

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: P957653

Luminaire Tested: **GALN-SB9D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957653
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-SB9D-940-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 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: 56867 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

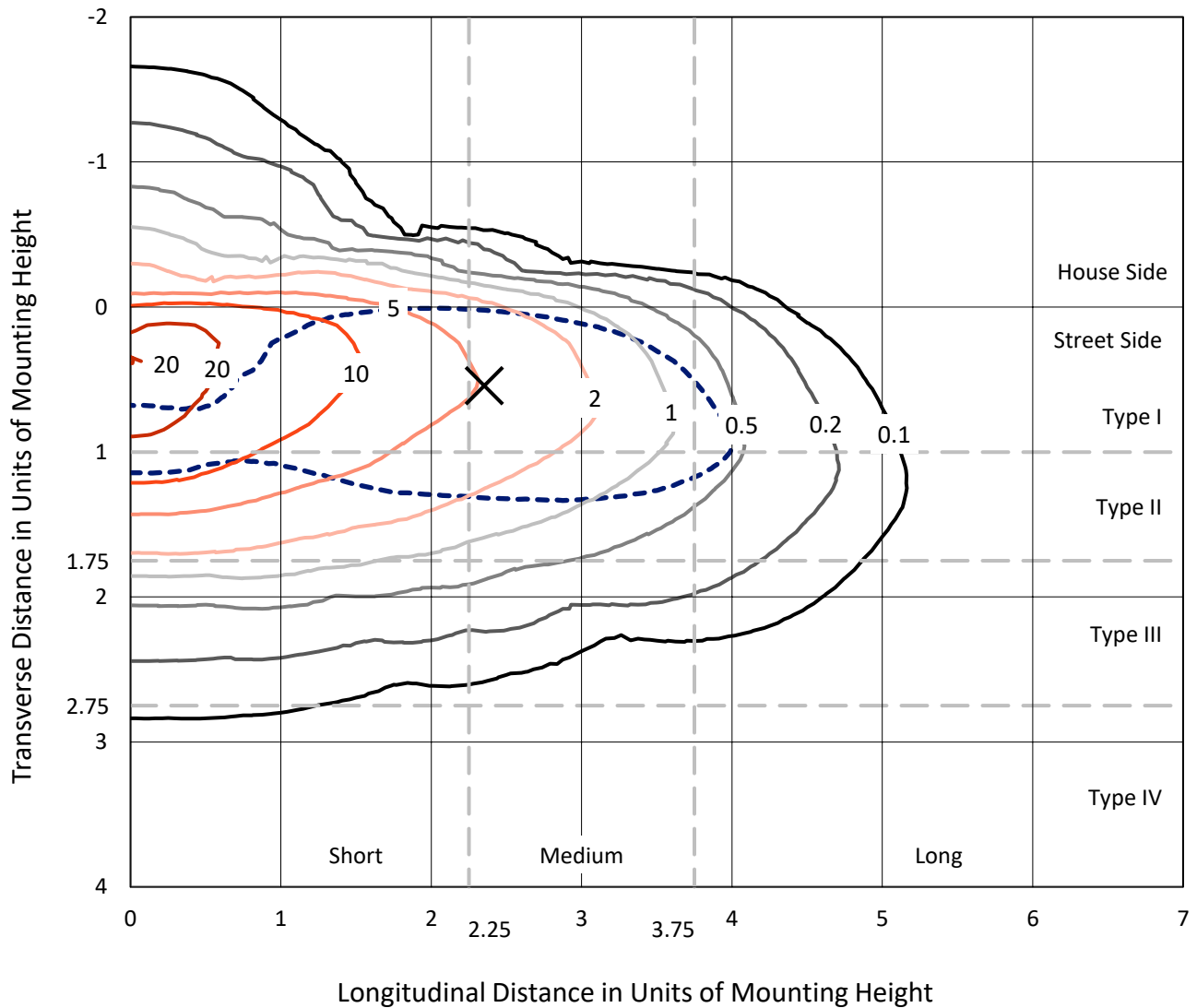
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

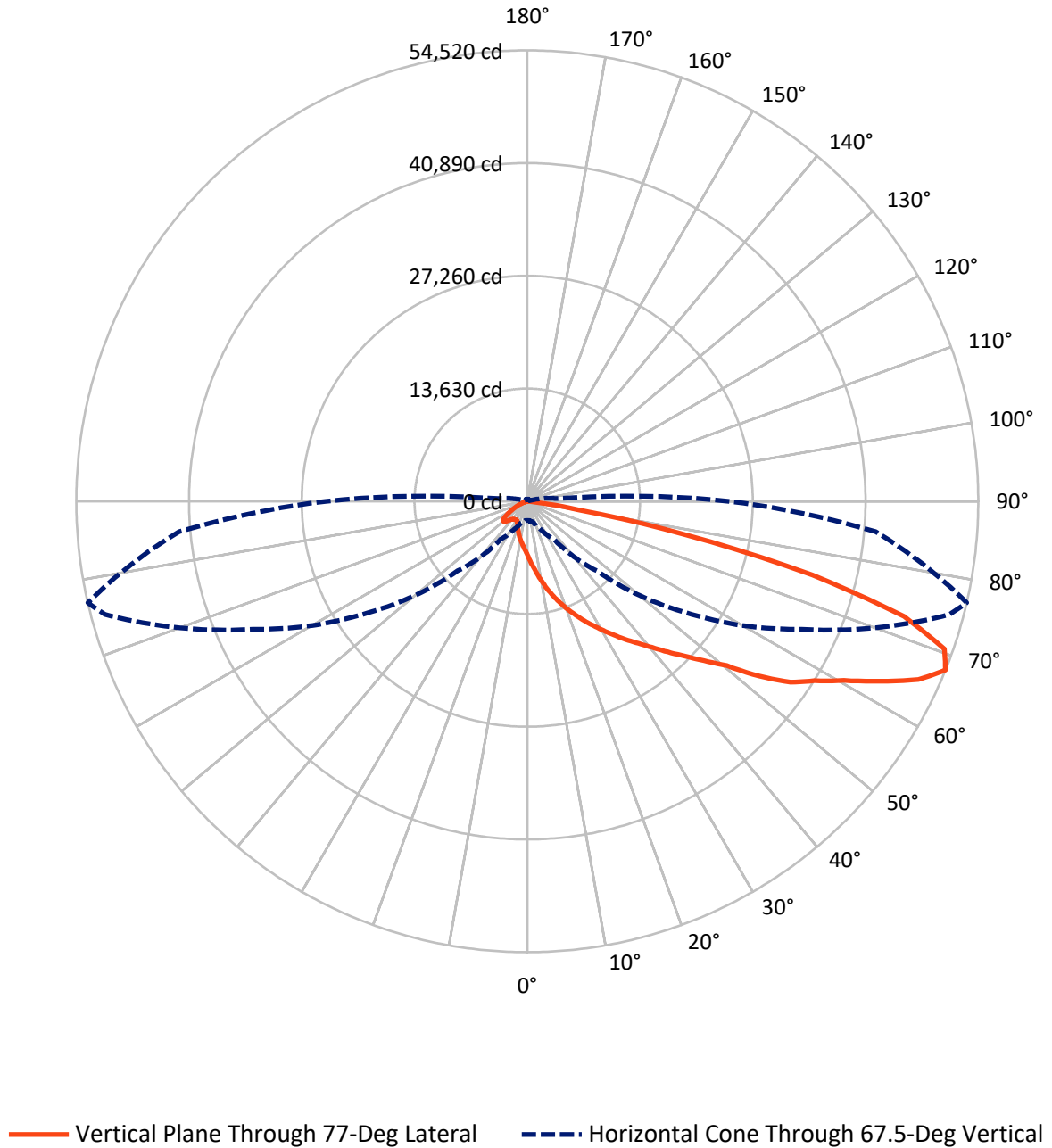
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4183.7	0.0	4183.7
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	52683.3	0.0	52683.3
	% Fixture	92.6	0.0	92.6
Total	Lumens	56867.0	0.0	56867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.3	1.2
10°-20°	2343.8	4.1
20°-30°	4523.0	8.0
30°-40°	7852.1	13.8
40°-50°	11400.9	20.0
50°-60°	13092.5	23.0
60°-70°	11366.7	20.0
70°-80°	5353.8	9.4
80°-90°	264.8	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°	56867.0	100.0
0°-180°	56867.0	100.0

Coefficient of Utilization

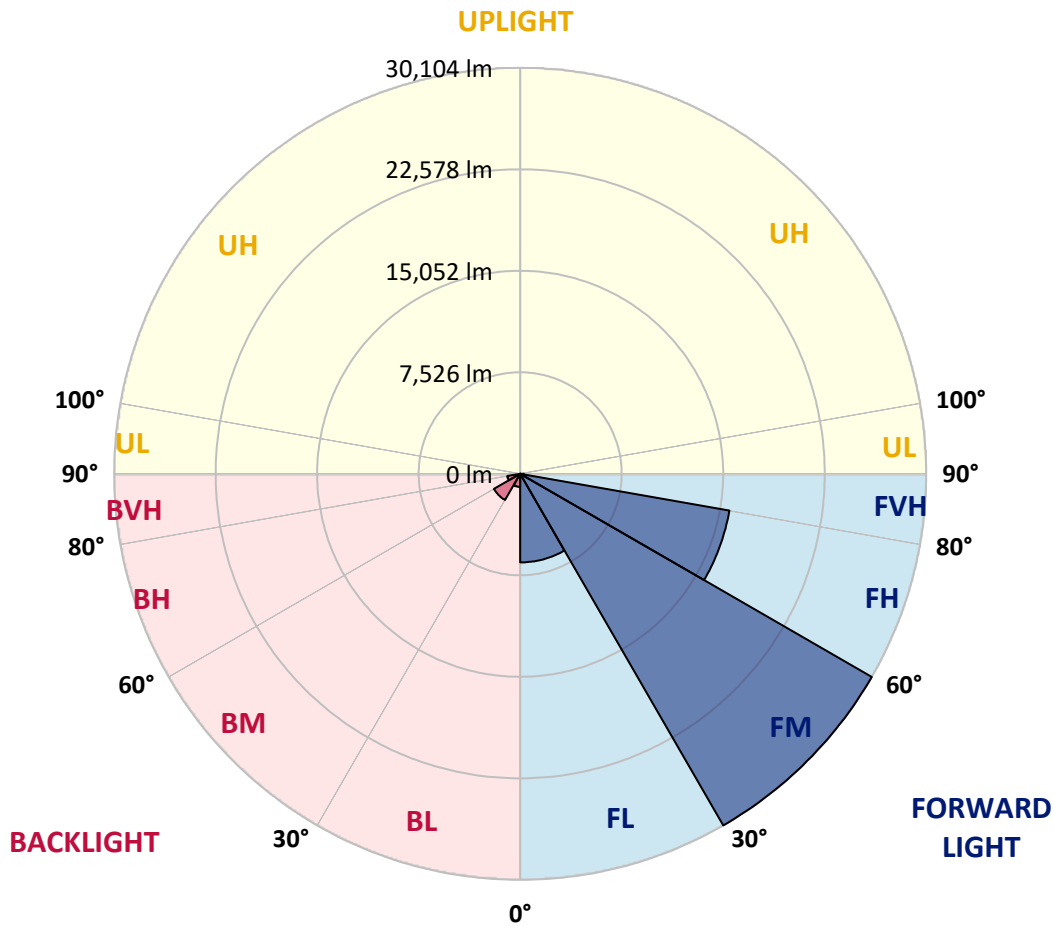


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6567.5	11.5			
FM (30°-60°)	30103.8	52.9			
FH (60°-80°)	15752.0	27.7			G5
FVH (80°-90°)	259.9	0.5			G3/500
BL (0°-30°)	968.6	1.7	B2/1000		
BM (30°-60°)	2241.7	3.9	B2/2500		
BH (60°-80°)	968.6	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6
2.5°	9078.9	9135.4	9054.2	8898.8	8665.8	8513.9	8143.1	7793.6	7405.1	7281.5
5°	11067.1	11116.5	11024.7	10855.2	10544.4	10247.8	9760.5	9029.5	8270.3	8026.6
7.5°	12539.6	12567.9	12532.5	12377.2	12080.5	11745.1	11201.2	10336.1	9209.6	8941.2
10°	13599.0	13690.8	13680.2	13620.2	13422.4	13150.5	12571.4	11586.2	10261.9	9915.9
12.5°	14301.7	14404.1	14464.2	14598.3	14587.7	14414.7	13906.2	12864.5	11310.7	10904.6
15°	14506.5	14616.0	14845.5	15156.3	15431.7	15520.0	15163.3	14118.1	12465.4	11946.3
17.5°	14390.0	14559.5	14834.9	15325.8	15929.6	16328.7	16289.8	15329.3	13514.2	12921.0
20°	14647.8	14810.2	15025.6	15438.8	16141.5	16865.4	17155.0	16487.6	14556.0	13934.5
22.5°	16074.4	16046.2	16067.4	16134.5	16554.7	17271.5	17868.3	17539.9	15587.1	14951.5
25°	18334.4	18207.3	17991.9	17628.2	17522.2	17868.3	18489.8	18472.2	16674.7	15993.2
27.5°	20926.4	20905.2	20400.2	19524.5	19030.1	18895.9	19192.5	19379.7	17751.8	17024.3
30°	23408.9	23465.4	22783.9	21809.2	20901.7	20375.5	20107.2	20241.3	18846.5	18136.7
32.5°	25570.1	25630.1	24888.5	23747.9	22625.0	21989.3	21424.3	21092.4	20040.1	19266.7
35°	27395.7	27455.8	26604.7	25344.1	24146.9	23571.3	22932.2	22024.6	21240.7	20520.3
37.5°	29027.2	29009.5	27868.9	26597.7	25421.7	24966.2	24630.7	23172.3	22476.6	21781.0
40°	29991.2	30065.4	29090.7	27688.8	26548.2	26216.3	26195.1	24595.4	23903.3	23228.8
42.5°	30273.7	30404.4	29698.1	28546.9	27512.3	27152.1	27706.5	26135.1	25563.0	24906.2
45°	29765.2	29892.3	29571.0	28772.9	28169.1	27936.0	29006.0	27731.2	27335.7	26685.9
47.5°	28282.1	28441.0	28518.7	28349.2	28342.1	28578.7	30171.3	29412.1	29440.3	28776.5
50°	25411.1	25679.5	26392.8	26993.2	27921.9	29087.2	31304.9	31234.2	31813.4	31241.3
52.5°	20191.9	20573.3	23031.1	24673.1	26760.1	28991.9	32551.4	34158.1	35976.8	35139.8
55°	16226.3	16226.3	18225.0	21297.2	24493.0	28363.3	33095.2	36058.0	38812.4	38614.6
57.5°	13228.2	13387.1	14661.9	17377.5	21212.4	26866.0	33430.7	37251.6	41097.1	40952.3
60°	8164.3	8506.9	10915.2	13595.5	17479.9	24199.9	33218.8	38459.3	43869.2	43985.7
62.5°	4597.7	4724.9	5798.4	9781.7	13591.9	20615.7	31598.0	39133.7	47414.6	47909.0
65°	3174.6	3238.2	3651.4	6087.9	9421.5	16413.4	28430.4	38713.5	50967.1	51966.4
67.5°	2305.9	2337.7	2595.5	3718.4	5590.0	11900.4	23465.4	36594.7	52849.2	54519.5
70°	1772.7	1793.9	1981.1	2443.7	3301.8	7345.1	17042.0	32381.9	51486.2	53481.4
72.5°	1440.8	1462.0	1606.7	1808.0	2189.4	4343.5	10329.0	26297.5	45468.9	47622.9
75°	1214.8	1243.0	1373.7	1504.3	1716.2	2789.7	4844.9	18313.3	34193.5	35606.0
77.5°	674.5	621.5	1115.9	1246.5	1447.8	1765.6	2267.1	10777.5	19150.2	19542.1
80°	420.2	434.3	886.4	1002.9	1112.4	889.9	1038.2	4149.3	6638.8	6306.9
82.5°	24.7	56.5	681.5	723.9	762.8	381.4	392.0	1409.0	1599.7	1469.0
85°	0.0	0.0	310.8	250.7	264.8	109.5	113.0	328.4	215.4	233.1
87.5°	0.0	0.0	0.0	7.1	0.0	10.6	21.2	28.3	10.6	14.1
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°
6557.6	0°	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6	6557.6
6893.1	2.5°	6645.9	6398.7	5897.3	5406.4	5007.4	4636.6	4371.7	4121.0	3993.9	3986.8
7338.0	5°	6847.2	6328.1	5325.2	4438.8	3725.5	3153.4	2782.7	2517.8	2383.6	2337.7
7885.4	7.5°	7129.7	6349.3	4823.7	3591.3	2750.9	2260.0	2048.1	1963.4	1935.1	1903.4
8503.3	10°	7486.3	6398.7	4375.3	2892.1	2168.2	1921.0	1836.3	1801.0	1779.8	1758.6
9199.0	12.5°	7885.4	6444.6	3930.3	2401.3	1906.9	1779.8	1719.7	1677.4	1649.1	1624.4
9912.3	15°	8273.8	6472.9	3467.7	2058.7	1772.7	1670.3	1606.7	1560.8	1522.0	1493.7
10611.5	17.5°	8658.7	6511.7	3033.4	1853.9	1663.2	1560.8	1497.3	1440.8	1409.0	1377.2
11346.0	20°	9086.0	6504.6	2623.7	1709.1	1553.8	1451.4	1384.3	1331.3	1299.5	1264.2
12122.9	22.5°	9481.5	6469.3	2263.6	1585.5	1440.8	1341.9	1267.7	1214.8	1183.0	1154.7
12917.4	25°	9937.0	6441.1	1963.4	1472.5	1334.8	1236.0	1154.7	1105.3	1070.0	1045.3
13715.5	27.5°	10374.9	6398.7	1744.5	1370.1	1232.4	1137.1	1059.4	1002.9	971.1	953.4
14538.3	30°	10805.7	6388.1	1663.2	1271.3	1140.6	1045.3	967.6	914.6	889.9	882.8
15442.3	32.5°	11324.8	6416.3	1698.5	1236.0	1055.9	960.5	886.4	847.5	822.8	822.8
16448.7	35°	11879.3	6409.3	1751.5	1267.7	999.4	875.8	819.3	794.5	769.8	769.8
17564.6	37.5°	12574.9	6419.9	1793.9	1320.7	978.2	805.1	773.4	741.6	727.4	727.4
18786.4	40°	13613.1	6769.5	1772.7	1366.6	971.1	755.7	692.1	681.5	670.9	670.9
20167.2	42.5°	14884.4	7528.7	1801.0	1370.1	967.6	720.4	635.6	656.8	632.1	628.6
21724.5	45°	16275.7	8358.6	1981.1	1296.0	964.0	702.7	607.4	632.1	593.3	593.3
23529.0	47.5°	17656.4	9181.3	2164.7	1190.0	953.4	699.2	582.7	568.5	557.9	561.5
25880.8	50°	19559.8	9852.3	2235.3	1045.3	928.7	692.1	536.8	540.3	533.2	540.3
29196.7	52.5°	21632.7	9993.5	2150.6	882.8	858.1	670.9	505.0	519.1	515.6	522.6
31530.9	55°	22925.1	9841.7	1776.2	734.5	748.6	586.2	473.2	501.4	501.4	501.4
33812.1	57.5°	24259.9	9195.5	1260.7	596.8	621.5	480.3	444.9	483.8	480.3	476.7
36559.4	60°	25220.5	8150.2	829.9	490.8	494.4	395.5	413.2	455.5	452.0	434.3
39391.5	62.5°	25937.3	6995.5	533.2	416.7	377.8	356.7	377.8	413.2	399.0	360.2
41792.8	65°	25856.1	5395.8	409.6	356.7	310.8	310.8	328.4	360.2	317.8	254.3
42251.9	67.5°	24348.2	3651.4	339.0	300.2	261.3	257.8	271.9	300.2	271.9	215.4
39900.0	70°	21653.9	2387.2	271.9	233.1	208.3	190.7	218.9	257.8	229.5	173.0
33967.5	72.5°	17575.2	1454.9	204.8	169.5	151.8	123.6	173.0	211.9	183.6	127.1
23620.8	75°	11370.7	741.6	141.3	109.5	81.2	74.2	127.1	158.9	127.1	77.7
10480.9	77.5°	4350.5	310.8	77.7	49.4	42.4	35.3	70.6	95.3	53.0	17.7
2030.5	80°	836.9	130.7	38.8	24.7	21.2	14.1	10.6	7.1	0.0	0.0
360.2	82.5°	144.8	42.4	14.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0
70.6	85°	49.4	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24.7	87.5°	17.7	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>
6557.6
3979.8
2330.6
1896.3
1751.5
1617.3
1490.2
1373.7
1260.7
1151.2
1041.7
953.4
879.3
822.8
769.8
727.4
670.9
625.0
593.3
561.5
540.3
522.6
501.4
476.7
434.3
353.1
247.2
208.3
166.0
120.1
67.1
14.1
0.0
0.0
0.0
0.0
0.0

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