

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: P950391

Luminaire Tested: **GALN-SB4D-835-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950391
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-SB4D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 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: 31493 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

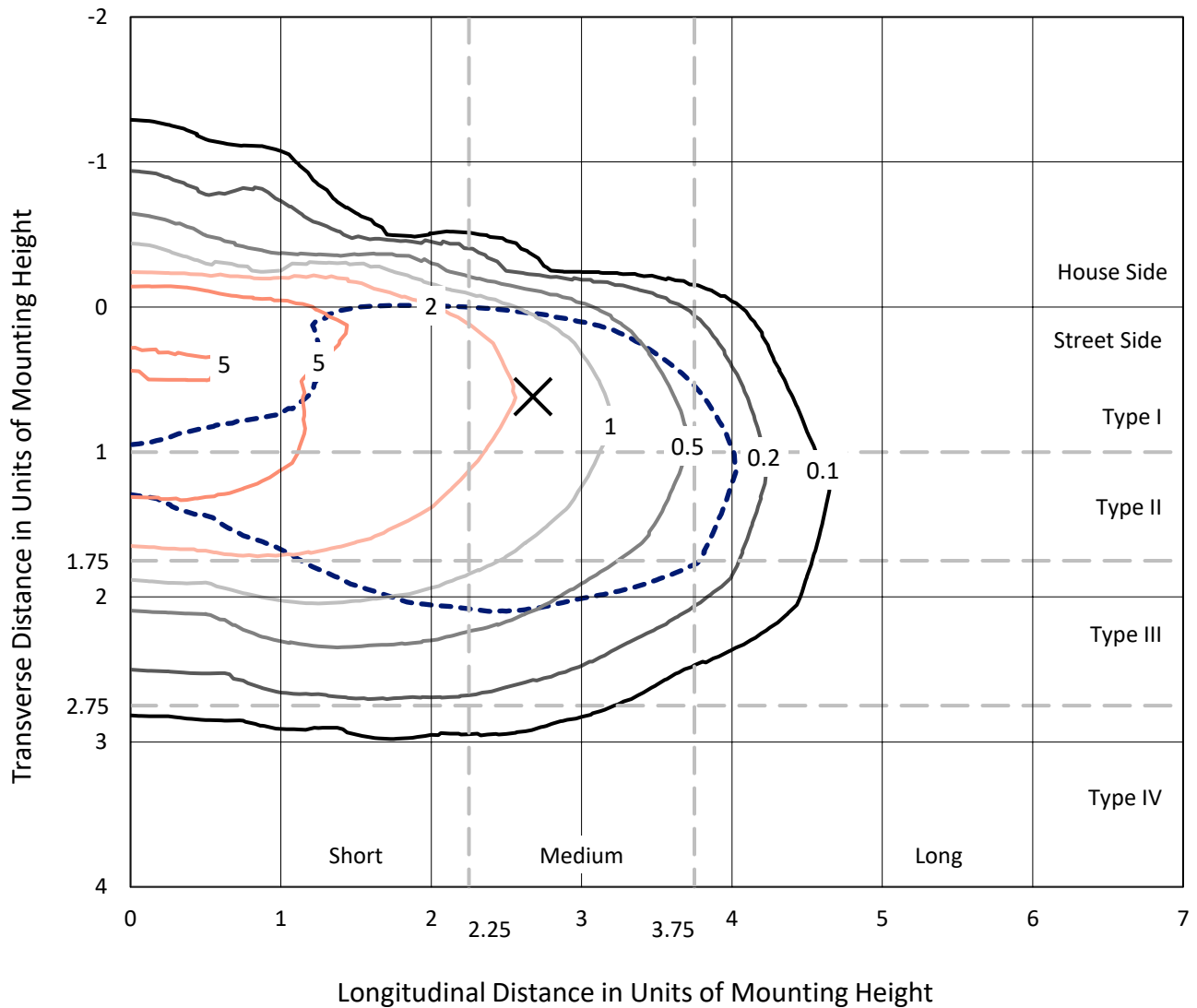
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

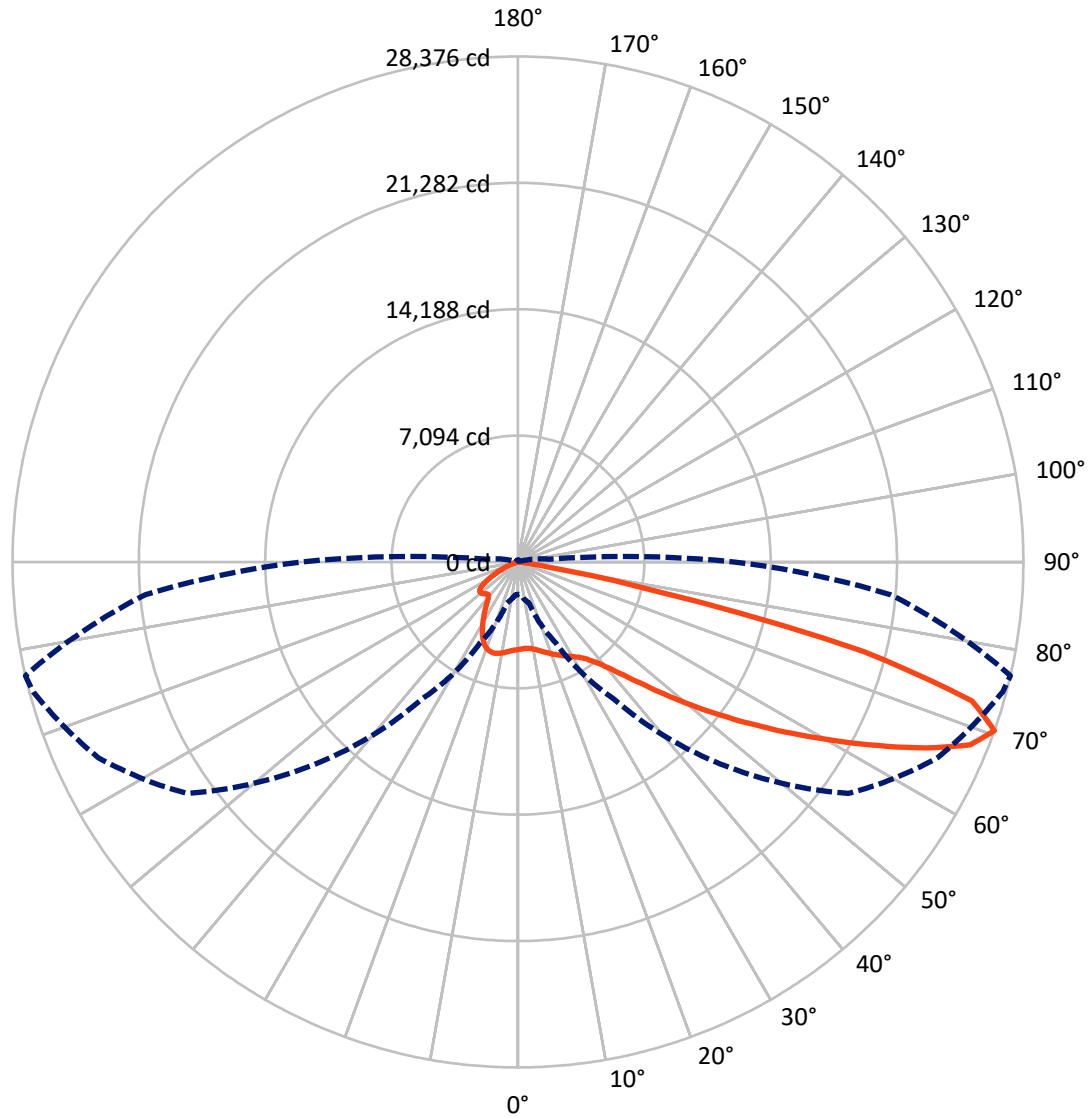
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	3319.8	0.0	3319.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	28173.2	0.0	28173.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	31493.0	0.0	31493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	1.3
10°-20°	1005.0	3.2
20°-30°	1554.5	4.9
30°-40°	2820.7	9.0
40°-50°	5324.4	16.9
50°-60°	7693.3	24.4
60°-70°	8189.4	26.0
70°-80°	4339.8	13.8
80°-90°	142.5	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°	31493.0	100.0
0°-180°	31493.0	100.0

Coefficient of Utilization



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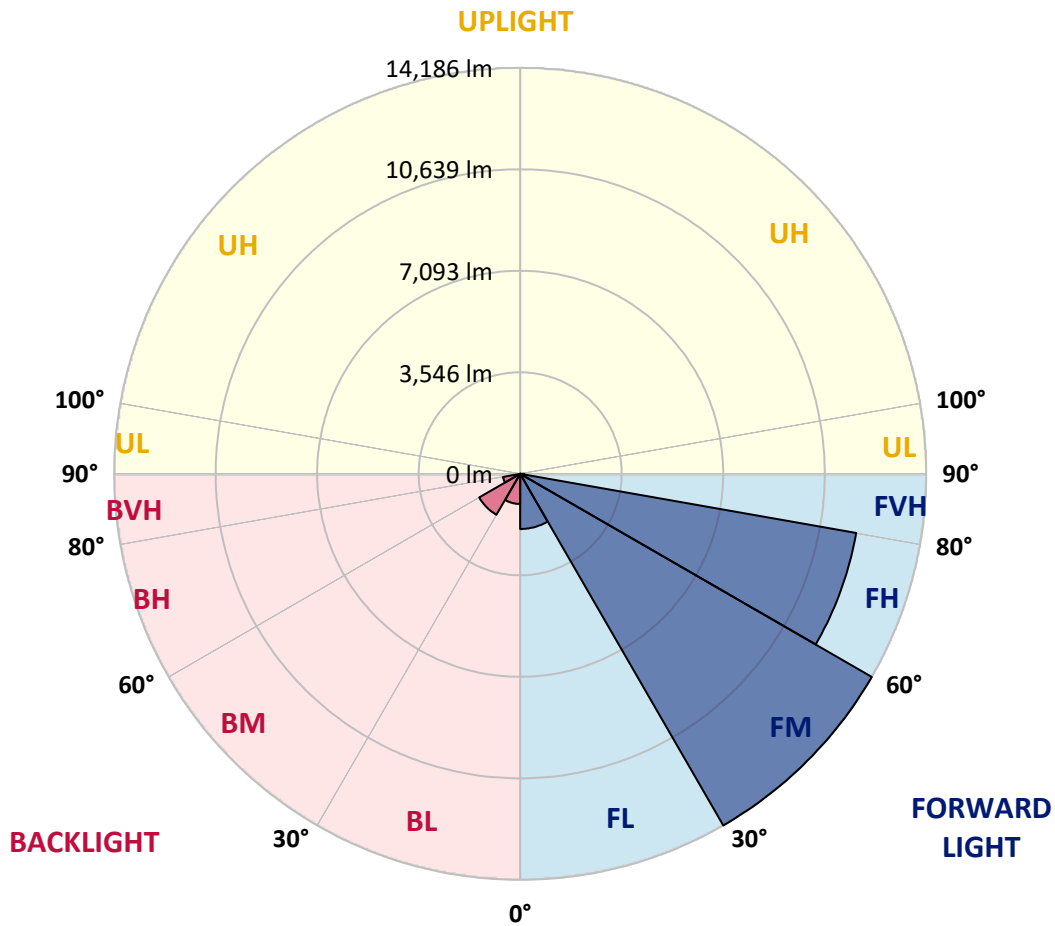
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.1	6.1			
FM (30°-60°)	14185.9	45.0			
FH (60°-80°)	11920.5	37.9			G4/12000
FVH (80°-90°)	138.7	0.4			G2/225
BL (0°-30°)	1054.8	3.3	B3/2500		
BM (30°-60°)	1652.6	5.2	B2/2500		
BH (60°-80°)	608.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.8	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-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3
2.5°	4612.0	4653.8	4647.8	4675.7	4685.6	4725.4	4765.2	4818.9	4878.5	4876.5
5°	4351.5	4393.3	4403.2	4441.0	4488.7	4550.4	4631.9	4739.3	4850.7	4868.6
7.5°	4043.2	4087.0	4112.8	4188.4	4275.9	4403.2	4536.5	4693.6	4878.5	4904.4
10°	3735.0	3774.7	3808.6	3915.9	4055.2	4244.1	4460.9	4687.6	4936.2	4974.0
12.5°	3544.0	3581.8	3619.6	3713.1	3886.1	4116.8	4411.2	4715.4	5031.7	5085.4
15°	3476.4	3510.2	3540.1	3623.6	3784.7	4047.2	4401.2	4773.1	5153.0	5224.6
17.5°	3486.4	3504.3	3524.2	3587.8	3744.9	4015.4	4419.1	4872.6	5296.2	5359.8
20°	3544.0	3554.0	3556.0	3599.7	3738.9	4011.4	4454.9	4968.0	5431.4	5516.9
22.5°	3617.6	3621.6	3617.6	3647.5	3776.7	4041.2	4502.6	5083.4	5582.6	5662.1
25°	3961.7	3886.1	3790.7	3733.0	3840.4	4098.9	4574.2	5238.5	5747.6	5825.2
27.5°	5029.7	4812.9	4470.8	4087.0	3971.6	4182.4	4673.7	5395.6	5914.7	5984.3
30°	6763.9	6479.5	5898.8	5033.7	4393.3	4357.5	4803.0	5552.7	6091.7	6167.3
32.5°	8502.1	8432.5	7762.3	6565.0	5341.9	4747.3	5017.7	5765.5	6326.4	6386.0
35°	10260.2	10119.0	9570.1	8386.8	6803.7	5540.8	5375.7	6044.0	6634.6	6702.3
37.5°	11606.6	11521.1	11181.0	10206.5	8537.9	6765.9	5988.3	6475.5	7082.1	7157.7
40°	12795.9	12756.2	12640.8	11998.4	10477.0	8368.9	6940.9	7143.8	7702.6	7792.1
42.5°	13730.7	13824.2	13889.8	13710.8	12475.8	10198.6	8221.7	8082.5	8567.8	8659.2
45°	14687.3	14719.1	14983.6	15242.2	14460.6	12111.8	9665.6	9182.3	9643.7	9757.1
47.5°	15301.8	15429.1	15894.5	16349.9	16129.2	14009.1	11216.8	10481.0	10890.7	11103.5
50°	15347.6	15588.2	16228.6	17022.2	17344.3	15814.9	12903.3	11960.7	12396.2	12630.9
52.5°	14585.9	14959.8	15952.2	17113.6	18000.6	17344.3	14647.5	13440.3	13999.2	14305.4
55°	11183.0	11672.3	14912.0	16616.4	18026.5	18503.8	16346.0	14981.6	15785.1	16131.2
57.5°	9743.1	9989.7	11724.0	15753.3	17547.2	18971.2	17881.3	16449.4	17728.2	18157.8
60°	8106.4	8430.5	9832.6	14341.2	16896.9	19016.9	19237.7	18342.7	19834.3	20317.6
62.5°	5509.0	5861.0	7255.1	11914.9	16007.9	18995.0	20349.4	20291.7	22175.1	22694.2
65°	3412.8	3633.5	4552.4	9729.2	14764.9	19018.9	21512.9	22658.4	24645.2	25172.3
67.5°	2696.8	2798.2	3277.5	7469.9	12622.9	18481.9	22674.3	24883.9	26970.1	27387.8
70°	1811.8	1873.5	2384.6	5007.8	9391.1	16003.9	22652.4	26001.6	28167.4	28376.2
72.5°	954.6	1002.4	1394.1	2318.9	5672.1	11375.9	19094.5	24665.1	26976.1	26661.9
75°	477.3	556.9	938.7	1177.4	2422.4	6344.3	11857.2	19446.5	21232.4	20015.3
77.5°	362.0	437.5	775.6	775.6	843.3	2136.0	5021.7	10606.3	9782.9	8146.1
80°	230.7	298.3	678.2	586.7	352.0	542.9	1308.6	2971.3	2078.3	1581.1
82.5°	135.2	194.9	564.8	387.8	196.9	200.9	369.9	632.4	539.0	419.6
85°	53.7	127.3	387.8	153.1	77.6	49.7	111.4	135.2	111.4	83.5
87.5°	0.0	29.8	67.6	0.0	6.0	4.0	8.0	9.9	9.9	8.0
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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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4912.3	0°	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3	4912.3
4916.3	2.5°	4934.2	4938.2	4950.1	4952.1	4924.3	4888.5	4874.6	4868.6	4844.7	4842.7
4948.1	5°	4993.9	5011.8	4993.9	4942.2	4818.9	4645.8	4514.6	4407.2	4309.7	4279.9
5057.5	7.5°	5113.2	5131.1	5077.4	4874.6	4564.3	4220.2	3910.0	3691.2	3494.3	3420.7
5190.8	10°	5284.2	5308.1	5139.1	4729.4	4180.5	3627.6	3102.5	2732.6	2444.2	2326.9
5371.8	12.5°	5499.0	5509.0	5172.9	4508.6	3681.3	2891.7	2147.9	1752.1	1495.6	1400.1
5590.5	15°	5735.7	5721.8	5176.8	4208.3	3001.1	2044.5	1402.1	1151.5	1048.1	1016.3
5809.3	17.5°	5984.3	5926.6	5097.3	3774.7	2255.3	1398.1	1040.1	980.5	962.6	954.6
6026.1	20°	6228.9	6099.7	4952.1	3207.9	1618.9	1044.1	944.7	926.8	916.8	912.9
6244.8	22.5°	6451.7	6230.9	4703.5	2549.6	1175.4	922.8	893.0	877.1	859.2	851.2
6457.6	25°	6668.5	6306.5	4353.5	1935.1	940.7	863.1	839.3	809.4	785.6	775.6
6686.3	27.5°	6879.3	6354.2	3915.9	1431.9	839.3	807.5	763.7	721.9	704.0	700.1
6931.0	30°	7104.0	6370.1	3418.7	1068.0	777.6	737.8	674.2	626.5	616.5	618.5
7261.1	32.5°	7378.5	6394.0	2917.6	875.1	725.9	654.3	578.7	529.0	521.1	529.0
7742.4	35°	7706.6	6441.7	2434.3	805.5	680.2	568.8	487.3	445.5	437.5	443.5
8358.9	37.5°	8152.1	6519.3	1982.8	791.5	642.4	497.2	409.7	375.9	375.9	377.9
9114.7	40°	8744.8	6726.1	1579.1	781.6	622.5	443.5	346.1	332.1	338.1	342.1
10077.3	42.5°	9466.7	7165.7	1306.6	769.7	600.6	419.6	314.2	308.3	318.2	322.2
11230.8	45°	10276.1	7722.5	1211.2	749.8	580.7	435.5	300.3	292.4	304.3	306.3
12523.5	47.5°	11113.4	8267.4	1199.2	727.9	560.8	459.4	296.3	278.4	292.4	294.3
13903.7	50°	11960.7	8623.4	1211.2	694.1	529.0	459.4	298.3	264.5	276.4	282.4
15335.6	52.5°	12813.8	8786.5	1203.2	620.5	473.3	431.6	298.3	252.6	264.5	268.5
16882.9	55°	13641.2	8754.7	1081.9	511.1	401.7	381.8	290.4	242.6	250.6	252.6
18344.7	57.5°	14295.5	8311.2	857.2	397.8	326.2	318.2	264.5	230.7	236.7	234.7
19685.2	60°	14637.6	7336.7	612.6	306.3	256.6	250.6	232.7	214.8	218.8	208.8
20820.8	62.5°	14641.6	6047.9	409.7	242.6	204.8	198.9	198.9	192.9	188.9	169.0
21699.8	65°	14329.3	4618.0	272.5	192.9	165.1	155.1	167.1	165.1	151.1	123.3
21968.3	67.5°	13621.3	3027.0	206.8	151.1	127.3	121.3	133.2	139.2	129.3	103.4
20989.8	70°	12165.5	1762.1	171.0	117.3	95.5	89.5	107.4	119.3	107.4	83.5
17941.0	72.5°	10105.1	950.6	139.2	87.5	65.6	59.7	85.5	97.5	85.5	61.7
11511.2	75°	6557.1	509.1	107.4	57.7	33.8	37.8	63.6	71.6	59.7	39.8
3379.0	77.5°	2201.6	224.7	67.6	27.8	15.9	15.9	37.8	43.8	27.8	13.9
614.5	80°	491.2	93.5	27.8	11.9	6.0	6.0	8.0	8.0	4.0	0.0
188.9	82.5°	161.1	37.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
47.7	85°	61.7	13.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.9	87.5°	23.9	2.0	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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<u>180°</u>
4912.3
4846.7
4262.0
3390.9
2277.2
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1016.3
952.6
908.9
849.2
771.7
696.1
618.5
527.0
441.5
375.9
342.1
322.2
308.3
296.3
284.4
268.5
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206.8
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