

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: P957552

Luminaire Tested: **GALN-SB9D-840-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957552  
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-SB9D-840-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

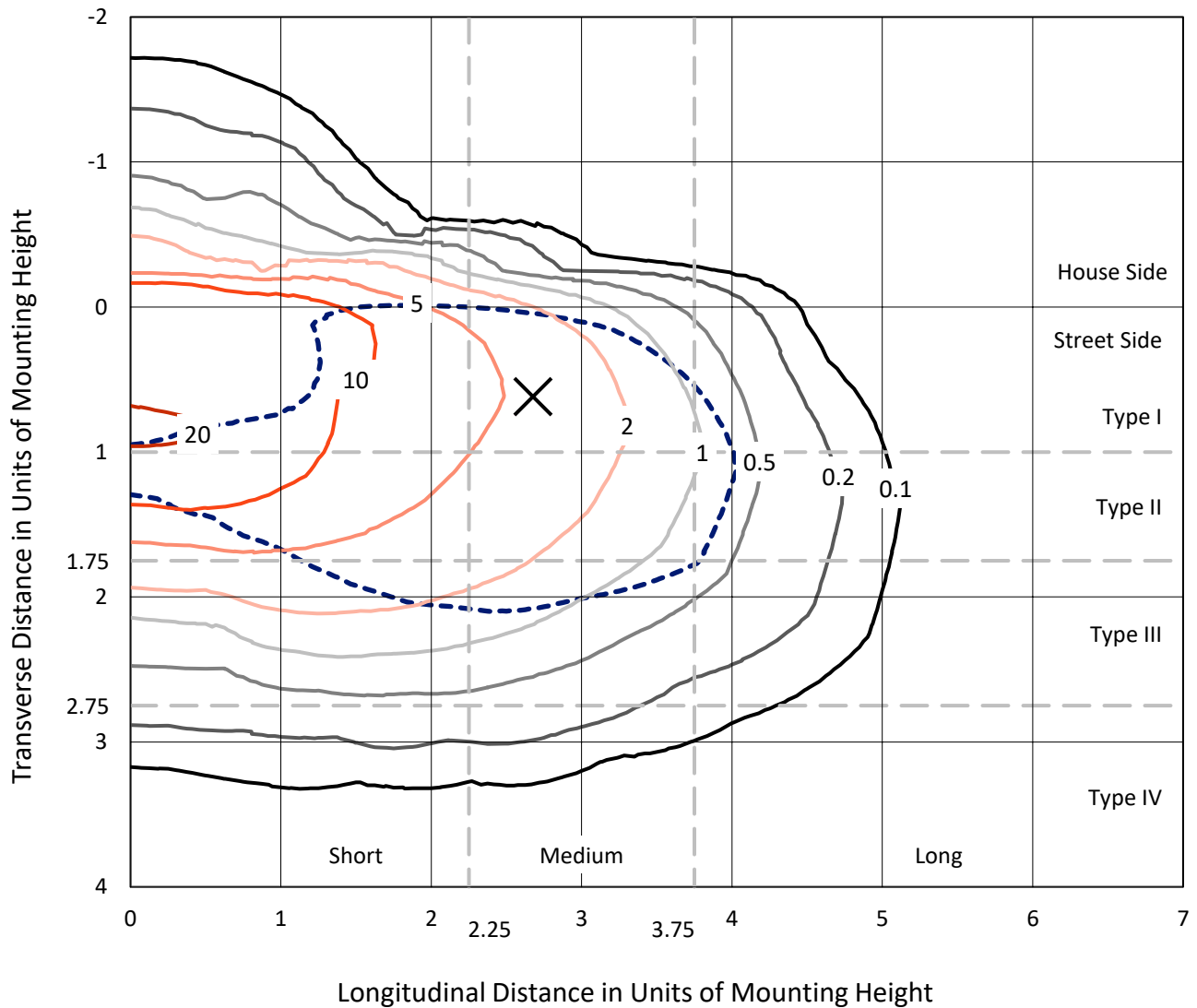
Lumens per Lamp: N/A  
Luminaire Lumens: 73811 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): 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

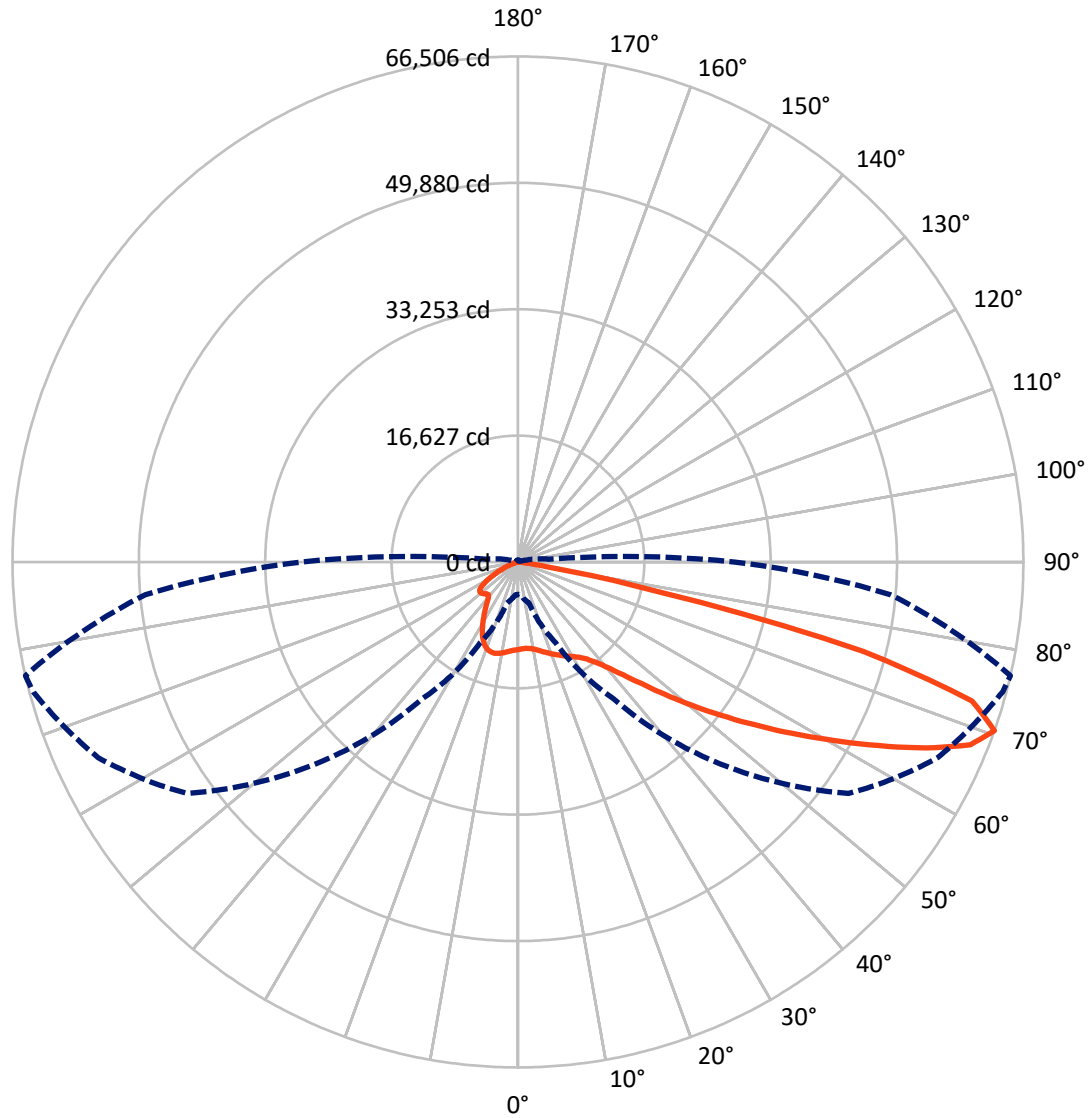
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7780.7	0.0	7780.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	66030.3	0.0	66030.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	73811.0	0.0	73811.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	992.3	1.3
10°-20°	2355.5	3.2
20°-30°	3643.3	4.9
30°-40°	6611.0	9.0
40°-50°	12479.0	16.9
50°-60°	18031.1	24.4
60°-70°	19193.6	26.0
70°-80°	10171.3	13.8
80°-90°	334.0	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°	73811.0	100.0
0°-180°	73811.0	100.0



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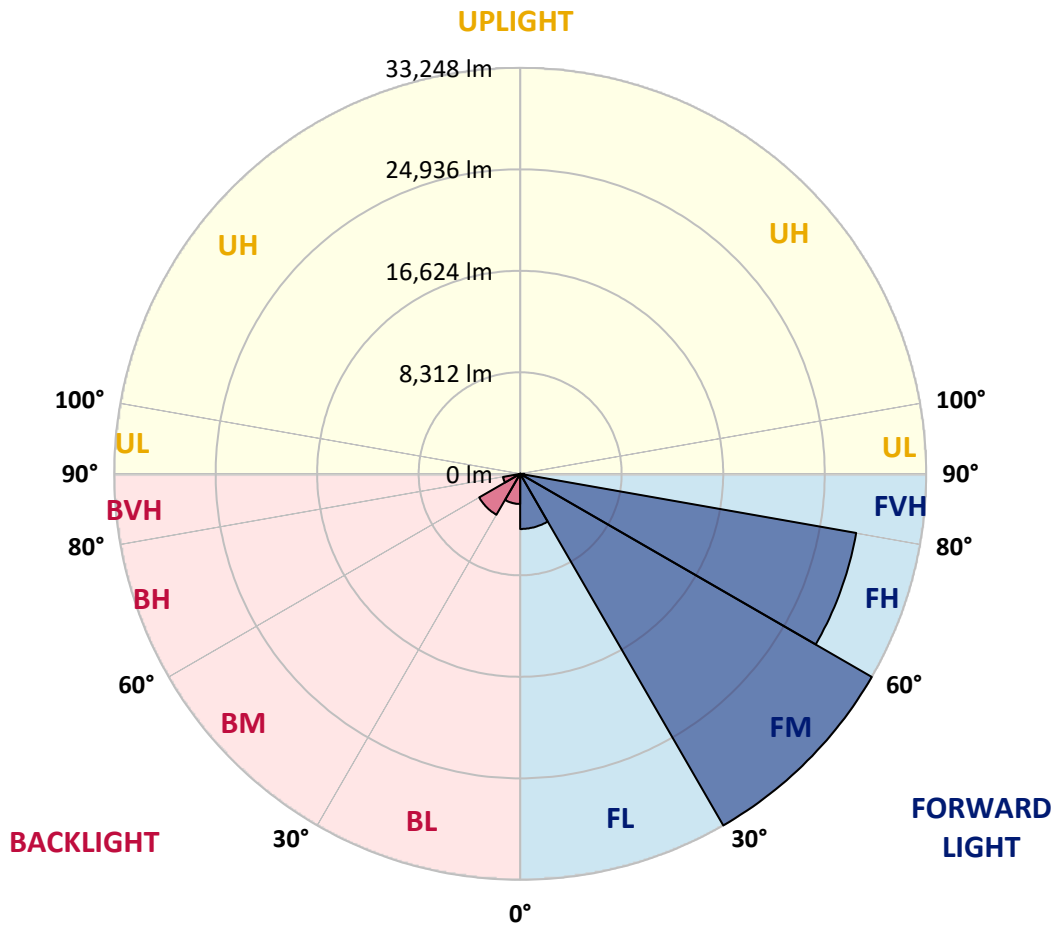
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4519.0	6.1			
FM (30°-60°)	33247.8	45.0			
FH (60°-80°)	27938.5	37.9			G5
FVH (80°-90°)	325.0	0.4			G3/500
BL (0°-30°)	2472.1	3.3	B3/2500		
BM (30°-60°)	3873.3	5.2	B3/5000		
BH (60°-80°)	1426.4	1.9	B3/2500		G3/2500
BVH (80°-90°)	9.0	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2
2.5°	10809.3	10907.2	10893.2	10958.5	10981.8	11075.0	11168.3	11294.1	11433.9	11429.3
5°	10198.7	10296.6	10319.9	10408.5	10520.3	10664.8	10856.0	11107.7	11368.7	11410.6
7.5°	9476.2	9578.8	9639.4	9816.5	10021.6	10319.9	10632.2	11000.5	11433.9	11494.5
10°	8753.7	8847.0	8926.2	9177.9	9504.2	9947.0	10455.1	10986.5	11569.1	11657.7
12.5°	8306.3	8394.8	8483.4	8702.5	9108.0	9648.7	10338.6	11051.7	11792.9	11918.7
15°	8147.8	8227.0	8296.9	8492.7	8870.3	9485.6	10315.3	11186.9	12077.2	12245.0
17.5°	8171.1	8213.0	8259.7	8408.8	8777.1	9411.0	10357.2	11420.0	12412.8	12562.0
20°	8306.3	8329.6	8334.2	8436.8	8763.1	9401.7	10441.1	11643.7	12729.8	12930.2
22.5°	8478.7	8488.1	8478.7	8548.7	8851.6	9471.6	10553.0	11914.0	13084.0	13270.5
25°	9285.1	9108.0	8884.3	8749.1	9000.8	9606.7	10720.8	12277.6	13470.9	13652.7
27.5°	11788.2	11280.1	10478.4	9578.8	9308.4	9802.5	10953.8	12645.9	13862.4	14025.6
30°	15852.8	15186.2	13825.1	11797.5	10296.6	10212.7	11256.8	13014.1	14277.3	14454.4
32.5°	19926.7	19763.5	18192.7	15386.6	12520.0	11126.3	11760.2	13512.8	14827.3	14967.1
35°	24047.2	23716.2	22429.7	19656.3	15946.0	12986.1	12599.2	14165.4	15549.8	15708.3
37.5°	27202.8	27002.4	26205.3	23921.3	20010.6	15857.4	14034.9	15176.9	16598.6	16775.7
40°	29990.2	29897.0	29626.6	28121.1	24555.2	19614.4	16267.6	16743.1	18052.9	18262.6
42.5°	32181.0	32400.1	32553.9	32134.4	29239.8	23902.7	19269.4	18943.1	20080.5	20294.9
45°	34423.0	34497.6	35117.5	35723.5	33891.6	28386.8	22653.5	21520.8	22602.2	22867.9
47.5°	35863.3	36161.6	37252.4	38319.8	37802.4	32833.5	26289.2	24564.6	25524.8	26023.5
50°	35970.5	36534.5	38035.5	39895.3	40650.4	37065.9	30241.9	28032.5	29053.3	29603.3
52.5°	34185.3	35061.6	37387.5	40109.7	42188.6	40650.4	34329.8	31500.4	32810.2	33528.1
55°	26210.0	27356.6	34949.7	38944.4	42249.2	43367.9	38310.5	35112.9	36996.0	37807.1
57.5°	22835.3	23413.2	27477.8	36921.4	41125.8	44463.3	41908.9	38552.8	41550.0	42556.8
60°	18999.1	19758.9	23045.0	33612.0	39601.6	44570.5	45087.9	42990.3	46486.2	47618.9
62.5°	12911.5	13736.6	17004.1	27925.3	37518.1	44519.2	47693.5	47558.3	51972.5	53189.0
65°	7998.6	8516.0	10669.5	22802.6	34604.8	44575.1	50420.3	53105.1	57761.7	58996.9
67.5°	6320.6	6558.3	7681.7	17507.5	29584.7	43316.6	53142.4	58321.0	63210.6	64189.5
70°	4246.4	4390.9	5588.8	11736.9	22010.2	37508.7	53091.2	60940.6	66016.7	66506.1
72.5°	2237.4	2349.2	3267.5	5435.0	13293.8	26662.1	44752.3	57808.3	63224.6	62488.1
75°	1118.7	1305.1	2200.1	2759.4	5677.4	14869.3	27790.1	45577.3	49763.1	46910.4
77.5°	848.3	1025.5	1817.9	1817.9	1976.4	5006.1	11769.5	24858.2	22928.5	19092.3
80°	540.7	699.2	1589.5	1375.1	825.0	1272.5	3067.1	6963.8	4871.0	3705.7
82.5°	317.0	456.8	1323.8	908.9	461.5	470.8	867.0	1482.3	1263.2	983.5
85°	125.9	298.3	908.9	358.9	181.8	116.5	261.0	317.0	261.0	195.8
87.5°	0.0	69.9	158.5	0.0	14.0	9.3	18.6	23.3	23.3	18.6
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°
11513.2	0°	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2	11513.2
11522.5	2.5°	11564.5	11573.8	11601.7	11606.4	11541.2	11457.2	11424.6	11410.6	11354.7	11350.0
11597.1	5°	11704.3	11746.2	11704.3	11583.1	11294.1	10888.6	10580.9	10329.2	10100.8	10030.9
11853.5	7.5°	11984.0	12025.9	11900.1	11424.6	10697.5	9891.1	9163.9	8651.2	8189.7	8017.3
12165.8	10°	12384.8	12440.8	12044.6	11084.4	9797.9	8502.0	7271.5	6404.5	5728.6	5453.6
12589.9	12.5°	12888.2	12911.5	12123.8	10567.0	8627.9	6777.4	5034.1	4106.5	3505.2	3281.5
13102.7	15°	13442.9	13410.3	12133.1	9863.1	7033.8	4791.7	3286.2	2698.8	2456.5	2381.9
13615.4	17.5°	14025.6	13890.4	11946.7	8847.0	5285.8	3276.8	2437.8	2298.0	2256.0	2237.4
14123.5	20°	14598.9	14295.9	11606.4	7518.5	3794.2	2447.1	2214.1	2172.1	2148.8	2139.5
14636.2	22.5°	15121.0	14603.6	11023.8	5975.7	2754.8	2162.8	2092.9	2055.6	2013.6	1995.0
15134.9	25°	15629.0	14780.7	10203.4	4535.4	2204.8	2023.0	1967.0	1897.1	1841.2	1817.9
15671.0	27.5°	16123.1	14892.6	9177.9	3356.1	1967.0	1892.5	1789.9	1692.0	1650.1	1640.7
16244.3	30°	16649.8	14929.8	8012.6	2503.1	1822.5	1729.3	1580.1	1468.3	1445.0	1449.6
17018.1	32.5°	17293.1	14985.8	6838.0	2050.9	1701.3	1533.5	1356.4	1239.9	1221.2	1239.9
18146.1	35°	18062.2	15097.7	5705.3	1887.8	1594.1	1333.1	1142.0	1044.1	1025.5	1039.4
19591.1	37.5°	19106.3	15279.4	4647.2	1855.2	1505.6	1165.3	960.2	881.0	881.0	885.6
21362.3	40°	20495.3	15764.2	3701.0	1831.9	1459.0	1039.4	811.1	778.4	792.4	801.7
23618.3	42.5°	22187.3	16794.3	3062.4	1803.9	1407.7	983.5	736.5	722.5	745.8	755.1
26321.8	45°	24084.5	18099.5	2838.7	1757.3	1361.1	1020.8	703.8	685.2	713.2	717.8
29351.6	47.5°	26046.8	19376.6	2810.7	1706.0	1314.5	1076.7	694.5	652.6	685.2	689.9
32586.5	50°	28032.5	20211.0	2838.7	1626.8	1239.9	1076.7	699.2	619.9	647.9	661.9
35942.6	52.5°	30032.2	20593.2	2820.0	1454.3	1109.4	1011.5	699.2	592.0	619.9	629.3
39569.0	55°	31971.2	20518.6	2535.7	1197.9	941.6	895.0	680.5	568.7	587.3	592.0
42995.0	57.5°	33504.8	19479.2	2009.0	932.2	764.4	745.8	619.9	540.7	554.7	550.0
46136.6	60°	34306.5	17195.2	1435.7	717.8	601.3	587.3	545.4	503.4	512.7	489.4
48798.2	62.5°	34315.8	14174.7	960.2	568.7	480.1	466.1	466.1	452.1	442.8	396.2
50858.4	65°	33584.0	10823.3	638.6	452.1	386.9	363.6	391.5	386.9	354.3	289.0
51487.7	67.5°	31924.6	7094.4	484.8	354.3	298.3	284.3	312.3	326.3	303.0	242.4
49194.4	70°	28512.6	4129.8	400.9	275.0	223.7	209.8	251.7	279.7	251.7	195.8
42048.8	72.5°	23683.6	2228.1	326.3	205.1	153.8	139.8	200.4	228.4	200.4	144.5
26979.1	75°	15368.0	1193.3	251.7	135.2	79.2	88.6	149.2	167.8	139.8	93.2
7919.4	77.5°	5160.0	526.7	158.5	65.3	37.3	37.3	88.6	102.5	65.3	32.6
1440.3	80°	1151.3	219.1	65.3	28.0	14.0	14.0	18.6	18.6	9.3	0.0
442.8	82.5°	377.6	88.6	28.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0
111.9	85°	144.5	32.6	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.3	87.5°	55.9	4.7	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

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180°
11513.2
11359.4
9989.0
7947.4
5337.1
3211.6
2381.9
2232.7
2130.2
1990.3
1808.5
1631.4
1449.6
1235.2
1034.8
881.0
801.7
755.1
722.5
694.5
666.6
629.3
592.0
550.0
484.8
382.2
279.7
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139.8
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