

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: P638520

Luminaire Tested: **IFLD-S-SA6E-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638520  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28668 lumens  
Efficiency: N/A  
Efficacy: 61.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

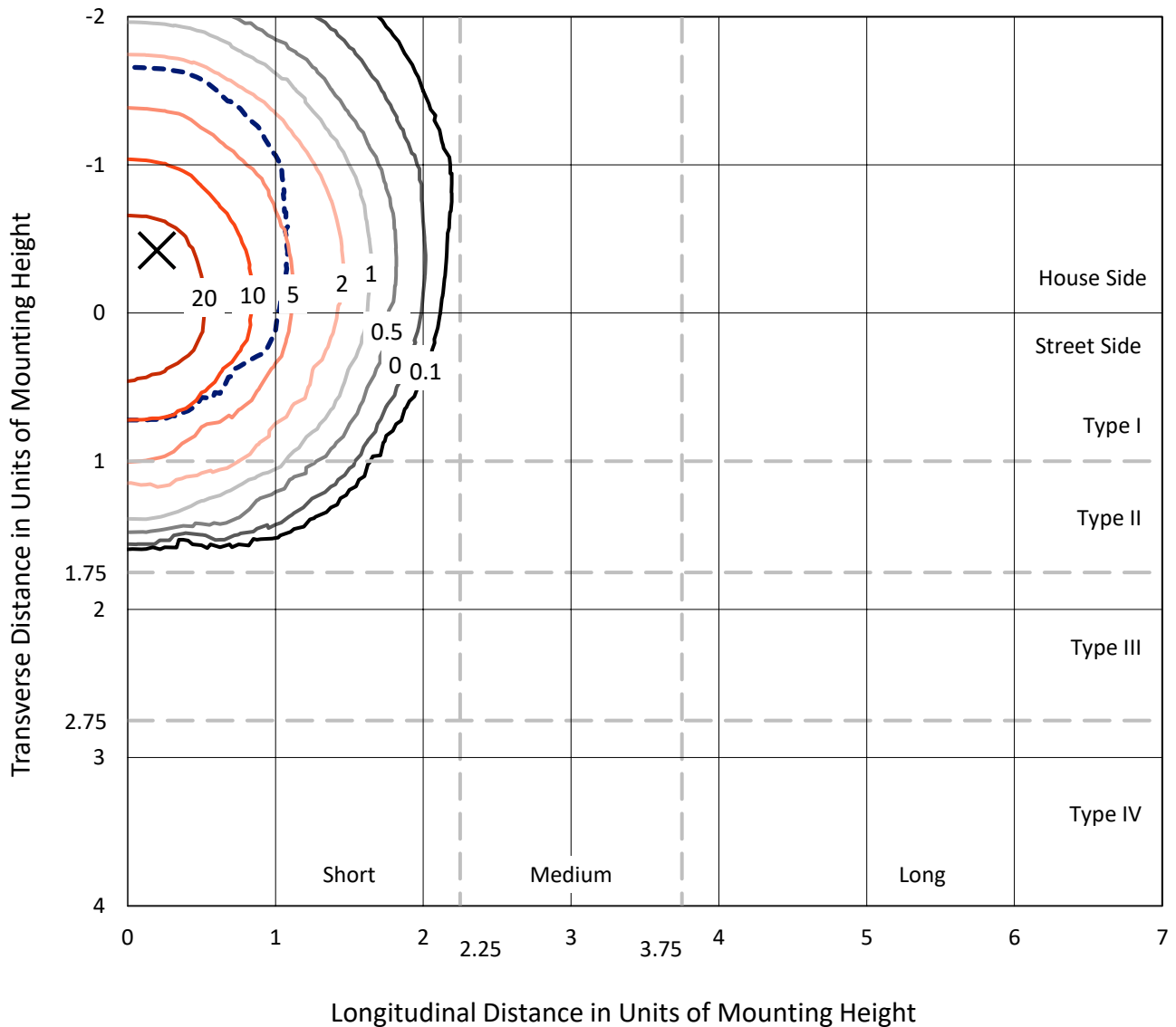
Input Watts (W): 464.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

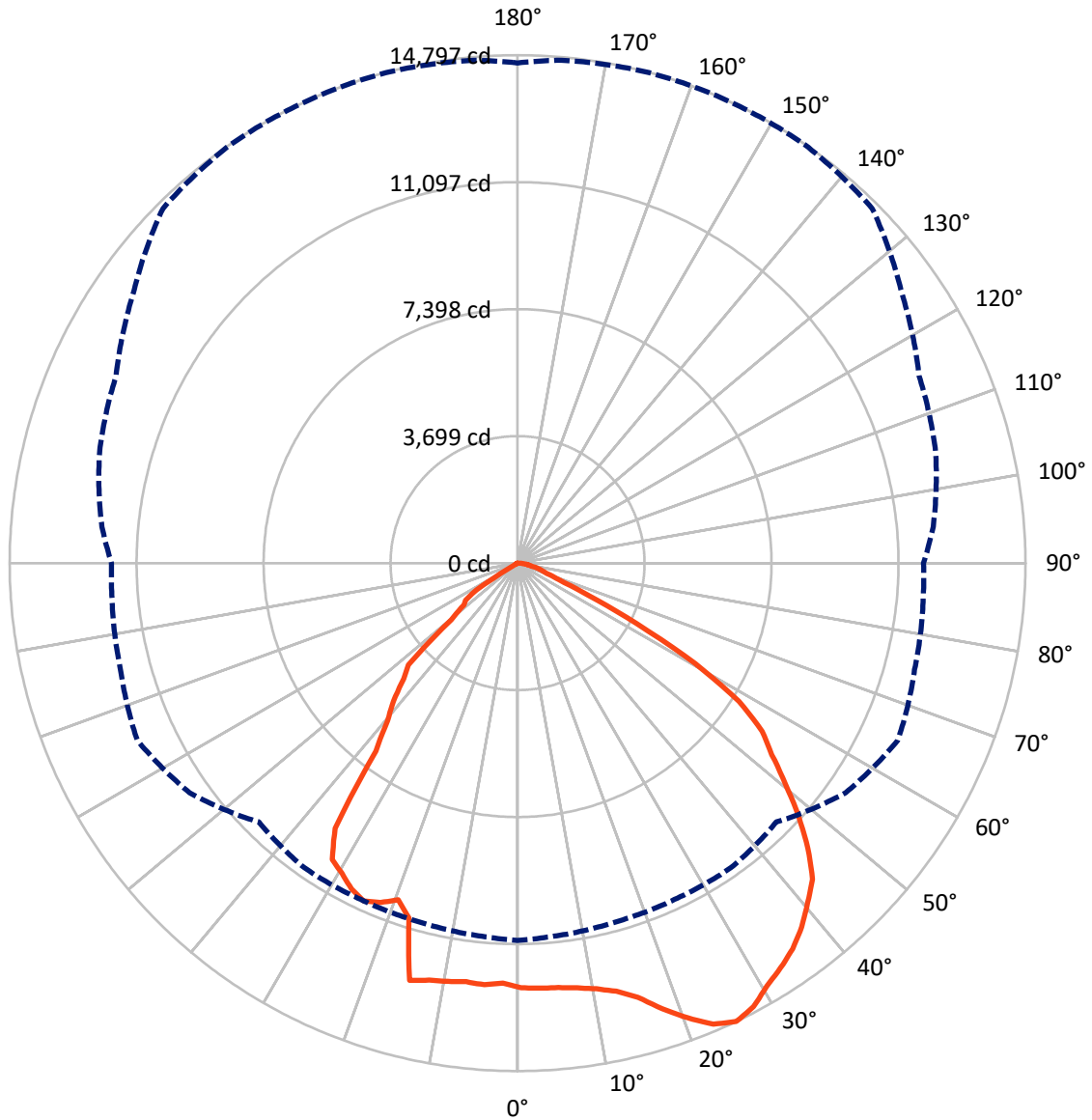
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.9 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
<b>House Side</b>	Lumens	17748.5	0.0	17748.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10919.6	0.0	10919.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	28668.0	0.0	28668.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1186.7	4.1
10°-20°	3623.6	12.6
20°-30°	5728.7	20.0
30°-40°	6471.0	22.6
40°-50°	6060.2	21.1
50°-60°	4178.1	14.6
60°-70°	1122.5	3.9
70°-80°	233.9	0.8
80°-90°	63.3	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°	28668.0	100.0
0°-180°	28668.0	100.0



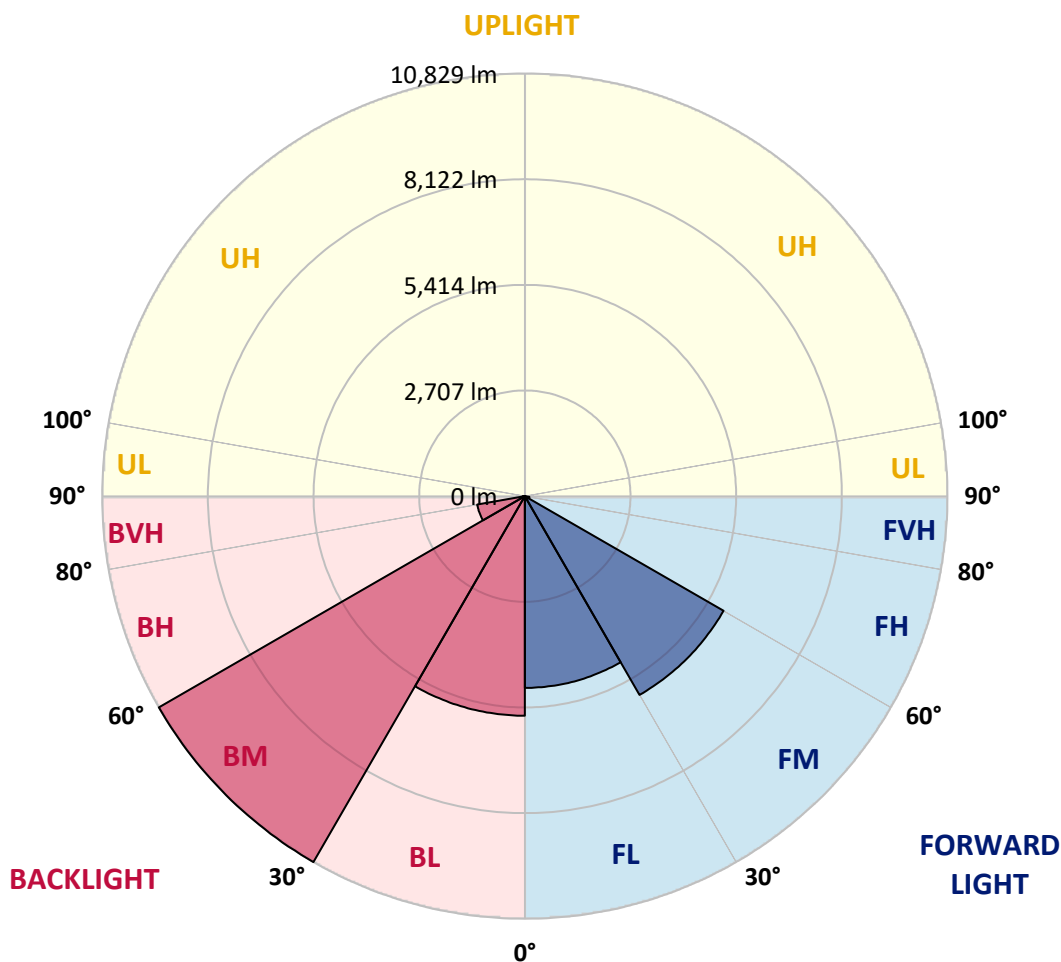
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4912.8	17.1			
FM (30°-60°)	5880.4	20.5			
FH (60°-80°)	117.8	0.4			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	5626.2	19.6	B5		
BM (30°-60°)	10828.9	37.8	B5		
BH (60°-80°)	1238.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	54.8	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°	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7
2.5°	12424.5	12344.5	12268.6	12243.3	12348.7	12462.4	12390.8	12395.0	12369.7	12416.1
5°	12517.2	12407.7	12357.1	12319.2	12336.0	12454.0	12352.9	12390.8	12348.7	12403.4
7.5°	12483.5	12407.7	12357.1	12285.5	12340.2	12479.3	12382.4	12386.6	12365.5	12416.1
10°	12462.4	12407.7	12344.5	12352.9	12416.1	12534.1	12458.2	12500.3	12470.9	12500.3
12.5°	12513.0	12454.0	12420.3	12420.3	12475.1	12609.9	12572.0	12609.9	12597.2	12622.5
15°	12036.9	12091.7	12411.9	12555.1	12664.7	12799.5	12782.6	12820.5	12829.0	12866.9
17.5°	10153.6	10098.9	10073.6	10810.9	12770.0	13187.1	13174.4	13170.2	13128.1	13098.6
20°	10402.2	10381.1	10351.7	10406.4	10625.5	13389.3	13473.6	12955.4	12803.7	12791.1
22.5°	10798.2	10764.5	10655.0	10659.2	10726.6	11640.9	13056.5	12584.6	12534.1	12504.6
25°	10992.0	10924.6	10836.2	10810.9	10831.9	10663.4	11661.9	12222.3	11973.7	11860.0
27.5°	10650.8	10655.0	10583.4	10650.8	10570.7	9812.4	9386.8	11514.5	11506.0	11455.5
30°	10393.8	10381.1	10296.9	10381.1	9829.2	8982.4	8801.2	10739.3	10650.8	10583.4
32.5°	9605.9	9614.4	9858.7	10187.3	9281.5	8611.6	8063.9	9593.3	10431.7	10393.8
35°	6871.6	6888.5	7756.4	9378.4	8451.5	7874.3	7832.2	8291.4	10086.2	10103.1
37.5°	6614.6	6614.6	6593.5	6859.0	7798.5	7575.2	7659.5	7613.1	9239.4	9281.5
40°	6429.2	6391.3	6361.8	5944.7	5422.3	7364.5	7423.5	7212.9	8733.8	8742.2
42.5°	6205.9	6163.8	6172.2	5401.2	4853.5	6842.1	6677.8	6395.5	7891.2	7899.6
45°	5797.3	5868.9	5919.4	4727.1	4685.0	4887.2	6159.6	5982.6	7322.4	7478.3
47.5°	2949.2	3012.4	4621.8	4347.9	4444.8	4343.7	5203.2	5207.4	6092.2	6610.4
50°	2675.3	2658.5	2662.7	2536.3	4103.6	3513.7	3762.3	4773.5	4878.8	5620.3
52.5°	2494.2	2490.0	2233.0	1984.4	2578.4	3092.4	2730.1	3454.8	3627.5	4760.8
55°	1845.3	1980.2	1761.1	1866.4	1613.6	2477.3	2464.7	3117.7	3176.7	3817.1
57.5°	16.9	21.1	50.6	1419.8	1116.5	1238.7	1702.1	2127.6	2233.0	2974.5
60°	4.2	8.4	21.1	42.1	724.7	762.6	1137.5	1230.2	1386.1	1773.7
62.5°	0.0	0.0	8.4	21.1	37.9	311.8	362.3	396.0	610.9	905.8
65°	0.0	0.0	4.2	12.6	21.1	50.6	88.5	185.4	265.4	328.6
67.5°	0.0	0.0	4.2	8.4	16.9	25.3	50.6	71.6	113.8	193.8
70°	0.0	0.0	4.2	8.4	12.6	21.1	33.7	50.6	67.4	96.9
72.5°	0.0	0.0	4.2	8.4	8.4	25.3	25.3	37.9	50.6	63.2
75°	0.0	0.0	4.2	4.2	8.4	16.9	25.3	29.5	33.7	50.6
77.5°	0.0	0.0	4.2	8.4	12.6	16.9	21.1	33.7	29.5	29.5
80°	0.0	0.0	4.2	12.6	12.6	21.1	25.3	33.7	21.1	21.1
82.5°	0.0	0.0	4.2	16.9	12.6	42.1	42.1	46.3	16.9	16.9
85°	0.0	0.0	12.6	8.4	25.3	42.1	37.9	25.3	21.1	12.6
87.5°	0.0	0.0	4.2	4.2	8.4	12.6	29.5	25.3	8.4	8.4
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°
12369.7	0°	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7	12369.7
12293.9	2.5°	12462.4	12407.7	12521.4	12508.8	12454.0	12428.7	12399.2	12374.0	12188.6
12302.3	5°	12466.6	12382.4	12521.4	12496.1	12487.7	12445.6	12420.3	12458.2	12289.7
12336.0	7.5°	12466.6	12382.4	12534.1	12542.5	12529.8	12496.1	12491.9	12517.2	12378.2
12395.0	10°	12550.9	12517.2	12643.6	12656.2	12639.4	12631.0	12609.9	12593.0	12445.6
12597.2	12.5°	12727.9	12660.4	12803.7	12841.6	12829.0	12850.0	12799.5	12824.8	12673.1
12803.7	15°	12942.7	12946.9	13056.5	13140.7	13132.3	13199.7	13123.9	13191.3	13081.8
13039.6	17.5°	13271.3	13317.7	13473.6	13600.0	13646.3	13696.9	13646.3	13667.4	13511.5
12778.4	20°	12925.9	13098.6	13848.5	14080.3	14177.2	14223.5	14139.3	14164.5	14008.6
12458.2	22.5°	12614.1	12837.4	13503.1	14227.7	14526.9	14619.5	14590.1	14585.8	14526.9
11826.2	25°	12154.9	12605.7	12904.8	13671.6	14611.1	14779.6	14796.5	14792.3	14703.8
11438.6	27.5°	11590.3	11691.4	12466.6	12934.3	14021.3	14661.7	14636.4	14514.2	14396.3
10633.9	30°	10869.9	11329.1	11678.8	12424.5	13258.7	14299.4	14299.4	14206.7	14084.5
10347.4	32.5°	10503.3	11097.4	11421.8	11691.4	12403.4	13894.9	14063.4	13966.5	13869.6
10124.1	35°	10309.5	10398.0	11156.4	11400.7	12003.2	13115.5	13798.0	13701.1	13629.5
9530.1	37.5°	9884.0	10090.4	10444.3	11097.4	11282.8	12479.3	13444.1	13393.5	13309.3
8759.1	40°	8936.0	9488.0	10031.5	10650.8	10844.6	11661.9	13014.3	13035.4	12921.7
7937.5	42.5°	8375.7	8750.7	9601.7	10018.8	10541.2	11135.3	12597.2	12631.0	12550.9
7520.4	45°	7718.4	8135.5	8733.8	9492.2	10204.2	10410.6	11860.0	12213.9	12146.4
6690.4	47.5°	7116.0	7453.0	8186.1	8952.9	9740.7	9711.3	11013.1	11678.8	11586.1
6054.3	50°	6260.7	6850.5	7196.0	7899.6	9075.1	9155.1	10111.5	11051.0	10975.2
5144.2	52.5°	5279.0	6020.6	6682.0	7326.6	8401.0	8590.6	9273.1	10410.6	10360.1
3930.8	55°	4613.4	5152.7	5898.4	6416.6	7583.6	8089.2	8645.3	9799.7	9774.5
3231.5	57.5°	3282.0	4322.7	4937.8	5662.4	6277.6	7191.8	7604.7	8556.9	8320.9
1790.6	60°	2224.5	2713.3	3463.2	4242.6	4655.5	5569.8	5953.1	6715.7	6652.5
1070.1	62.5°	1175.5	1626.3	2161.3	2553.2	2852.3	3741.3	3901.4	4722.9	4701.8
429.7	65°	518.2	686.7	1171.2	1373.5	1681.0	2093.9	2233.0	2527.9	2456.3
210.7	67.5°	269.6	408.7	661.5	813.1	1023.8	1179.7	1293.4	1386.1	1445.1
139.0	70°	164.3	299.1	408.7	564.6	703.6	830.0	918.5	1044.9	1120.7
71.6	72.5°	122.2	189.6	282.3	434.0	509.8	657.2	745.7	838.4	905.8
59.0	75°	67.4	126.4	227.5	341.3	408.7	535.1	615.1	678.3	699.4
33.7	77.5°	42.1	96.9	189.6	265.4	320.2	434.0	412.9	471.9	522.4
25.3	80°	29.5	71.6	147.5	219.1	223.3	278.1	328.6	379.2	412.9
16.9	82.5°	21.1	59.0	109.5	168.5	147.5	214.9	257.0	294.9	214.9
12.6	85°	16.9	42.1	54.8	101.1	84.3	151.7	130.6	126.4	84.3
8.4	87.5°	12.6	21.1	37.9	46.3	33.7	33.7	42.1	50.6	42.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
12369.7  
12062.2  
12146.4  
12218.1  
12323.4  
12538.3  
12900.6  
13376.7  
13899.1  
14337.3  
*14569.0*  
14303.6  
14038.1  
13789.6  
13528.3  
13225.0  
12896.4  
12542.5  
12154.9  
11653.5  
10987.8  
10393.8  
9803.9  
8295.6  
6656.7  
4706.1  
2426.8  
1445.1  
1124.9  
918.5  
686.7  
530.9  
417.1  
155.9  
84.3  
42.1  
0.0

(END OF REPORT)