

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: P957174

Luminaire Tested: **GALN-SB9C-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957174
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-SB9C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA 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: 52675 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

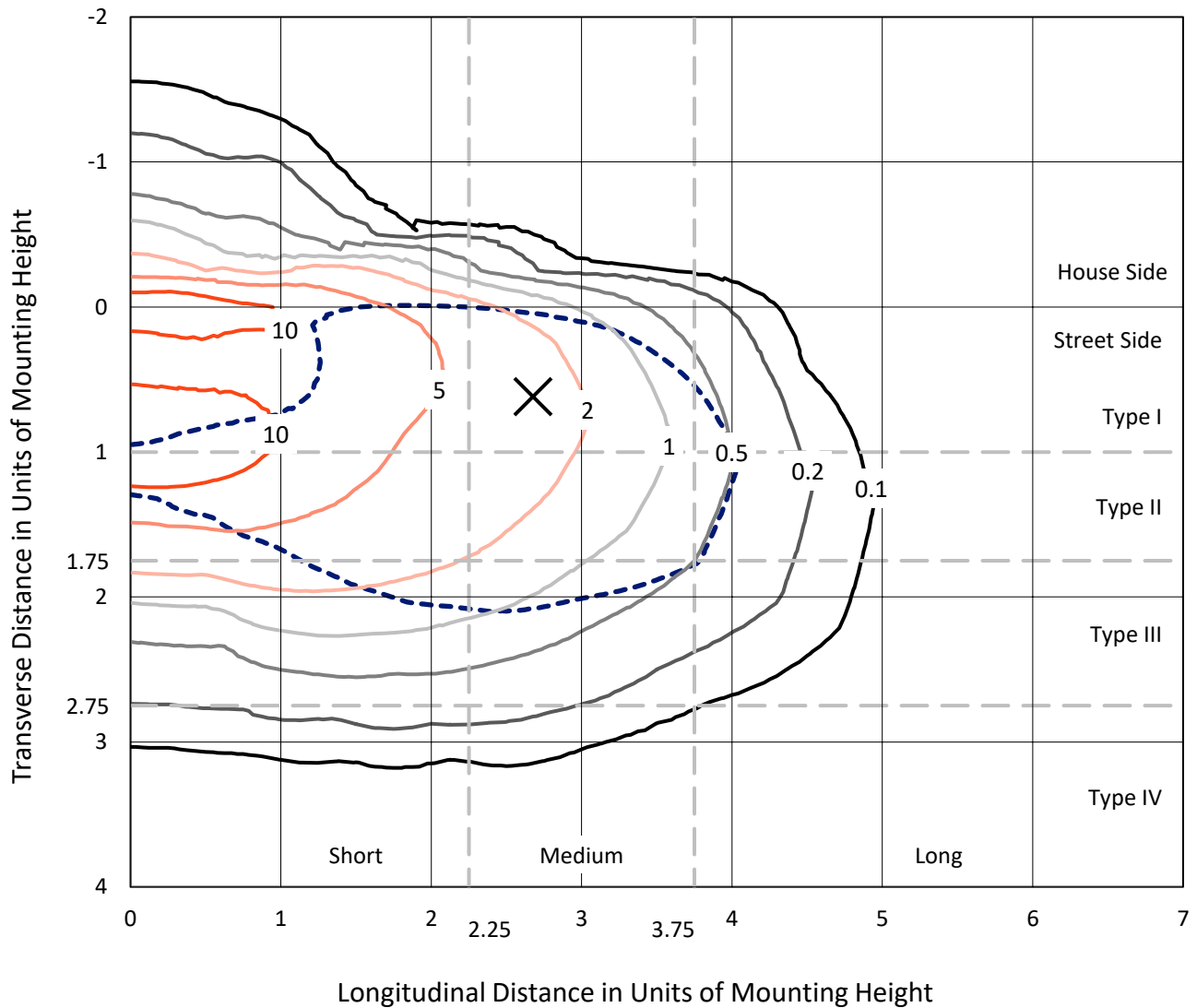
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

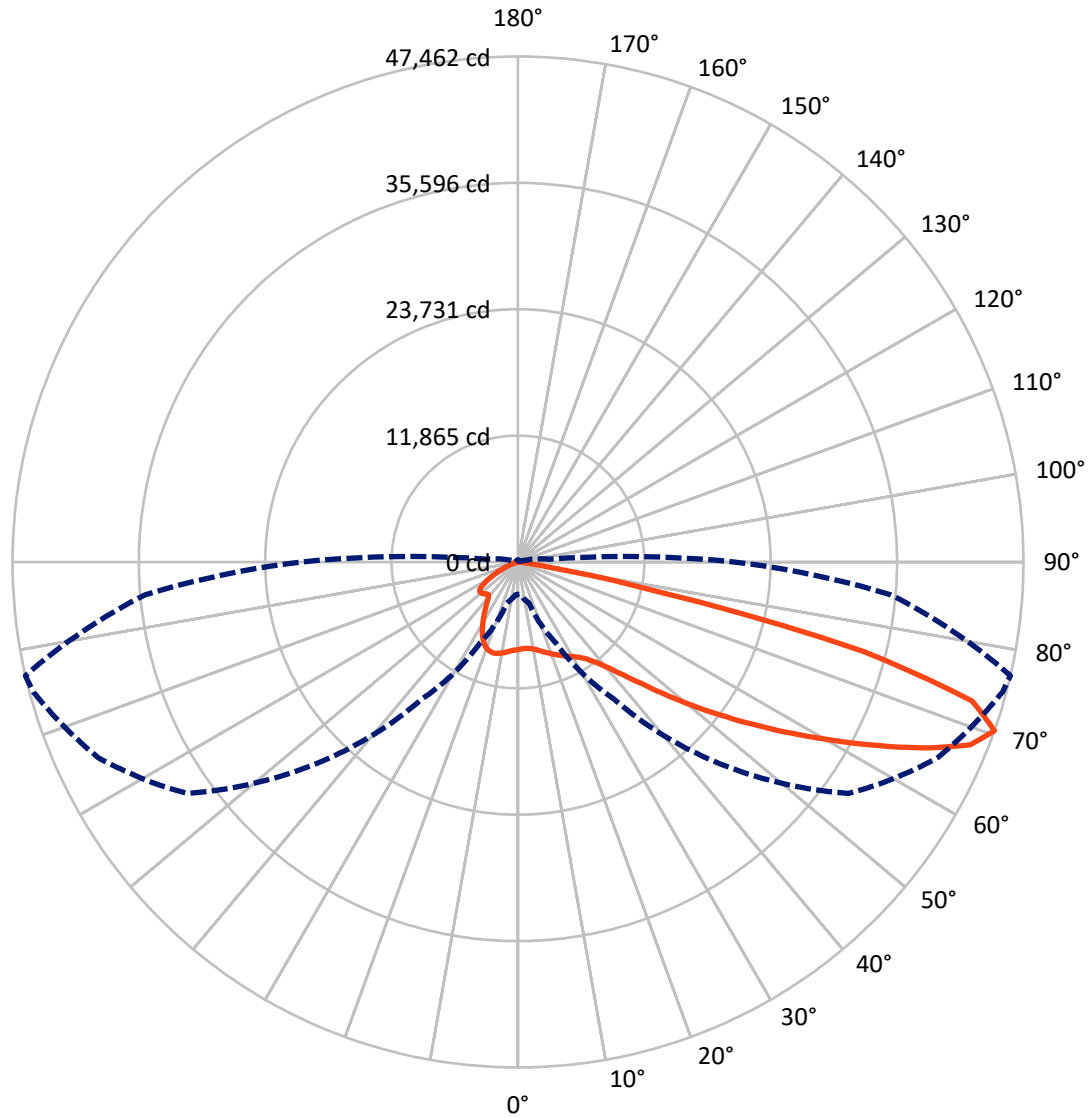
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 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	5552.7	0.0	5552.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	47122.3	0.0	47122.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	52675.0	0.0	52675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.1	1.3
10°-20°	1681.0	3.2
20°-30°	2600.0	4.9
30°-40°	4717.9	9.0
40°-50°	8905.6	16.9
50°-60°	12867.8	24.4
60°-70°	13697.5	26.0
70°-80°	7258.7	13.8
80°-90°	238.3	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°	52675.0	100.0
0°-180°	52675.0	100.0

Coefficient of Utilization



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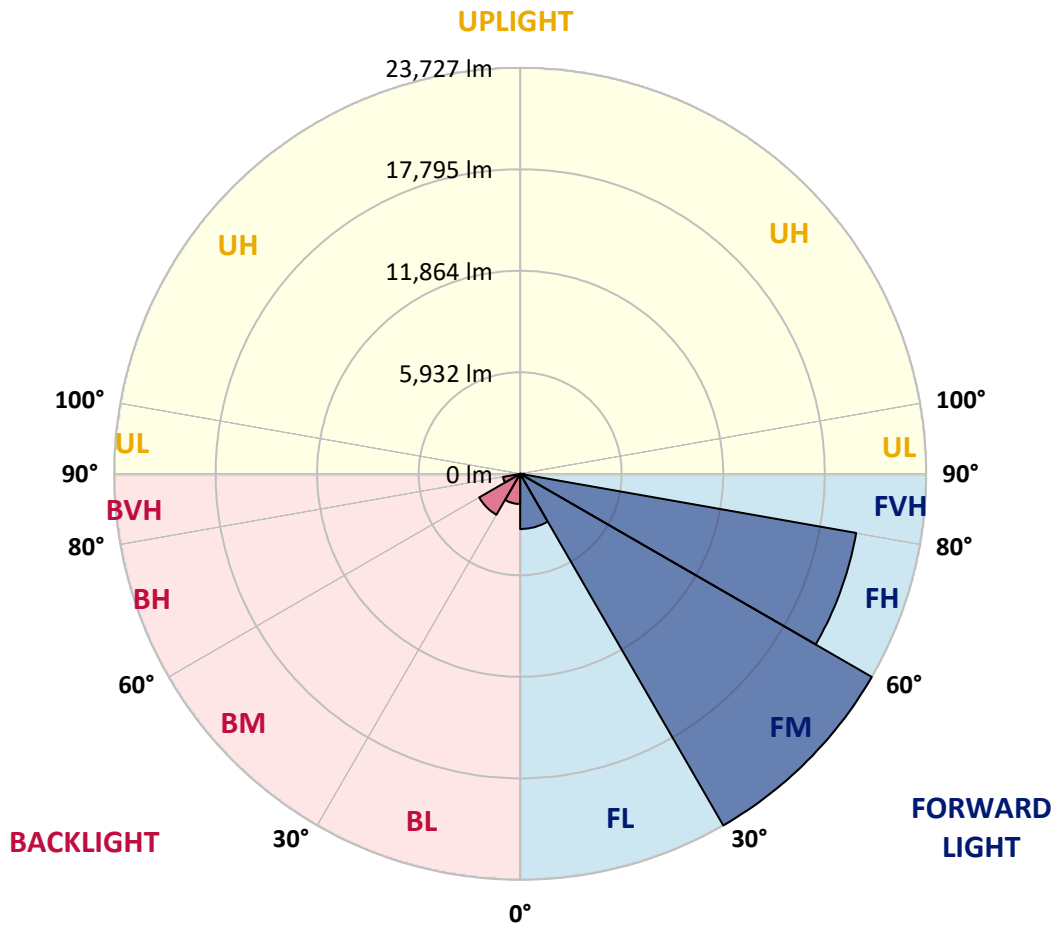
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3225.0	6.1			
FM (30°-60°)	23727.2	45.0			
FH (60°-80°)	19938.2	37.9			G5
FVH (80°-90°)	231.9	0.4			G3/500
BL (0°-30°)	1764.2	3.3	B3/2500		
BM (30°-60°)	2764.1	5.2	B3/5000		
BH (60°-80°)	1017.9	1.9	B3/2500		G3/2500
BVH (80°-90°)	6.4	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°	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3
2.5°	7714.1	7783.9	7773.9	7820.5	7837.1	7903.7	7970.2	8060.0	8159.8	8156.5
5°	7278.3	7348.1	7364.8	7428.0	7507.8	7610.9	7747.3	7926.9	8113.2	8143.2
7.5°	6762.7	6835.9	6879.1	7005.5	7151.9	7364.8	7587.6	7850.4	8159.8	8203.0
10°	6247.1	6313.6	6370.2	6549.8	6782.6	7098.7	7461.2	7840.5	8256.3	8319.5
12.5°	5927.7	5990.9	6054.2	6210.5	6499.9	6885.8	7378.1	7887.0	8415.9	8505.8
15°	5814.6	5871.2	5921.1	6060.8	6330.2	6769.3	7361.4	7983.5	8618.8	8738.6
17.5°	5831.3	5861.2	5894.5	6000.9	6263.7	6716.1	7391.4	8149.8	8858.4	8964.8
20°	5927.7	5944.4	5947.7	6020.9	6253.7	6709.5	7451.3	8309.5	9084.6	9227.6
22.5°	6050.8	6057.5	6050.8	6100.7	6316.9	6759.4	7531.1	8502.4	9337.4	9470.4
25°	6626.3	6499.9	6340.2	6243.8	6423.4	6855.8	7650.9	8761.9	9613.5	9743.2
27.5°	8412.6	8050.0	7477.9	6835.9	6642.9	6995.5	7817.2	9024.7	9892.9	10009.3
30°	11313.3	10837.6	9866.3	8419.3	7348.1	7288.3	8033.4	9287.5	10188.9	10315.3
32.5°	14220.6	14104.2	12983.2	10980.6	8934.9	7940.3	8392.7	9643.4	10581.5	10681.3
35°	17161.2	16925.0	16006.9	14027.7	11379.8	9267.5	8991.4	10109.1	11097.1	11210.2
37.5°	19413.2	19270.2	18701.3	17071.4	14280.5	11316.6	10016.0	10830.9	11845.5	11971.9
40°	21402.4	21335.9	21143.0	20068.5	17523.8	13997.7	11609.3	11948.6	12883.4	13033.1
42.5°	22965.9	23122.2	23232.0	22932.6	20866.9	17058.1	13751.6	13518.7	14330.4	14483.4
45°	24565.9	24619.1	25061.5	25494.0	24186.7	20258.1	16166.6	15358.3	16130.0	16319.6
47.5°	25593.8	25806.7	26585.0	27346.8	26977.6	23431.6	18761.2	17530.4	18215.7	18571.6
50°	25670.3	26072.8	27143.9	28471.1	29010.0	26452.0	21582.1	20005.3	20733.8	21126.3
52.5°	24396.2	25021.6	26681.5	28624.2	30107.8	29010.0	24499.4	22480.2	23414.9	23927.2
55°	18704.7	19523.0	24941.8	27792.5	30151.0	30949.4	27340.1	25058.2	26402.1	26980.9
57.5°	16296.3	16708.8	19609.5	26348.9	29349.3	31731.1	29908.2	27513.1	29652.0	30370.6
60°	13558.6	14100.9	16446.0	23987.1	28261.6	31807.6	32176.8	30679.9	33174.8	33983.1
62.5°	9214.3	9803.1	12134.9	19928.8	26774.7	31771.0	34036.3	33939.8	37090.0	37958.2
65°	5708.2	6077.4	7614.3	16273.0	24695.6	31810.9	35982.3	37898.3	41221.5	42103.0
67.5°	4510.7	4680.3	5482.0	12494.2	21113.0	30912.8	37924.9	41620.6	45110.1	45808.6
70°	3030.4	3133.5	3988.4	8376.0	15707.5	26768.0	37888.3	43490.1	47112.6	47461.9
72.5°	1596.7	1676.5	2331.8	3878.6	9487.1	19027.3	31937.3	41254.7	45120.1	44594.5
75°	798.3	931.4	1570.1	1969.3	4051.6	10611.4	19832.3	32526.1	35513.3	33477.5
77.5°	605.4	731.8	1297.3	1297.3	1410.4	3572.6	8399.3	17740.0	16362.8	13625.2
80°	385.9	499.0	1134.3	981.3	588.8	908.1	2188.8	4969.7	3476.1	2644.5
82.5°	226.2	326.0	944.7	648.7	329.3	336.0	618.7	1057.8	901.5	701.9
85°	89.8	212.9	648.7	256.1	129.7	83.2	186.3	226.2	186.3	139.7
87.5°	0.0	49.9	113.1	0.0	10.0	6.7	13.3	16.6	16.6	13.3
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°
8216.3	0°	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3	8216.3
8223.0	2.5°	8252.9	8259.6	8279.6	8282.9	8236.3	8176.4	8153.1	8143.2	8103.2	8099.9
8276.2	5°	8352.7	8382.7	8352.7	8266.2	8060.0	7770.6	7551.1	7371.4	7208.4	7158.5
8459.2	7.5°	8552.3	8582.3	8492.4	8153.1	7634.2	7058.7	6539.8	6173.9	5844.6	5721.5
8682.1	10°	8838.4	8878.3	8595.6	7910.3	6992.2	6067.5	5189.3	4570.6	4088.2	3892.0
8984.8	12.5°	9197.7	9214.3	8652.1	7541.1	6157.3	4836.7	3592.6	2930.6	2501.5	2341.8
9350.7	15°	9593.5	9570.2	8658.8	7038.8	5019.6	3419.6	2345.2	1926.0	1753.0	1699.8
9716.6	17.5°	10009.3	9912.8	8525.7	6313.6	3772.2	2338.5	1739.7	1639.9	1610.0	1596.7
10079.2	20°	10418.5	10202.2	8282.9	5365.6	2707.7	1746.4	1580.1	1550.1	1533.5	1526.8
10445.1	22.5°	10791.0	10421.8	7867.1	4264.5	1965.9	1543.5	1493.6	1467.0	1437.0	1423.7
10801.0	25°	11153.6	10548.2	7281.6	3236.6	1573.4	1443.7	1403.8	1353.9	1314.0	1297.3
11183.5	27.5°	11506.2	10628.0	6549.8	2395.0	1403.8	1350.5	1277.4	1207.5	1177.6	1170.9
11592.7	30°	11882.1	10654.6	5718.2	1786.3	1300.6	1234.1	1127.7	1047.8	1031.2	1034.5
12144.9	32.5°	12341.2	10694.6	4879.9	1463.6	1214.2	1094.4	968.0	884.8	871.5	884.8
12949.9	35°	12890.0	10774.4	4071.6	1347.2	1137.6	951.4	815.0	745.1	731.8	741.8
13981.1	37.5°	13635.1	10904.1	3316.5	1323.9	1074.4	831.6	685.3	628.7	628.7	632.0
15245.2	40°	14626.4	11250.1	2641.2	1307.3	1041.2	741.8	578.8	555.5	565.5	572.2
16855.2	42.5°	15833.9	11985.2	2185.5	1287.3	1004.6	701.9	525.6	515.6	532.2	538.9
18784.5	45°	17187.8	12916.6	2025.8	1254.1	971.3	728.5	502.3	489.0	508.9	512.3
20946.7	47.5°	18588.2	13828.1	2005.9	1217.5	938.1	768.4	495.6	465.7	489.0	492.3
23255.3	50°	20005.3	14423.5	2025.8	1160.9	884.8	768.4	499.0	442.4	462.4	472.4
25650.3	52.5°	21432.4	14696.3	2012.5	1037.9	791.7	721.8	499.0	422.5	442.4	449.1
28238.3	55°	22816.2	14643.1	1809.6	854.9	671.9	638.7	485.7	405.8	419.1	422.5
30683.2	57.5°	23910.6	13901.3	1433.7	665.3	545.5	532.2	442.4	385.9	395.8	392.5
32925.3	60°	24482.7	12271.3	1024.5	512.3	429.1	419.1	389.2	359.3	365.9	349.3
34824.7	62.5°	24489.4	10115.8	685.3	405.8	342.6	332.6	332.6	322.7	316.0	282.7
36295.0	65°	23967.1	7724.0	455.7	322.7	276.1	259.5	279.4	276.1	252.8	206.2
36744.0	67.5°	22782.9	5062.9	346.0	252.8	212.9	202.9	222.9	232.9	216.2	173.0
35107.4	70°	20347.9	2947.2	286.1	196.3	159.7	149.7	179.6	199.6	179.6	139.7
30008.0	72.5°	16901.7	1590.0	232.9	146.4	109.8	99.8	143.0	163.0	143.0	103.1
19253.5	75°	10967.3	851.6	179.6	96.5	56.5	63.2	106.4	119.8	99.8	66.5
5651.7	77.5°	3682.4	375.9	113.1	46.6	26.6	26.6	63.2	73.2	46.6	23.3
1027.9	80°	821.6	156.3	46.6	20.0	10.0	10.0	13.3	13.3	6.7	0.0
316.0	82.5°	269.4	63.2	20.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0
79.8	85°	103.1	23.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26.6	87.5°	39.9	3.3	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°
8216.3
8106.6
7128.6
5671.6
3808.8
2291.9
1699.8
1593.4
1520.2
1420.4
1290.7
1164.3
1034.5
881.5
738.5
628.7
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515.6
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475.7
449.1
422.5
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