

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: P957401

Luminaire Tested: **GALN-SB9D-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957401
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-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 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: 78476 lumens
Efficiency: N/A
Efficacy: 119.3 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

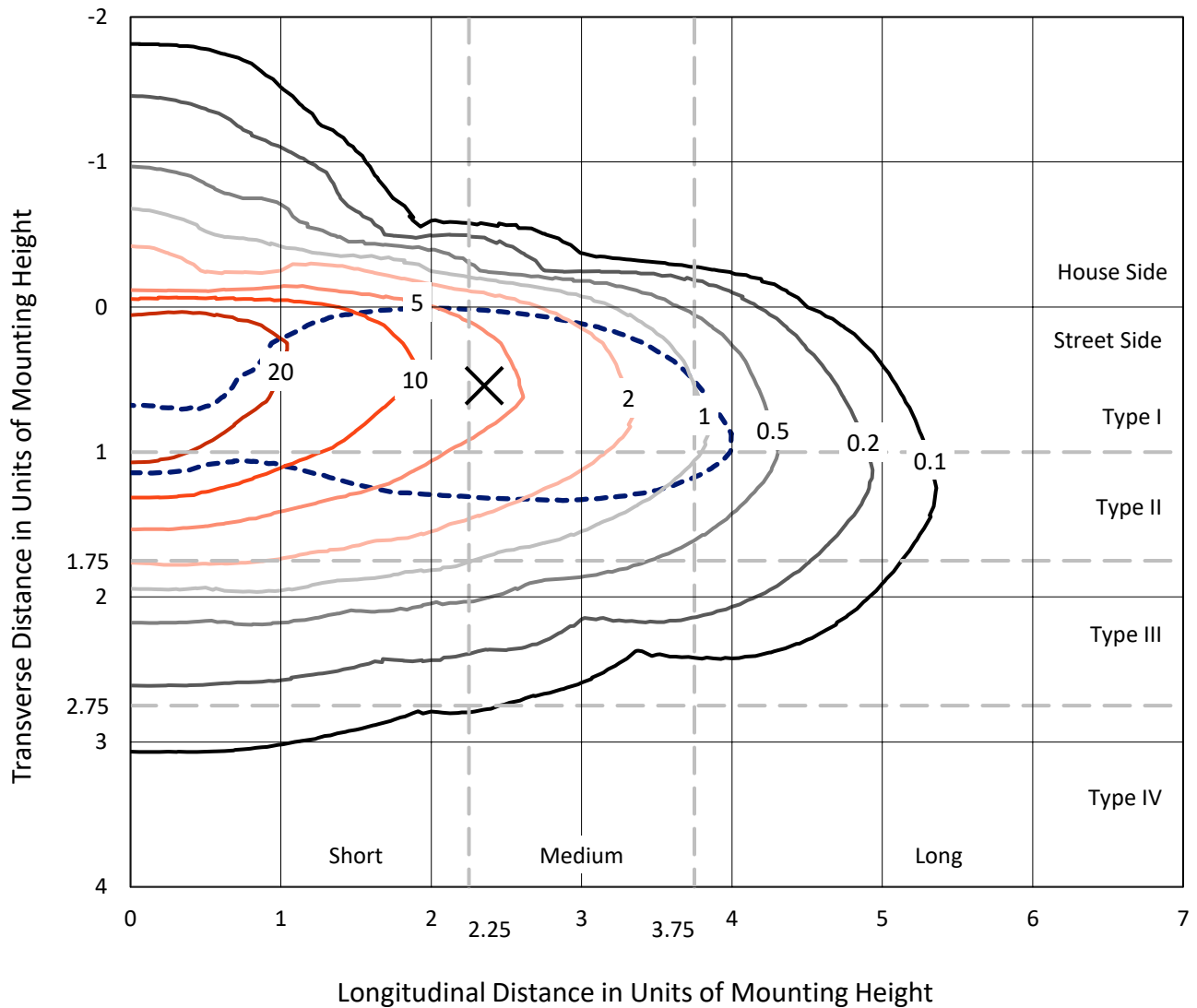
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

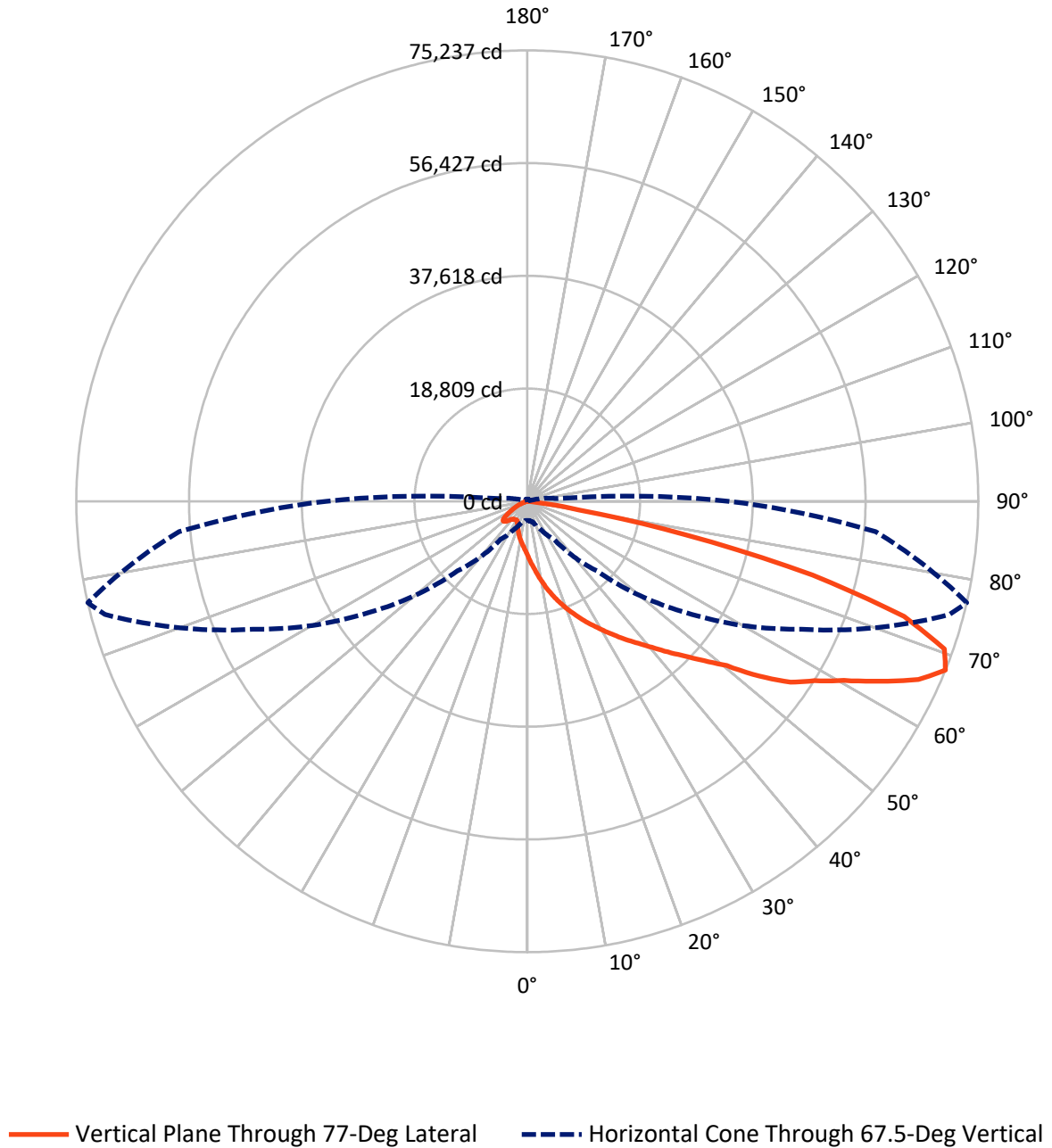
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.9 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	5773.5	0.0	5773.5
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	72702.5	0.0	72702.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	78476.0	0.0	78476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.6	1.2
10°-20°	3234.5	4.1
20°-30°	6241.7	8.0
30°-40°	10835.9	13.8
40°-50°	15733.1	20.0
50°-60°	18067.5	23.0
60°-70°	15686.0	20.0
70°-80°	7388.3	9.4
80°-90°	365.4	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°	78476.0	100.0
0°-180°	78476.0	100.0

Coefficient of Utilization



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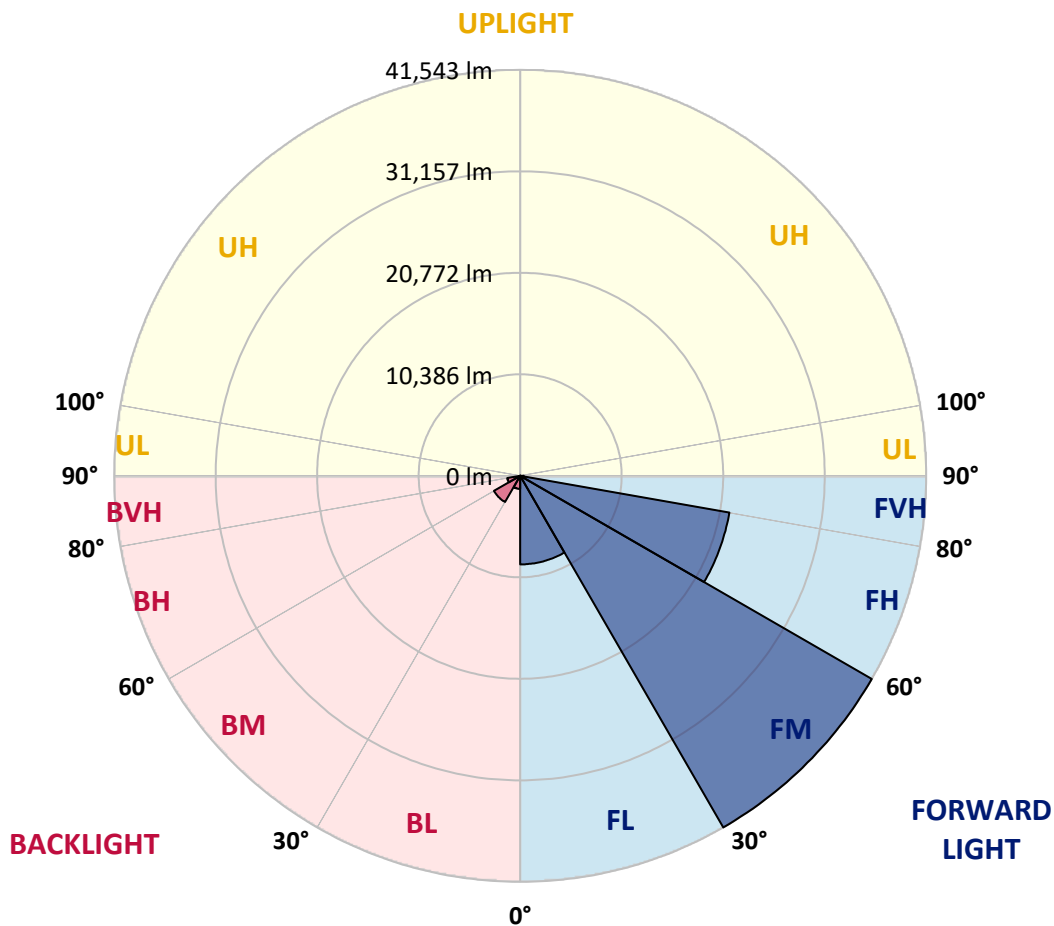
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9063.1	11.5			
FM (30°-60°)	41543.1	52.9			
FH (60°-80°)	21737.6	27.7			G5
FVH (80°-90°)	358.7	0.5			G3/500
BL (0°-30°)	1336.7	1.7	B3/2500		
BM (30°-60°)	3093.5	3.9	B3/5000		
BH (60°-80°)	1336.6	1.7	B3/2500		G3/2500
BVH (80°-90°)	6.7	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°	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4
2.5°	12528.9	12606.8	12494.8	12280.3	11958.7	11749.2	11237.5	10755.0	10219.0	10048.4
5°	15272.4	15340.7	15214.0	14980.1	14551.2	14141.9	13469.4	12460.6	11412.9	11076.7
7.5°	17304.5	17343.5	17294.8	17080.4	16671.0	16208.1	15457.6	14263.7	12709.2	12338.8
10°	18766.5	18893.2	18878.6	18795.7	18522.8	18147.6	17348.4	15988.8	14161.4	13683.8
12.5°	19736.3	19877.6	19960.4	20145.6	20131.0	19892.2	19190.5	17752.9	15608.7	15048.3
15°	20018.9	20170.0	20486.7	20915.6	21295.7	21417.5	20925.3	19482.8	17202.2	16485.9
17.5°	19858.1	20092.0	20472.1	21149.5	21982.8	22533.4	22479.8	21154.3	18649.5	17830.8
20°	20213.8	20438.0	20735.2	21305.4	22275.2	23274.2	23673.8	22752.7	20087.1	19229.4
22.5°	22182.6	22143.6	22172.8	22265.4	22845.3	23834.6	24658.1	24204.9	21510.1	20632.9
25°	25301.4	25126.0	24828.7	24326.8	24180.6	24658.1	25515.8	25491.4	23011.0	22070.5
27.5°	28878.3	28849.0	28152.2	26943.6	26261.4	26076.2	26485.6	26743.8	24497.3	23493.4
30°	32304.1	32382.1	31441.6	30096.6	28844.2	28118.1	27747.7	27932.9	26008.0	25028.5
32.5°	35286.5	35369.3	34345.9	32771.9	31222.3	30345.1	29565.4	29107.3	27655.1	26587.9
35°	37805.9	37888.7	36714.3	34974.6	33322.6	32528.3	31646.2	30393.8	29312.0	28317.9
37.5°	40057.3	40032.9	38458.9	36704.6	35081.8	34453.2	33990.2	31977.6	31017.6	30057.6
40°	41387.6	41490.0	40145.0	38210.4	36636.3	36178.3	36149.0	33941.5	32986.3	32055.6
42.5°	41777.5	41957.8	40983.2	39394.5	37966.7	37469.6	38234.7	36066.2	35276.7	34370.3
45°	41075.8	41251.2	40807.7	39706.4	38873.1	38551.5	40028.0	38268.8	37723.0	36826.4
47.5°	39029.0	39248.3	39355.5	39121.6	39111.9	39438.4	41636.2	40588.5	40627.4	39711.3
50°	35067.2	35437.5	36421.9	37250.3	38532.0	40140.1	43200.5	43103.0	43902.2	43112.7
52.5°	27864.7	28391.0	31782.7	34048.7	36928.7	40008.5	44920.7	47138.0	49647.6	48492.7
55°	22392.1	22392.1	25150.3	29390.0	33800.2	39141.1	45671.1	49759.7	53560.8	53287.9
57.5°	18254.8	18474.1	20233.3	23980.8	29273.0	37074.9	46134.1	51406.8	56713.7	56513.9
60°	11266.7	11739.4	15062.9	18761.6	24122.1	33395.7	45841.7	53073.5	60539.1	60699.9
62.5°	6344.8	6520.3	8001.7	13498.6	18756.7	28449.4	43604.9	54004.2	65431.8	66114.0
65°	4381.0	4468.7	5038.8	8401.3	13001.6	22650.4	39233.7	53424.3	70334.1	71713.3
67.5°	3182.2	3226.0	3581.8	5131.4	7714.2	16422.5	32382.1	50500.4	72931.5	75236.5
70°	2446.3	2475.6	2733.8	3372.2	4556.4	10136.1	23517.8	44686.8	71050.5	73803.8
72.5°	1988.2	2017.5	2217.3	2495.1	3021.4	5994.0	14254.0	36290.3	62746.7	65719.3
75°	1676.4	1715.3	1895.7	2076.0	2368.4	3849.8	6686.0	25272.1	47186.7	49136.0
77.5°	930.8	857.7	1539.9	1720.2	1998.0	2436.6	3128.6	14872.8	26427.1	26968.0
80°	579.9	599.4	1223.2	1384.0	1535.0	1228.0	1432.7	5725.9	9161.5	8703.4
82.5°	34.1	78.0	940.5	999.0	1052.6	526.3	540.9	1944.4	2207.5	2027.2
85°	0.0	0.0	428.8	346.0	365.5	151.1	155.9	453.2	297.3	321.6
87.5°	0.0	0.0	0.0	9.7	0.0	14.6	29.2	39.0	14.6	19.5
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°
9049.4	0°	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4	9049.4
9512.4	2.5°	9171.3	8830.1	8138.2	7460.8	6910.1	6398.4	6033.0	5687.0	5511.5	5501.8
10126.4	5°	9449.0	8732.7	7348.7	6125.5	5141.2	4351.7	3840.0	3474.6	3289.4	3226.0
10881.7	7.5°	9838.9	8761.9	6656.7	4956.0	3796.2	3118.8	2826.4	2709.5	2670.5	2626.6
11734.5	10°	10331.1	8830.1	6037.8	3991.1	2992.1	2651.0	2534.0	2485.3	2456.1	2426.8
12694.6	12.5°	10881.7	8893.5	5423.8	3313.7	2631.5	2456.1	2373.2	2314.7	2275.8	2241.6
13678.9	15°	11417.8	8932.5	4785.4	2841.0	2446.3	2305.0	2217.3	2153.9	2100.3	2061.3
14643.8	17.5°	11949.0	8986.1	4186.0	2558.4	2295.3	2153.9	2066.2	1988.2	1944.4	1900.5
15657.4	20°	12538.6	8976.3	3620.7	2358.6	2144.2	2002.9	1910.3	1837.2	1793.3	1744.6
16729.5	22.5°	13084.4	8927.6	3123.7	2188.0	1988.2	1851.8	1749.5	1676.4	1632.5	1593.5
17826.0	25°	13713.0	8888.6	2709.5	2032.1	1842.1	1705.6	1593.5	1525.3	1476.6	1442.5
18927.3	27.5°	14317.3	8830.1	2407.3	1890.8	1700.7	1569.2	1461.9	1384.0	1340.1	1315.8
20062.8	30°	14911.8	8815.5	2295.3	1754.3	1574.0	1442.5	1335.2	1262.1	1228.0	1218.3
21310.3	32.5°	15628.2	8854.5	2344.0	1705.6	1457.1	1325.5	1223.2	1169.6	1135.4	1135.4
22699.1	35°	16393.3	8844.8	2417.1	1749.5	1379.1	1208.5	1130.6	1096.5	1062.3	1062.3
24239.0	37.5°	17353.3	8859.4	2475.6	1822.6	1349.9	1111.1	1067.2	1023.4	1003.9	1003.9
25925.1	40°	18786.0	9341.8	2446.3	1885.9	1340.1	1042.9	955.1	940.5	925.9	925.9
27830.5	42.5°	20540.3	10389.6	2485.3	1890.8	1335.2	994.1	877.2	906.4	872.3	867.4
29979.6	45°	22460.3	11534.7	2733.8	1788.4	1330.4	969.8	838.2	872.3	818.7	818.7
32469.8	47.5°	24365.7	12670.2	2987.2	1642.3	1315.8	964.9	804.1	784.6	770.0	774.8
35715.3	50°	26992.4	13596.1	3084.7	1442.5	1281.6	955.1	740.7	745.6	735.8	745.6
40291.2	52.5°	29852.9	13791.0	2967.7	1218.3	1184.2	925.9	696.9	716.4	711.5	721.2
43512.3	55°	31636.5	13581.5	2451.2	1013.6	1033.1	808.9	653.0	692.0	692.0	692.0
46660.4	57.5°	33478.5	12689.7	1739.7	823.6	857.7	662.7	614.0	667.6	662.7	657.9
50451.7	60°	34804.0	11247.2	1145.2	677.4	682.2	545.8	570.2	628.6	623.8	599.4
54360.0	62.5°	35793.3	9653.7	735.8	575.0	521.4	492.2	521.4	570.2	550.7	497.1
57673.7	65°	35681.2	7446.2	565.3	492.2	428.8	428.8	453.2	497.1	438.6	350.9
58307.2	67.5°	33600.4	5038.8	467.8	414.2	360.6	355.7	375.2	414.2	375.2	297.3
55061.7	70°	29882.1	3294.2	375.2	321.6	287.5	263.2	302.1	355.7	316.8	238.8
46874.8	72.5°	24253.7	2007.7	282.6	233.9	209.5	170.6	238.8	292.4	253.4	175.4
32596.5	75°	15691.5	1023.4	194.9	151.1	112.1	102.3	175.4	219.3	175.4	107.2
14463.5	77.5°	6003.7	428.8	107.2	68.2	58.5	48.7	97.5	131.6	73.1	24.4
2802.1	80°	1154.9	180.3	53.6	34.1	29.2	19.5	14.6	9.7	0.0	0.0
497.1	82.5°	199.8	58.5	19.5	9.7	0.0	0.0	0.0	0.0	0.0	0.0
97.5	85°	68.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34.1	87.5°	24.4	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

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180°
9049.4
5492.0
3216.3
2616.9
2417.1
2231.9
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1895.7
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1437.6
1315.8
1213.4
1135.4
1062.3
1003.9
925.9
862.5
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774.8
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721.2
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657.9
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