

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: STREETWORKS

Report Number: P638339

Luminaire Tested: **IFLD-S-SA3C-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638339
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13056.2 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

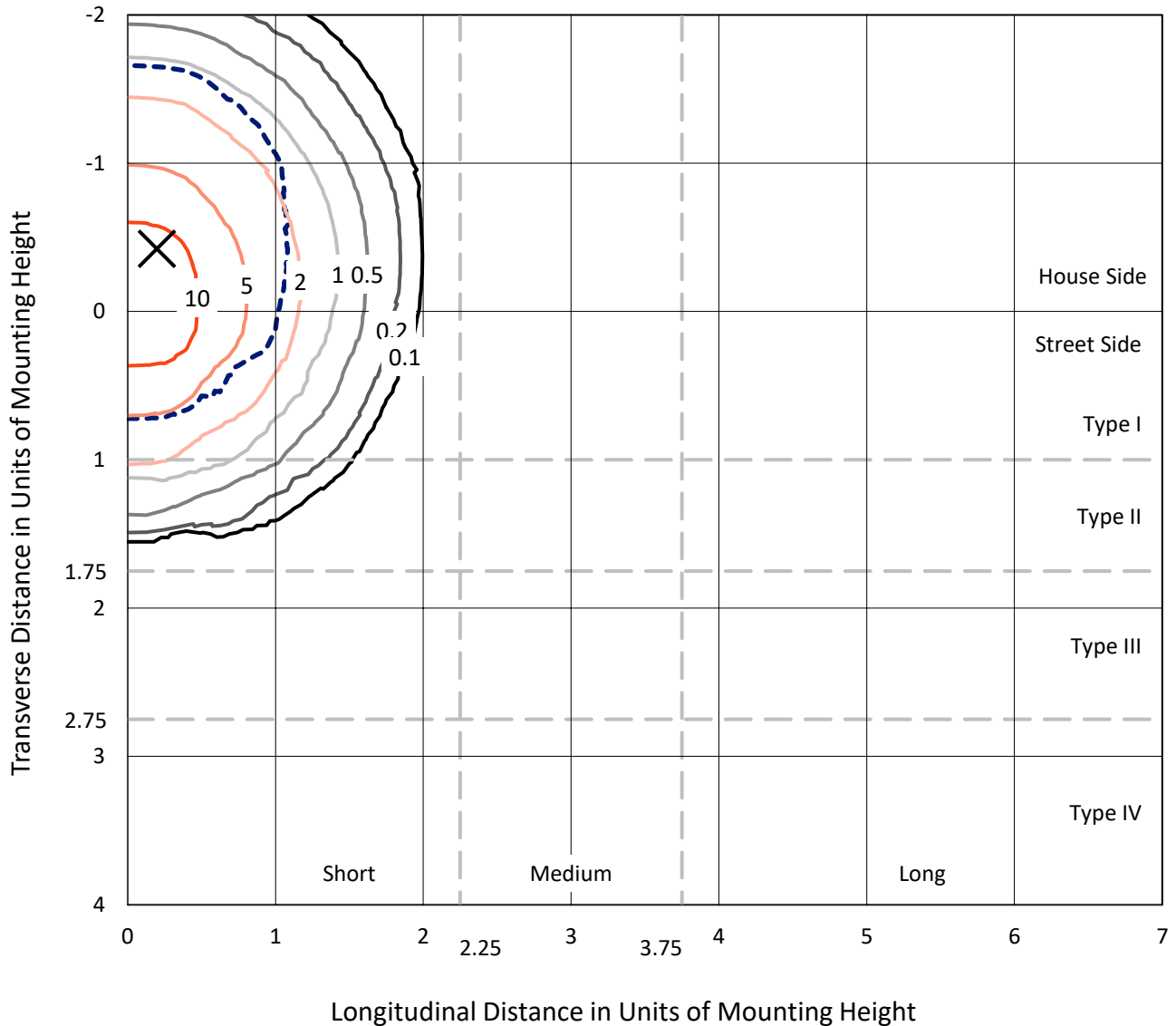
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

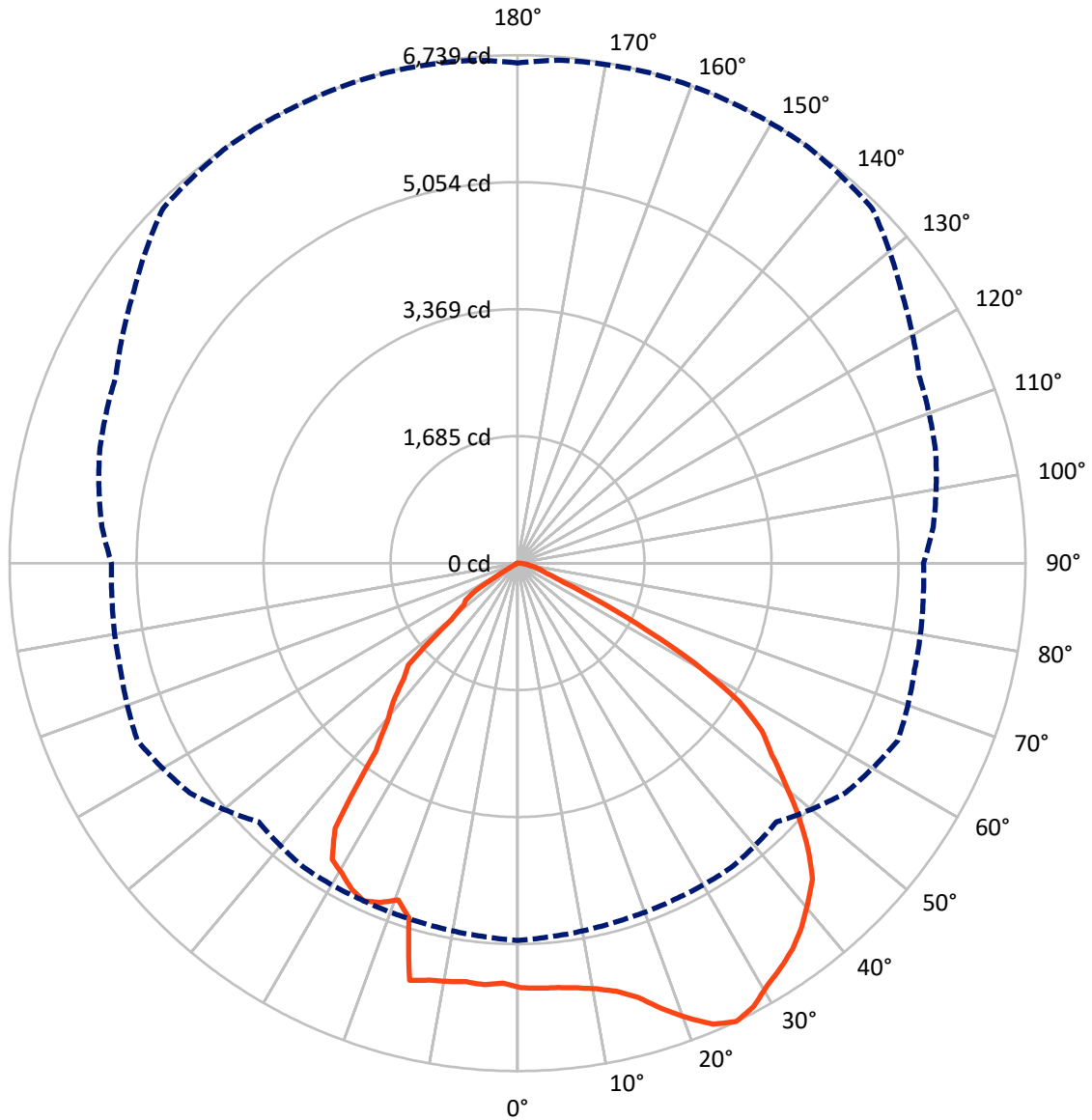
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8083.1	0.0	8083.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4973.1	0.0	4973.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	13056.2	0.0	13056.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.5	4.1
10°-20°	1650.3	12.6
20°-30°	2609.0	20.0
30°-40°	2947.1	22.6
40°-50°	2760.0	21.1
50°-60°	1902.8	14.6
60°-70°	511.2	3.9
70°-80°	106.5	0.8
80°-90°	28.8	0.2
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°	13056.2	100.0
0°-180°	13056.2	100.0



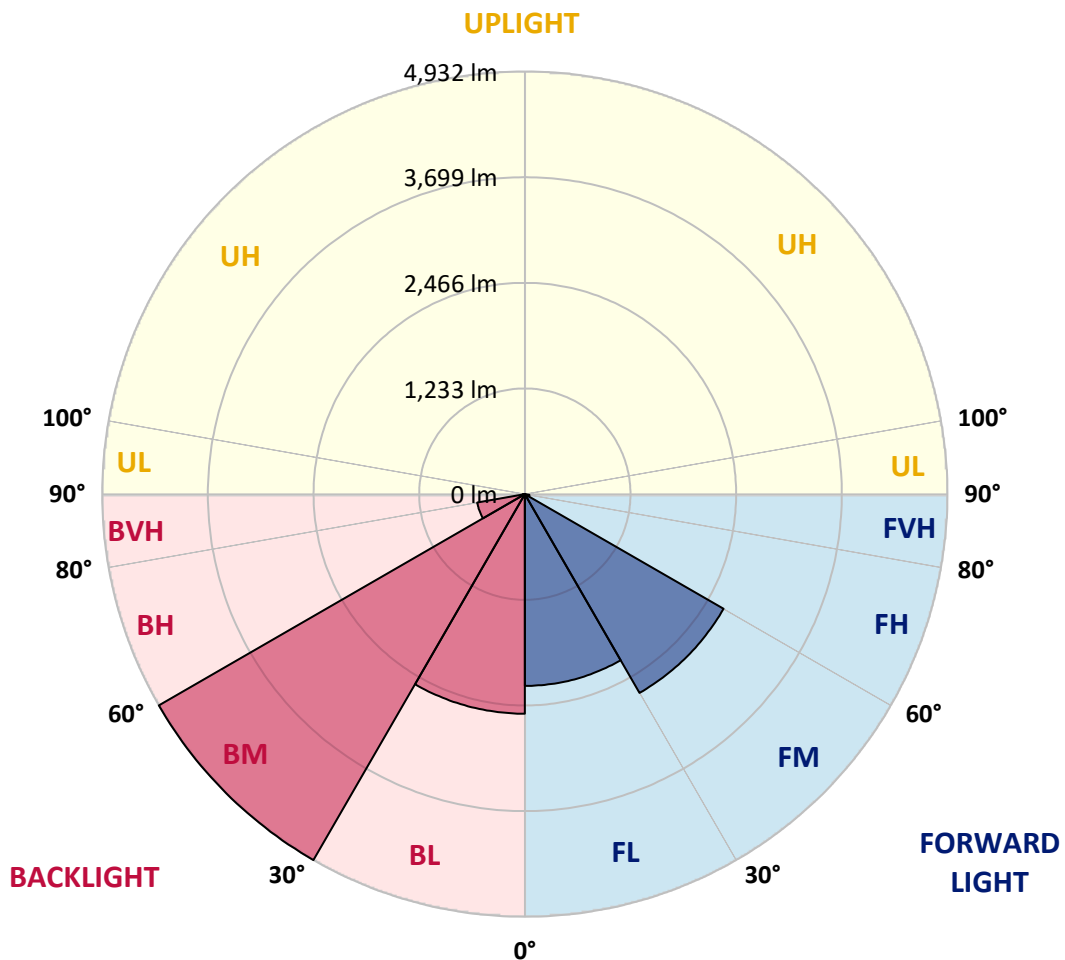
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.4	17.1			
FM (30°-60°)	2678.1	20.5			
FH (60°-80°)	53.7	0.4			G0/660
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	2562.3	19.6	B4/5000		
BM (30°-60°)	4931.8	37.8	B3/5000		
BH (60°-80°)	564.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	25.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5
2.5°	5658.5	5622.0	5587.5	5576.0	5623.9	5675.7	5643.1	5645.0	5633.5	5654.6
5°	5700.7	5650.8	5627.8	5610.5	5618.2	5671.9	5625.9	5643.1	5623.9	5648.9
7.5°	5685.3	5650.8	5627.8	5595.2	5620.1	5683.4	5639.3	5641.2	5631.6	5654.6
10°	5675.7	5650.8	5622.0	5625.9	5654.6	5708.4	5673.8	5693.0	5679.6	5693.0
12.5°	5698.8	5671.9	5656.6	5656.6	5681.5	5742.9	5725.6	5742.9	5737.1	5748.7
15°	5481.9	5506.9	5652.7	5718.0	5767.8	5829.2	5821.6	5838.8	5842.7	5859.9
17.5°	4624.3	4599.3	4587.8	4923.6	5815.8	6005.8	6000.0	5998.1	5978.9	5965.5
20°	4737.5	4727.9	4714.4	4739.4	4839.2	6097.9	6136.2	5900.2	5831.2	5825.4
22.5°	4917.8	4902.5	4852.6	4854.5	4885.2	5301.6	5946.3	5731.4	5708.4	5694.9
25°	5006.1	4975.4	4935.1	4923.6	4933.2	4856.4	5311.2	5566.4	5453.2	5401.4
27.5°	4850.7	4852.6	4820.0	4850.7	4814.2	4468.8	4275.0	5244.0	5240.2	5217.2
30°	4733.6	4727.9	4689.5	4727.9	4476.5	4090.8	4008.3	4891.0	4850.7	4820.0
32.5°	4374.8	4378.6	4489.9	4639.6	4227.1	3922.0	3672.5	4369.1	4750.9	4733.6
35°	3129.5	3137.2	3532.5	4271.2	3849.1	3586.2	3567.0	3776.2	4593.6	4601.2
37.5°	3012.5	3012.5	3002.9	3123.8	3551.7	3450.0	3488.3	3467.2	4207.9	4227.1
40°	2928.1	2910.8	2897.4	2707.4	2469.5	3354.0	3380.9	3284.9	3977.6	3981.5
42.5°	2826.4	2807.2	2811.0	2459.9	2210.4	3116.1	3041.3	2912.7	3593.9	3597.7
45°	2640.2	2672.9	2695.9	2152.9	2133.7	2225.8	2805.3	2724.7	3334.8	3405.8
47.5°	1343.1	1371.9	2104.9	1980.2	2024.3	1978.3	2369.7	2371.6	2774.6	3010.6
50°	1218.4	1210.7	1212.7	1155.1	1868.9	1600.3	1713.5	2174.0	2221.9	2559.6
52.5°	1135.9	1134.0	1017.0	903.7	1174.3	1408.4	1243.4	1573.4	1652.1	2168.2
55°	840.4	901.8	802.0	850.0	734.9	1128.2	1122.5	1419.9	1446.8	1738.4
57.5°	7.7	9.6	23.0	646.6	508.5	564.1	775.2	969.0	1017.0	1354.7
60°	1.9	3.8	9.6	19.2	330.0	347.3	518.1	560.3	631.3	807.8
62.5°	0.0	0.0	3.8	9.6	17.3	142.0	165.0	180.4	278.2	412.5
65°	0.0	0.0	1.9	5.8	9.6	23.0	40.3	84.4	120.9	149.7
67.5°	0.0	0.0	1.9	3.8	7.7	11.5	23.0	32.6	51.8	88.3
70°	0.0	0.0	1.9	3.8	5.8	9.6	15.4	23.0	30.7	44.1
72.5°	0.0	0.0	1.9	3.8	3.8	11.5	11.5	17.3	23.0	28.8
75°	0.0	0.0	1.9	1.9	3.8	7.7	11.5	13.4	15.4	23.0
77.5°	0.0	0.0	1.9	3.8	5.8	7.7	9.6	15.4	13.4	13.4
80°	0.0	0.0	1.9	5.8	5.8	9.6	11.5	15.4	9.6	9.6
82.5°	0.0	0.0	1.9	7.7	5.8	19.2	19.2	21.1	7.7	7.7
85°	0.0	0.0	5.8	3.8	11.5	19.2	17.3	11.5	9.6	5.8
87.5°	0.0	0.0	1.9	1.9	3.8	5.8	13.4	11.5	3.8	3.8
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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
5633.5	0°	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5	5633.5
5599.0	2.5°	5675.7	5650.8	5702.6	5696.8	5671.9	5660.4	5647.0	5635.4	5551.0
5602.8	5°	5677.7	5639.3	5702.6	5691.1	5687.3	5668.1	5656.6	5673.8	5597.1
5618.2	7.5°	5677.7	5639.3	5708.4	5712.2	5706.4	5691.1	5689.2	5700.7	5637.4
5645.0	10°	5716.0	5700.7	5758.2	5764.0	5756.3	5752.5	5742.9	5735.2	5668.1
5737.1	12.5°	5796.6	5765.9	5831.2	5848.4	5842.7	5852.3	5829.2	5840.8	5771.7
5831.2	15°	5894.5	5896.4	5946.3	5984.7	5980.8	6011.5	5977.0	6007.7	5957.8
5938.6	17.5°	6044.1	6065.3	6136.2	6193.8	6214.9	6237.9	6214.9	6224.5	6153.5
5819.7	20°	5886.8	5965.5	6307.0	6412.6	6456.7	6477.8	6439.4	6450.9	6379.9
5673.8	22.5°	5744.8	5846.5	6149.7	6479.7	6615.9	6658.2	6644.7	6642.8	6615.9
5386.0	25°	5535.7	5741.0	5877.2	6226.4	6654.3	6731.1	6738.7	6736.8	6696.5
5209.5	27.5°	5278.6	5324.6	5677.7	5890.6	6385.7	6677.3	6665.8	6610.2	6556.5
4843.0	30°	4950.4	5159.6	5318.8	5658.5	6038.4	6512.3	6512.3	6470.1	6414.5
4712.5	32.5°	4783.5	5054.1	5201.8	5324.6	5648.9	6328.1	6404.9	6360.7	6316.6
4610.8	35°	4695.2	4735.5	5080.9	5192.2	5466.6	5973.2	6284.0	6239.9	6207.2
4340.3	37.5°	4501.5	4595.5	4756.6	5054.1	5138.5	5683.4	6122.8	6099.8	6061.4
3989.1	40°	4069.7	4321.1	4568.6	4850.7	4938.9	5311.2	5927.1	5936.7	5884.9
3615.0	42.5°	3814.5	3985.3	4372.9	4562.9	4800.8	5071.3	5737.1	5752.5	5716.0
3425.0	45°	3515.2	3705.2	3977.6	4323.0	4647.3	4741.3	5401.4	5562.5	5531.8
3047.0	47.5°	3240.8	3394.3	3728.2	4077.4	4436.2	4422.8	5015.7	5318.8	5276.6
2757.3	50°	2851.3	3119.9	3277.3	3597.7	4133.0	4169.5	4605.1	5033.0	4998.4
2342.8	52.5°	2404.2	2741.9	3043.2	3336.8	3826.0	3912.4	4223.2	4741.3	4718.3
1790.2	55°	2101.1	2346.7	2686.3	2922.3	3453.8	3684.1	3937.3	4463.1	4451.6
1471.7	57.5°	1494.7	1968.7	2248.8	2578.8	2859.0	3275.4	3463.4	3897.0	3789.6
815.5	60°	1013.1	1235.7	1577.2	1932.2	2120.2	2536.6	2711.2	3058.5	3029.7
487.4	62.5°	535.3	740.6	984.3	1162.8	1299.0	1703.9	1776.8	2150.9	2141.4
195.7	65°	236.0	312.8	533.4	625.5	765.6	953.6	1017.0	1151.3	1118.6
95.9	67.5°	122.8	186.1	301.2	370.3	466.3	537.3	589.1	631.3	658.1
63.3	70°	74.8	136.2	186.1	257.1	320.4	378.0	418.3	475.9	510.4
32.6	72.5°	55.6	86.3	128.6	197.6	232.2	299.3	339.6	381.8	412.5
26.9	75°	30.7	57.6	103.6	155.4	186.1	243.7	280.1	308.9	318.5
15.4	77.5°	19.2	44.1	86.3	120.9	145.8	197.6	188.0	214.9	237.9
11.5	80°	13.4	32.6	67.2	99.8	101.7	126.6	149.7	172.7	188.0
7.7	82.5°	9.6	26.9	49.9	76.8	67.2	97.9	117.0	134.3	97.9
5.8	85°	7.7	19.2	24.9	46.1	38.4	69.1	59.5	57.6	38.4
3.8	87.5°	5.8	9.6	17.3	21.1	15.4	15.4	19.2	23.0	19.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5633.5
5493.5
5531.8
5564.5
5612.4
5710.3
5875.3
6092.1
6330.0
6529.6
6635.1
6514.2
6393.4
6280.2
6161.2
6023.0
5873.4
5712.2
5535.7
5307.3
5004.2
4733.6
4465.0
3778.1
3031.7
2143.3
1105.2
658.1
512.3
418.3
312.8
241.8
190.0
71.0
38.4
19.2
0.0

(END OF REPORT)