

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: P638345

Luminaire Tested: **IFLD-S-SA6D-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638345
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28182.2 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

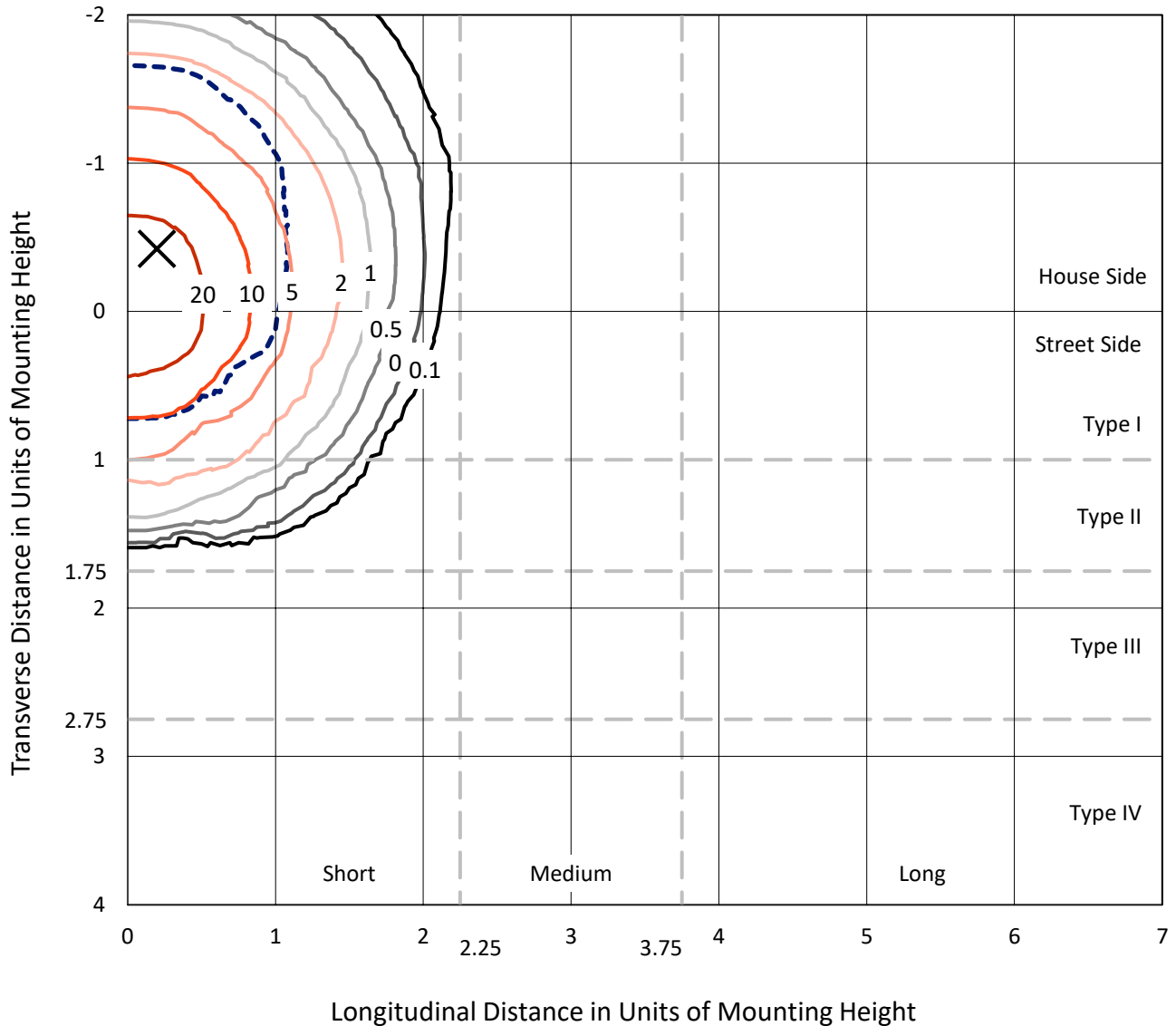
Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

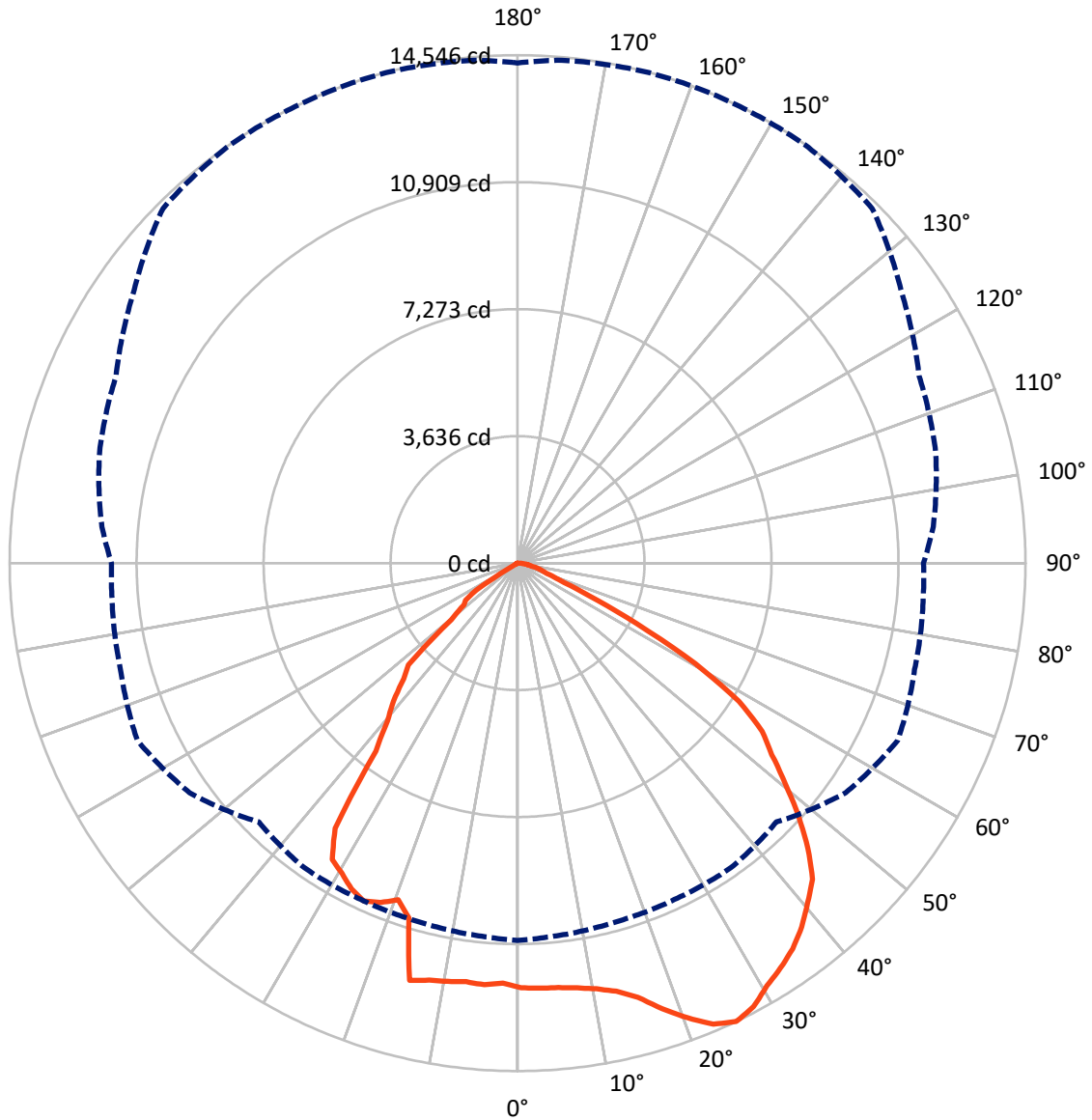
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 fc
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-S-SA6D-727-U-LAM-VI

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	17447.7	0.0	17447.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	10734.5	0.0	10734.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	28182.2	0.0	28182.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1166.6	4.1
10°-20°	3562.2	12.6
20°-30°	5631.6	20.0
30°-40°	6361.4	22.6
40°-50°	5957.5	21.1
50°-60°	4107.3	14.6
60°-70°	1103.5	3.9
70°-80°	230.0	0.8
80°-90°	62.2	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°	28182.2	100.0
0°-180°	28182.2	100.0



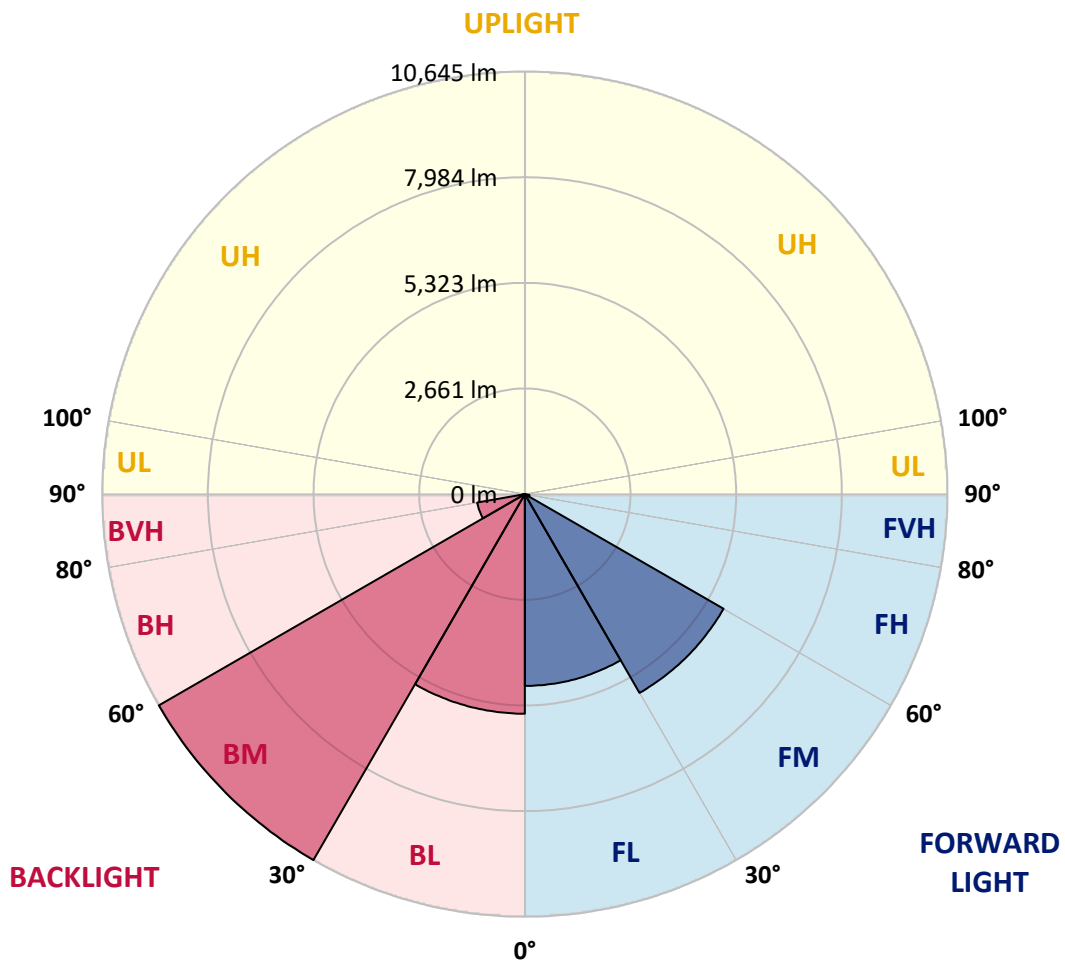
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4829.5	17.1			
FM (30°-60°)	5780.8	20.5			
FH (60°-80°)	115.8	0.4			G0/660
FVH (80°-90°)	8.3	0.0			G0/10
BL (0°-30°)	5530.8	19.6	B5		
BM (30°-60°)	10645.4	37.8	B5		
BH (60°-80°)	1217.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	53.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1
2.5°	12214.0	12135.3	12060.7	12035.9	12139.4	12251.2	12180.8	12185.0	12160.1	12205.7
5°	12305.1	12197.4	12147.7	12110.4	12127.0	12243.0	12143.5	12180.8	12139.4	12193.2
7.5°	12271.9	12197.4	12147.7	12077.3	12131.1	12267.8	12172.5	12176.7	12156.0	12205.7
10°	12251.2	12197.4	12135.3	12143.5	12205.7	12321.6	12247.1	12288.5	12259.5	12288.5
12.5°	12300.9	12243.0	12209.8	12209.8	12263.7	12396.2	12358.9	12396.2	12383.8	12408.6
15°	11832.9	11886.8	12201.5	12342.4	12450.0	12582.6	12566.0	12603.3	12611.6	12648.8
17.5°	9981.6	9927.7	9902.9	10627.7	12553.6	12963.6	12951.2	12947.0	12905.6	12876.6
20°	10225.9	10205.2	10176.2	10230.1	10445.4	13162.4	13245.2	12735.8	12586.7	12574.3
22.5°	10615.3	10582.1	10474.4	10478.6	10544.8	11443.6	12835.2	12371.3	12321.6	12292.7
25°	10805.8	10739.5	10652.5	10627.7	10648.4	10482.7	11464.3	12015.2	11770.8	11659.0
27.5°	10470.3	10474.4	10404.0	10470.3	10391.6	9646.1	9227.8	11319.3	11311.1	11261.4
30°	10217.6	10205.2	10122.4	10205.2	9662.7	8830.2	8652.1	10557.3	10470.3	10404.0
32.5°	9443.1	9451.4	9691.6	10014.7	9124.2	8465.7	7927.3	9430.7	10254.9	10217.6
35°	6755.2	6771.7	7624.9	9219.5	8308.3	7740.9	7699.5	8150.9	9915.3	9931.9
37.5°	6502.5	6502.5	6481.8	6742.7	7666.3	7446.8	7529.7	7484.1	9082.8	9124.2
40°	6320.3	6283.0	6254.0	5844.0	5330.4	7239.7	7297.7	7090.6	8585.8	8594.1
42.5°	6100.8	6059.3	6067.6	5309.7	4771.3	6726.2	6564.6	6287.1	7757.5	7765.7
45°	5699.0	5769.4	5819.1	4647.0	4605.6	4804.4	6055.2	5881.3	7198.3	7351.6
47.5°	2899.2	2961.3	4543.5	4274.3	4369.5	4270.1	5115.0	5119.2	5988.9	6498.4
50°	2630.0	2613.4	2617.6	2493.3	4034.0	3454.2	3698.6	4692.6	4796.1	5525.1
52.5°	2451.9	2447.8	2195.1	1950.8	2534.7	3040.0	2683.8	3396.2	3566.0	4680.2
55°	1814.1	1946.6	1731.2	1834.8	1586.3	2435.3	2422.9	3064.9	3122.9	3752.4
57.5°	16.6	20.7	49.7	1395.8	1097.6	1217.7	1673.3	2091.6	2195.1	2924.1
60°	4.1	8.3	20.7	41.4	712.4	749.7	1118.3	1209.4	1362.6	1743.7
62.5°	0.0	0.0	8.3	20.7	37.3	306.5	356.2	389.3	600.6	890.5
65°	0.0	0.0	4.1	12.4	20.7	49.7	87.0	182.2	260.9	323.1
67.5°	0.0	0.0	4.1	8.3	16.6	24.9	49.7	70.4	111.8	190.5
70°	0.0	0.0	4.1	8.3	12.4	20.7	33.1	49.7	66.3	95.3
72.5°	0.0	0.0	4.1	8.3	8.3	24.9	24.9	37.3	49.7	62.1
75°	0.0	0.0	4.1	4.1	8.3	16.6	24.9	29.0	33.1	49.7
77.5°	0.0	0.0	4.1	8.3	12.4	16.6	20.7	33.1	29.0	29.0
80°	0.0	0.0	4.1	12.4	12.4	20.7	24.9	33.1	20.7	20.7
82.5°	0.0	0.0	4.1	16.6	12.4	41.4	41.4	45.6	16.6	16.6
85°	0.0	0.0	12.4	8.3	24.9	41.4	37.3	24.9	20.7	12.4
87.5°	0.0	0.0	4.1	4.1	8.3	12.4	29.0	24.9	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638345
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
12160.1	0°	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1	12160.1
12085.6	2.5°	12251.2	12197.4	12309.2	12296.8	12243.0	12218.1	12189.1	12164.3	11982.0
12093.8	5°	12255.4	12172.5	12309.2	12284.4	12276.1	12234.7	12209.8	12247.1	12081.4
12127.0	7.5°	12255.4	12172.5	12321.6	12329.9	12317.5	12284.4	12280.2	12305.1	12168.4
12185.0	10°	12338.2	12305.1	12429.3	12441.8	12425.2	12416.9	12396.2	12379.6	12234.7
12383.8	12.5°	12512.2	12445.9	12586.7	12624.0	12611.6	12632.3	12582.6	12607.4	12458.3
12586.7	15°	12723.4	12727.5	12835.2	12918.1	12909.8	12976.0	12901.5	12967.8	12860.1
12818.7	17.5°	13046.4	13092.0	13245.2	13369.5	13415.1	13464.8	13415.1	13435.8	13282.5
12561.9	20°	12706.8	12876.6	13613.9	13841.7	13936.9	13982.5	13899.6	13924.5	13771.2
12247.1	22.5°	12400.3	12619.8	13274.2	13986.6	14280.7	14371.8	14342.8	14338.7	14280.7
11625.8	25°	11948.9	12392.1	12686.1	13439.9	14363.5	14529.2	14545.8	14541.6	14454.6
11244.8	27.5°	11393.9	11493.3	12255.4	12715.1	13783.7	14413.2	14388.4	14268.3	14152.3
10453.7	30°	10685.7	11137.1	11480.9	12214.0	13034.0	14057.0	14057.0	13965.9	13845.8
10172.1	32.5°	10325.3	10909.3	11228.2	11493.3	12193.2	13659.4	13825.1	13729.8	13634.6
9952.6	35°	10134.8	10221.8	10967.3	11207.5	11799.8	12893.2	13564.2	13468.9	13398.5
9368.6	37.5°	9716.5	9919.4	10267.3	10909.3	11091.5	12267.8	13216.3	13166.6	13083.7
8610.7	40°	8784.6	9327.2	9861.5	10470.3	10660.8	11464.3	12793.8	12814.5	12702.7
7803.0	42.5°	8233.8	8602.4	9439.0	9849.0	10362.6	10946.6	12383.8	12416.9	12338.2
7393.0	45°	7587.6	7997.7	8585.8	9331.3	10031.3	10234.2	11659.0	12006.9	11940.6
6577.1	47.5°	6995.4	7326.7	8047.4	8801.2	9575.7	9546.7	10826.5	11480.9	11389.8
5951.7	50°	6154.6	6734.5	7074.1	7765.7	8921.3	9000.0	9940.1	10863.8	10789.2
5057.1	52.5°	5189.6	5918.5	6568.8	7202.5	8258.6	8445.0	9115.9	10234.2	10184.5
3864.2	55°	4535.2	5065.3	5798.4	6307.9	7455.1	7952.1	8498.8	9633.7	9608.8
3176.7	57.5°	3226.4	4249.4	4854.1	5566.5	6171.2	7069.9	7475.8	8411.9	8179.9
1760.2	60°	2186.8	2667.3	3404.5	4170.7	4576.6	5475.4	5852.3	6601.9	6539.8
1052.0	62.5°	1155.5	1598.7	2124.7	2509.9	2804.0	3677.9	3835.2	4642.9	4622.2
422.5	65°	509.4	675.1	1151.4	1350.2	1652.5	2058.4	2195.1	2485.0	2414.6
207.1	67.5°	265.1	401.7	650.3	799.4	1006.4	1159.7	1271.5	1362.6	1420.6
136.7	70°	161.5	294.1	401.7	555.0	691.7	815.9	902.9	1027.1	1101.7
70.4	72.5°	120.1	186.4	277.5	426.6	501.1	646.1	733.1	824.2	890.5
58.0	75°	66.3	124.3	223.7	335.5	401.7	526.0	604.7	666.8	687.5
33.1	77.5°	41.4	95.3	186.4	260.9	314.8	426.6	405.9	463.9	513.6
24.9	80°	29.0	70.4	145.0	215.4	219.5	273.4	323.1	372.8	405.9
16.6	82.5°	20.7	58.0	107.7	165.7	145.0	211.2	252.6	289.9	211.2
12.4	85°	16.6	41.4	53.8	99.4	82.8	149.1	128.4	124.3	82.8
8.3	87.5°	12.4	20.7	37.3	45.6	33.1	33.1	41.4	49.7	41.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12160.1
11857.8
11940.6
12011.0
12114.6
12325.8
12682.0
13150.0
13663.6
14094.3
14322.1
14061.2
13800.2
13555.9
13299.1
13000.9
12677.8
12329.9
11948.9
11456.0
10801.6
10217.6
9637.8
8155.1
6543.9
4626.3
2385.6
1420.6
1105.8
902.9
675.1
521.9
410.0
153.2
82.8
41.4
0.0

(END OF REPORT)