

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: P955977

Luminaire Tested: **GALN-SB8D-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955977
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-SB8D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 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: 68506 lumens
Efficiency: N/A
Efficacy: 117.1 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

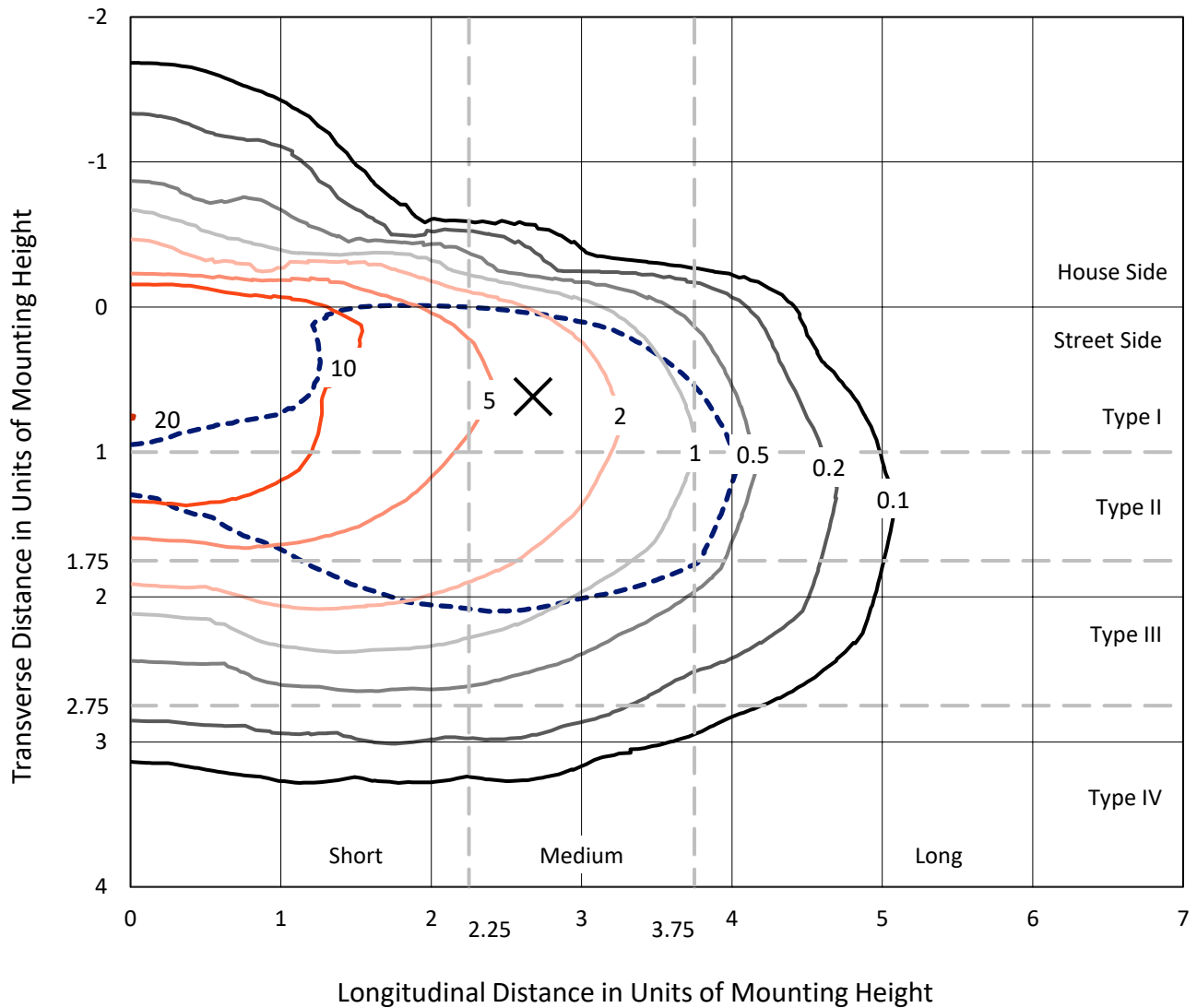
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

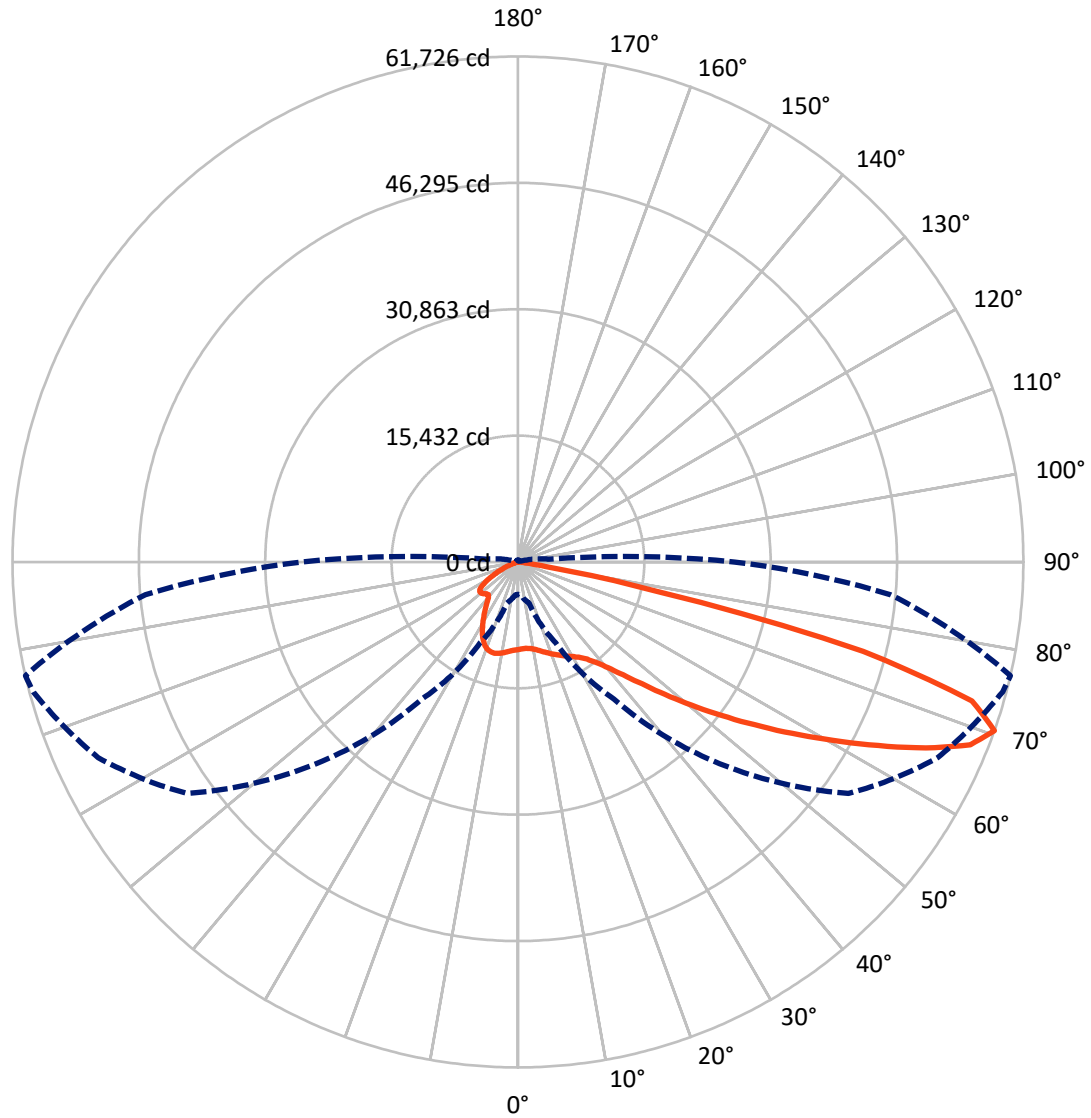
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 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
House Side	Lumens	7221.5	0.0	7221.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	61284.5	0.0	61284.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	68506.0	0.0	68506.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.9	1.3
10°-20°	2186.2	3.2
20°-30°	3381.4	4.9
30°-40°	6135.8	9.0
40°-50°	11582.1	16.9
50°-60°	16735.2	24.4
60°-70°	17814.1	26.0
70°-80°	9440.3	13.8
80°-90°	310.0	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°	68506.0	100.0
0°-180°	68506.0	100.0

Coefficient of Utilization



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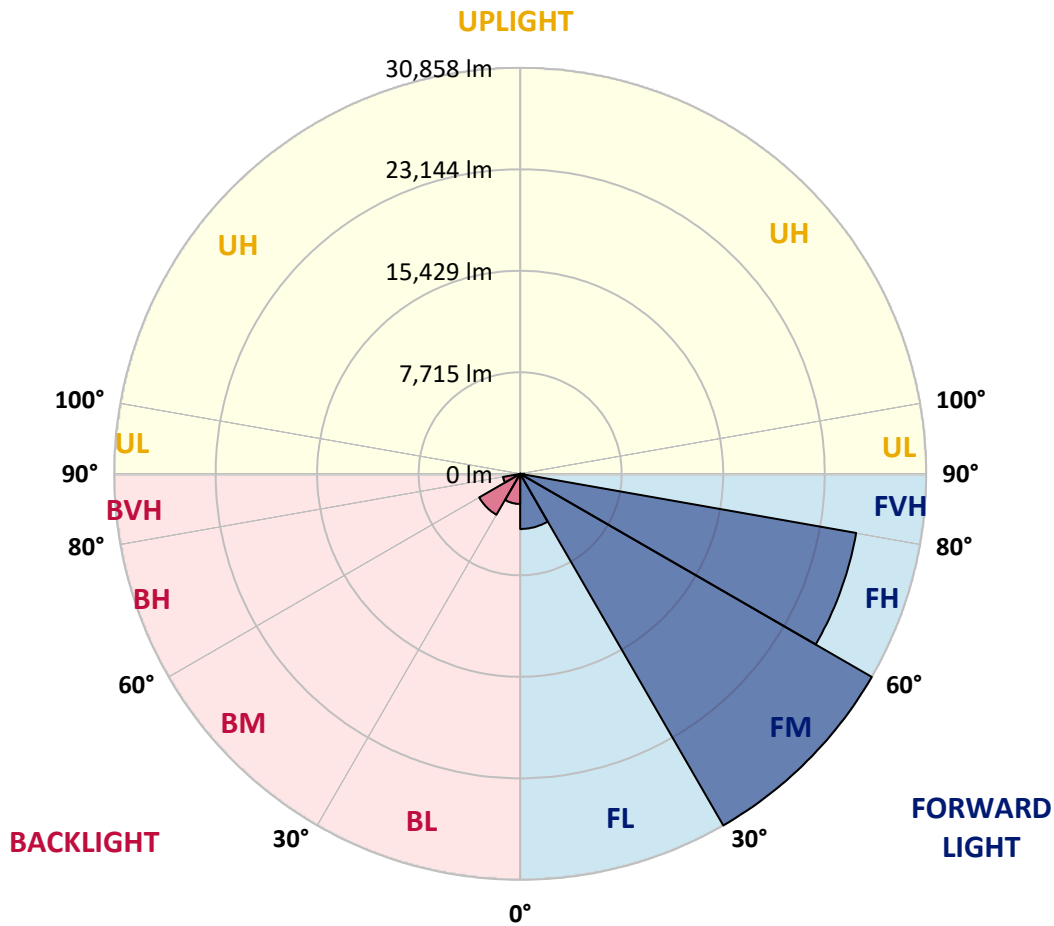
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4194.2	6.1			
FM (30°-60°)	30858.2	45.0			
FH (60°-80°)	25930.5	37.9			G5
FVH (80°-90°)	301.6	0.4			G3/500
BL (0°-30°)	2294.4	3.3	B3/2500		
BM (30°-60°)	3594.9	5.2	B3/5000		
BH (60°-80°)	1323.9	1.9	B3/2500		G3/2500
BVH (80°-90°)	8.3	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°	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7
2.5°	10032.4	10123.3	10110.3	10170.9	10192.5	10279.0	10365.6	10482.4	10612.2	10607.8
5°	9465.7	9556.6	9578.2	9660.4	9764.2	9898.3	10075.7	10309.3	10551.6	10590.5
7.5°	8795.2	8890.3	8946.6	9111.0	9301.3	9578.2	9868.0	10209.8	10612.2	10668.4
10°	8124.6	8211.1	8284.7	8518.3	8821.1	9232.1	9703.7	10196.8	10737.6	10819.8
12.5°	7709.3	7791.5	7873.7	8077.0	8453.4	8955.2	9595.5	10257.4	10945.3	11062.1
15°	7562.2	7635.7	7700.6	7882.3	8232.7	8803.8	9573.9	10382.9	11209.2	11364.9
17.5°	7583.8	7622.8	7666.0	7804.5	8146.2	8734.6	9612.8	10599.2	11520.7	11659.1
20°	7709.3	7730.9	7735.2	7830.4	8133.2	8725.9	9690.7	10806.8	11814.8	12000.9
22.5°	7869.3	7878.0	7869.3	7934.2	8215.4	8790.8	9794.5	11057.8	12143.6	12316.7
25°	8617.8	8453.4	8245.7	8120.3	8353.9	8916.3	9950.2	11395.2	12502.7	12671.4
27.5°	10940.9	10469.4	9725.3	8890.3	8639.4	9098.0	10166.6	11737.0	12866.1	13017.5
30°	14713.4	14094.7	12831.5	10949.6	9556.6	9478.7	10447.8	12078.7	13251.1	13415.5
32.5°	18494.5	18343.1	16885.1	14280.8	11620.2	10326.6	10915.0	12541.6	13761.6	13891.4
35°	22318.8	22011.7	20817.6	18243.6	14799.9	12052.8	11693.7	13147.3	14432.2	14579.3
37.5°	25247.7	25061.6	24321.9	22202.0	18572.4	14717.7	13026.2	14086.1	15405.6	15570.0
40°	27834.7	27748.2	27497.3	26099.9	22790.4	18204.6	15098.4	15539.7	16755.3	16950.0
42.5°	29868.0	30071.4	30214.1	29824.8	27138.2	22184.7	17884.5	17581.7	18637.2	18836.2
45°	31948.9	32018.2	32593.5	33155.9	31455.8	26346.5	21025.3	19974.0	20977.7	21224.3
47.5°	33285.7	33562.6	34574.9	35565.6	35085.4	30473.7	24399.7	22799.0	23690.2	24153.1
50°	33385.2	33908.7	35301.7	37027.9	37728.7	34401.9	28068.3	26017.7	26965.2	27475.7
52.5°	31728.3	32541.6	34700.4	37226.9	39156.4	37728.7	31862.4	29236.4	30452.1	31118.3
55°	24326.2	25390.4	32437.8	36145.3	39212.6	40250.9	35557.0	32589.2	34337.0	35089.8
57.5°	21194.0	21730.5	25502.9	34267.8	38170.0	41267.6	38896.8	35781.9	38563.7	39498.1
60°	17633.6	18338.7	21388.7	31196.2	36755.3	41367.1	41847.3	39900.5	43145.1	44196.4
62.5°	11983.6	12749.3	15782.0	25918.2	34821.5	41319.5	44265.6	44140.2	48237.1	49366.2
65°	7423.7	7904.0	9902.7	21163.7	32117.7	41371.4	46796.4	49288.3	53610.2	54756.6
67.5°	5866.3	6087.0	7129.6	16249.2	27458.4	40203.3	49322.9	54129.3	58667.5	59576.0
70°	3941.2	4075.3	5187.1	10893.4	20428.3	34812.9	49275.3	56560.7	61271.9	61726.1
72.5°	2076.6	2180.4	3032.7	5044.3	12338.3	24745.8	41535.8	53653.5	58680.5	57997.0
75°	1038.3	1211.3	2042.0	2561.1	5269.3	13800.6	25792.8	42301.5	46186.4	43538.8
77.5°	787.4	951.8	1687.2	1687.2	1834.3	4646.3	10923.6	23071.6	21280.5	17720.1
80°	501.8	648.9	1475.2	1276.2	765.7	1181.1	2846.6	6463.3	4520.9	3439.3
82.5°	294.2	424.0	1228.6	843.6	428.3	436.9	804.7	1375.7	1172.4	912.8
85°	116.8	276.9	843.6	333.1	168.7	108.2	242.3	294.2	242.3	181.7
87.5°	0.0	64.9	147.1	0.0	13.0	8.7	17.3	21.6	21.6	17.3
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°
10685.7	0°	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7	10685.7
10694.4	2.5°	10733.3	10741.9	10767.9	10772.2	10711.7	10633.8	10603.5	10590.5	10538.6	10534.3
10763.6	5°	10863.1	10902.0	10863.1	10750.6	10482.4	10106.0	9820.5	9586.8	9374.9	9310.0
11001.5	7.5°	11122.6	11161.6	11044.8	10603.5	9928.6	9180.2	8505.3	8029.4	7601.1	7441.1
11291.4	10°	11494.7	11546.6	11178.9	10287.7	9093.7	7891.0	6748.9	5944.2	5316.9	5061.6
11685.0	12.5°	11961.9	11983.6	11252.4	9807.5	8007.8	6290.3	4672.3	3811.4	3253.3	3045.6
12160.9	15°	12476.7	12446.5	11261.1	9154.2	6528.2	4447.3	3050.0	2504.9	2279.9	2210.7
12636.8	17.5°	13017.5	12892.1	11088.0	8211.1	4905.9	3041.3	2262.6	2132.8	2093.9	2076.6
13108.4	20°	13549.6	13268.4	10772.2	6978.2	3521.5	2271.3	2054.9	2016.0	1994.4	1985.7
13584.2	22.5°	14034.2	13554.0	10231.4	5546.2	2556.8	2007.4	1942.5	1907.9	1868.9	1851.6
14047.2	25°	14505.7	13718.4	9470.0	4209.4	2046.3	1877.6	1825.7	1760.8	1708.8	1687.2
14544.7	27.5°	14964.3	13822.2	8518.3	3114.9	1825.7	1756.4	1661.3	1570.4	1531.5	1522.8
15076.8	30°	15453.2	13856.8	7436.7	2323.2	1691.5	1605.0	1466.6	1362.8	1341.1	1345.4
15794.9	32.5°	16050.2	13908.7	6346.5	1903.5	1579.1	1423.3	1258.9	1150.8	1133.5	1150.8
16841.9	35°	16764.0	14012.5	5295.3	1752.1	1479.6	1237.3	1059.9	969.1	951.8	964.7
18183.0	37.5°	17733.1	14181.3	4313.2	1721.8	1397.4	1081.5	891.2	817.7	817.7	822.0
19826.9	40°	19022.3	14631.2	3435.0	1700.2	1354.1	964.7	752.8	722.5	735.5	744.1
21920.8	42.5°	20592.7	15587.3	2842.3	1674.2	1306.5	912.8	683.5	670.6	692.2	700.8
24430.0	45°	22353.4	16798.6	2634.7	1631.0	1263.2	947.4	653.3	636.0	661.9	666.2
27242.0	47.5°	24174.8	17984.0	2608.7	1583.4	1220.0	999.4	644.6	605.7	636.0	640.3
30244.4	50°	26017.7	18758.4	2634.7	1509.8	1150.8	999.4	648.9	575.4	601.3	614.3
33359.3	52.5°	27873.7	19113.1	2617.3	1349.8	1029.6	938.8	648.9	549.4	575.4	584.0
36725.1	55°	29673.4	19043.9	2353.4	1111.8	873.9	830.6	631.6	527.8	545.1	549.4
39904.8	57.5°	31096.7	18079.2	1864.6	865.2	709.5	692.2	575.4	501.8	514.8	510.5
42820.7	60°	31840.8	15959.3	1332.5	666.2	558.1	545.1	506.2	467.2	475.9	454.3
45290.9	62.5°	31849.4	13156.0	891.2	527.8	445.6	432.6	432.6	419.6	411.0	367.7
47203.1	65°	31170.2	10045.4	592.7	419.6	359.1	337.4	363.4	359.1	328.8	268.2
47787.1	67.5°	29630.1	6584.5	449.9	328.8	276.9	263.9	289.9	302.8	281.2	225.0
45658.6	70°	26463.3	3833.0	372.1	255.2	207.7	194.7	233.6	259.6	233.6	181.7
39026.6	72.5°	21981.4	2067.9	302.8	190.4	142.8	129.8	186.0	212.0	186.0	134.1
25040.0	75°	14263.5	1107.5	233.6	125.5	73.5	82.2	138.4	155.7	129.8	86.5
7350.2	77.5°	4789.1	488.9	147.1	60.6	34.6	34.6	82.2	95.2	60.6	30.3
1336.8	80°	1068.6	203.3	60.6	26.0	13.0	13.0	17.3	17.3	8.7	0.0
411.0	82.5°	350.4	82.2	26.0	8.7	0.0	0.0	0.0	0.0	0.0	0.0
103.8	85°	134.1	30.3	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34.6	87.5°	51.9	4.3	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°
10685.7
10542.9
9271.0
7376.2
4953.5
2980.7
2210.7
2072.2
1977.1
1847.3
1678.6
1514.2
1345.4
1146.4
960.4
817.7
744.1
700.8
670.6
644.6
618.6
584.0
549.4
510.5
449.9
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