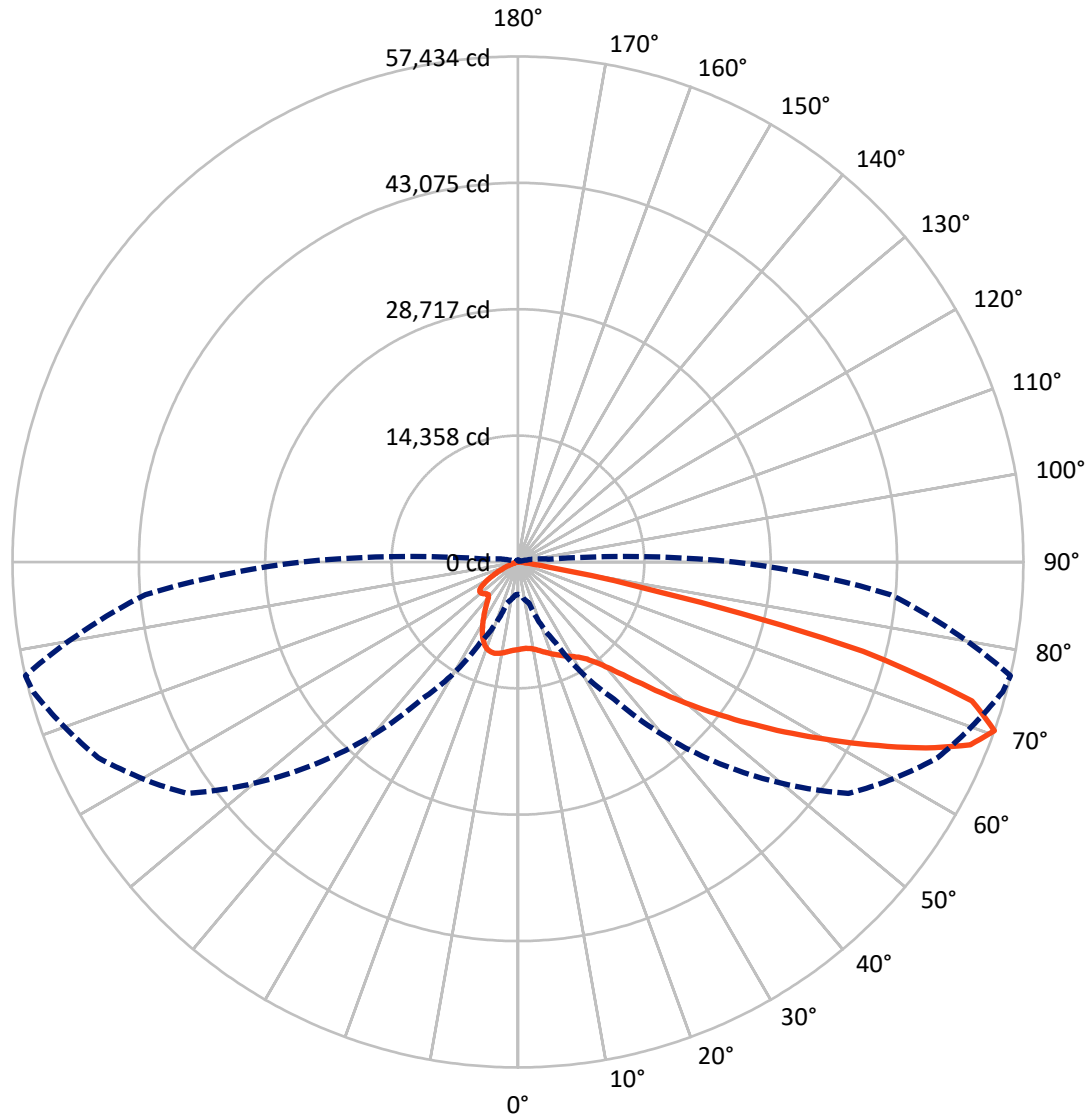
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P954570  
CATALOG NUMBER: GALN-SB7D-740-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GALN-SB7D-740-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6719.3	0.0	6719.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	57022.7	0.0	57022.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	63742.0	0.0	63742.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	856.9	1.3
10°-20°	2034.2	3.2
20°-30°	3146.3	4.9
30°-40°	5709.1	9.0
40°-50°	10776.7	16.9
50°-60°	15571.4	24.4
60°-70°	16575.3	26.0
70°-80°	8783.8	13.8
80°-90°	288.4	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°	63742.0	100.0
0°-180°	63742.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954570

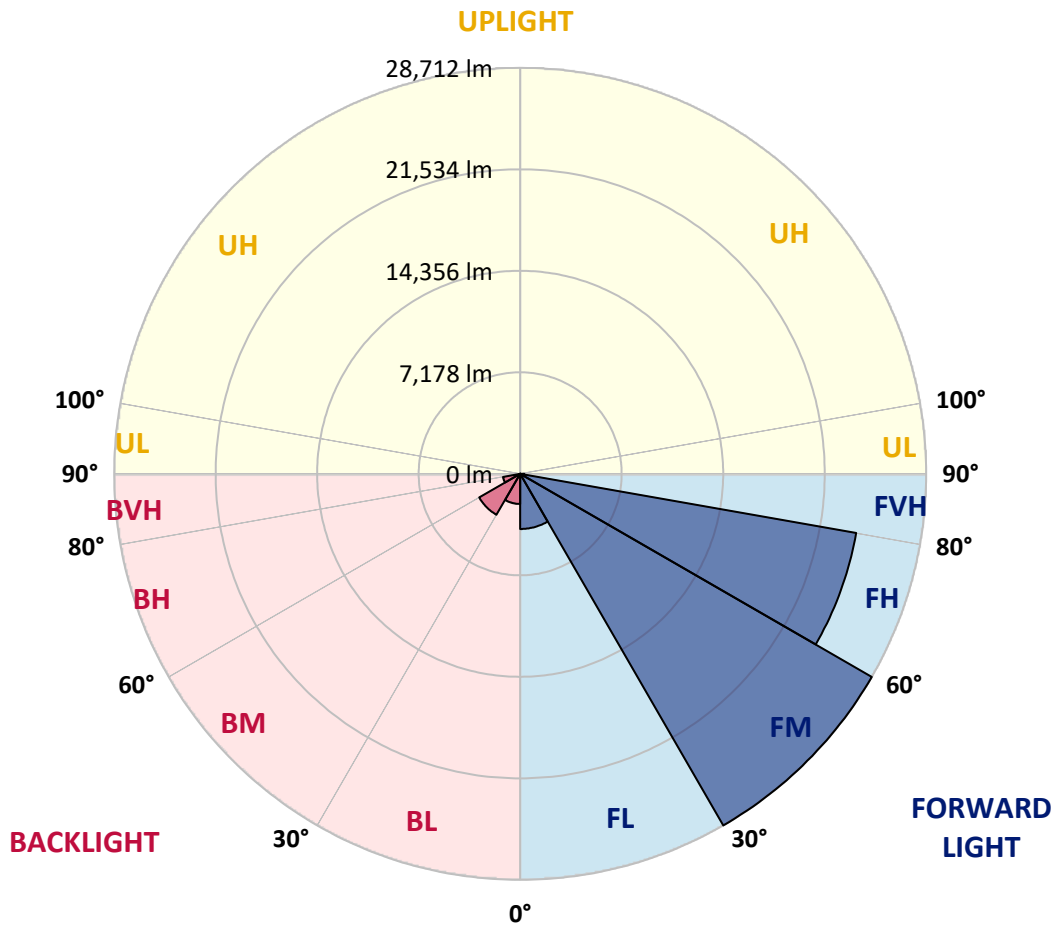
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3902.5	6.1			
FM (30°-60°)	28712.3	45.0			
FH (60°-80°)	24127.3	37.9			G5
FVH (80°-90°)	280.7	0.4			G3/500
BL (0°-30°)	2134.8	3.3	B3/2500		
BM (30°-60°)	3344.9	5.2	B3/5000		
BH (60°-80°)	1231.8	1.9	B3/2500		G3/2500
BVH (80°-90°)	7.8	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



REPORT NUMBER: P954570  
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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6
2.5°	9334.8	9419.3	9407.2	9463.6	9483.7	9564.2	9644.7	9753.4	9874.2	9870.1
5°	8807.5	8892.0	8912.1	8988.6	9085.2	9210.0	9375.0	9592.4	9817.8	9854.0
7.5°	8183.5	8272.1	8324.4	8477.4	8654.5	8912.1	9181.8	9499.8	9874.2	9926.5
10°	7559.6	7640.1	7708.5	7925.9	8207.7	8590.1	9028.8	9487.7	9990.9	10067.4
12.5°	7173.2	7249.6	7326.1	7515.3	7865.5	8332.5	8928.2	9544.1	10184.1	10292.8
15°	7036.3	7104.7	7165.1	7334.2	7660.2	8191.6	8908.1	9660.8	10429.7	10574.6
17.5°	7056.4	7092.7	7132.9	7261.7	7579.7	8127.2	8944.3	9862.1	10719.5	10848.3
20°	7173.2	7193.3	7197.3	7285.9	7567.6	8119.1	9016.8	10055.3	10993.2	11166.3
22.5°	7322.1	7330.2	7322.1	7382.5	7644.1	8179.5	9113.4	10288.8	11299.1	11460.2
25°	8018.5	7865.5	7672.3	7555.6	7772.9	8296.2	9258.3	10602.8	11633.2	11790.2
27.5°	10180.1	9741.3	9049.0	8272.1	8038.6	8465.3	9459.6	10920.8	11971.4	12112.3
30°	13690.2	13114.6	11939.2	10188.1	8892.0	8819.5	9721.2	11238.8	12329.6	12482.6
32.5°	17208.3	17067.5	15710.9	13287.7	10812.1	9608.5	10155.9	11669.5	12804.6	12925.4
35°	20766.8	20481.0	19370.0	16974.9	13770.7	11214.6	10880.5	12233.0	13428.5	13565.4
37.5°	23491.9	23318.8	22630.5	20658.1	17280.8	13694.2	12120.3	13106.5	14334.3	14487.2
40°	25899.1	25818.6	25585.1	24284.9	21205.5	16938.6	14048.5	14459.0	15590.2	15771.3
42.5°	27791.0	27980.2	28113.0	27750.7	25251.0	20642.0	16640.8	16359.0	17341.2	17526.3
45°	29727.2	29791.6	30326.9	30850.2	29268.3	24514.3	19563.2	18585.0	19518.9	19748.3
47.5°	30971.0	31228.6	32170.6	33092.4	32645.5	28354.5	22702.9	21213.6	22042.8	22473.5
50°	31063.6	31550.6	32846.8	34452.9	35105.0	32009.5	26116.4	24208.4	25090.0	25565.0
52.5°	29521.9	30278.6	32287.3	34638.1	36433.4	35105.0	29646.7	27203.3	28334.4	28954.3
55°	22634.5	23624.7	30182.0	33631.8	36485.7	37451.8	33084.3	30322.9	31949.2	32649.6
57.5°	19720.2	20219.3	23729.4	31884.8	35515.6	38397.8	36191.9	33293.6	35881.9	36751.4
60°	16407.3	17063.4	19901.3	29026.8	34199.3	38490.3	38937.2	37125.8	40144.8	41122.9
62.5°	11150.2	11862.7	14684.5	24115.8	32400.0	38446.1	41187.3	41070.6	44882.6	45933.2
65°	6907.5	7354.3	9214.0	19692.0	29884.2	38494.4	43542.2	45860.7	49882.1	50948.8
67.5°	5458.4	5663.7	6633.8	15119.2	25548.9	37407.5	45893.0	50365.1	54587.7	55433.0
70°	3667.1	3791.9	4826.4	10135.8	19007.7	32391.9	45848.7	52627.4	57011.0	57433.6
72.5°	1932.2	2028.8	2821.8	4693.6	11480.3	23025.0	38647.3	49922.3	54599.8	53963.8
75°	966.1	1127.1	1900.0	2383.0	4902.9	12840.8	23999.1	39359.8	42974.6	40511.1
77.5°	732.6	885.6	1569.9	1569.9	1706.7	4323.2	10164.0	21467.2	19800.7	16487.8
80°	466.9	603.8	1372.6	1187.5	712.5	1098.9	2648.7	6013.9	4206.5	3200.1
82.5°	273.7	394.5	1143.2	784.9	398.5	406.6	748.7	1280.1	1090.9	849.3
85°	108.7	257.6	784.9	310.0	157.0	100.6	225.4	273.7	225.4	169.1
87.5°	0.0	60.4	136.9	0.0	12.1	8.1	16.1	20.1	20.1	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954570  
 CATALOG NUMBER: GALN-SB7D-740-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9942.6	0°	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6	9942.6
9950.7	2.5°	9986.9	9994.9	10019.1	10023.1	9966.8	9894.3	9866.1	9854.0	9805.7	9801.7
10015.1	5°	10107.6	10143.9	10107.6	10003.0	9753.4	9403.2	9137.5	8920.2	8722.9	8662.5
10236.5	7.5°	10349.2	10385.4	10276.7	9866.1	9238.2	8541.8	7913.8	7471.0	7072.5	6923.6
10506.1	10°	10695.3	10743.6	10401.5	9572.3	8461.3	7342.2	6279.5	5530.8	4947.1	4709.7
10872.5	12.5°	11130.1	11150.2	10469.9	9125.5	7450.9	5852.9	4347.4	3546.3	3027.1	2833.8
11315.2	15°	11609.1	11580.9	10478.0	8517.6	6074.2	4138.1	2837.9	2330.7	2121.4	2057.0
11758.0	17.5°	12112.3	11995.5	10317.0	7640.1	4564.7	2829.8	2105.3	1984.5	1948.3	1932.2
12196.8	20°	12607.4	12345.7	10023.1	6492.9	3276.6	2113.3	1912.0	1875.8	1855.7	1847.6
12639.6	22.5°	13058.2	12611.4	9519.9	5160.5	2379.0	1867.8	1807.4	1775.2	1738.9	1722.8
13070.3	25°	13497.0	12764.4	8811.5	3916.7	1904.0	1747.0	1698.7	1638.3	1590.0	1569.9
13533.2	27.5°	13923.7	12861.0	7925.9	2898.2	1698.7	1634.3	1545.7	1461.2	1425.0	1416.9
14028.3	30°	14378.5	12893.2	6919.6	2161.6	1573.9	1493.4	1364.6	1268.0	1247.9	1251.9
14696.5	32.5°	14934.0	12941.5	5905.2	1771.2	1469.3	1324.3	1171.4	1070.7	1054.6	1070.7
15670.7	35°	15598.2	13038.1	4927.0	1630.3	1376.7	1151.2	986.2	901.7	885.6	897.7
16918.5	37.5°	16499.9	13195.1	4013.3	1602.1	1300.2	1006.3	829.2	760.8	760.8	764.8
18448.2	40°	17699.4	13613.7	3196.1	1582.0	1259.9	897.7	700.4	672.2	684.3	692.4
20396.4	42.5°	19160.6	14503.3	2644.7	1557.8	1215.7	849.3	636.0	623.9	644.1	652.1
22731.1	45°	20799.0	15630.4	2451.4	1517.6	1175.4	881.6	607.8	591.7	615.9	619.9
25347.6	47.5°	22493.6	16733.4	2427.3	1473.3	1135.1	929.9	599.8	563.5	591.7	595.8
28141.2	50°	24208.4	17453.9	2451.4	1404.8	1070.7	929.9	603.8	535.4	559.5	571.6
31039.4	52.5°	25935.3	17784.0	2435.3	1255.9	958.0	873.5	603.8	511.2	535.4	543.4
34171.1	55°	27609.8	17719.6	2189.8	1034.5	813.1	772.9	587.7	491.1	507.2	511.2
37129.8	57.5°	28934.2	16821.9	1734.9	805.1	660.2	644.1	535.4	466.9	479.0	475.0
39842.9	60°	29626.5	14849.5	1239.8	619.9	519.3	507.2	471.0	434.7	442.8	422.7
42141.3	62.5°	29634.6	12241.1	829.2	491.1	414.6	402.5	402.5	390.5	382.4	342.2
43920.5	65°	29002.6	9346.8	551.5	390.5	334.1	314.0	338.1	334.1	305.9	249.6
44464.0	67.5°	27569.6	6126.6	418.6	305.9	257.6	245.5	269.7	281.8	261.6	209.3
42483.5	70°	24623.0	3566.5	346.2	237.5	193.2	181.1	217.4	241.5	217.4	169.1
36312.6	72.5°	20452.8	1924.1	281.8	177.1	132.8	120.8	173.1	197.2	173.1	124.8
23298.7	75°	13271.6	1030.5	217.4	116.7	68.4	76.5	128.8	144.9	120.8	80.5
6839.1	77.5°	4456.1	454.9	136.9	56.4	32.2	32.2	76.5	88.6	56.4	28.2
1243.8	80°	994.3	189.2	56.4	24.2	12.1	12.1	16.1	16.1	8.1	0.0
382.4	82.5°	326.1	76.5	24.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
96.6	85°	124.8	28.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.2	87.5°	48.3	4.0	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>
9942.6
9809.8
8626.3
6863.2
4609.0
2773.5
2057.0
1928.1
1839.6
1718.8
1561.8
1408.9
1251.9
1066.7
893.6
760.8
692.4
652.1
623.9
599.8
575.6
543.4
511.2
475.0
418.6
330.1
241.5
205.3
<i>161.0</i>
120.8
72.5
24.2
0.0
0.0
0.0
0.0
0.0

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