

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: P636571

Luminaire Tested: **IFLD-S-SA3D-927-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636571  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-927-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11748.6 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

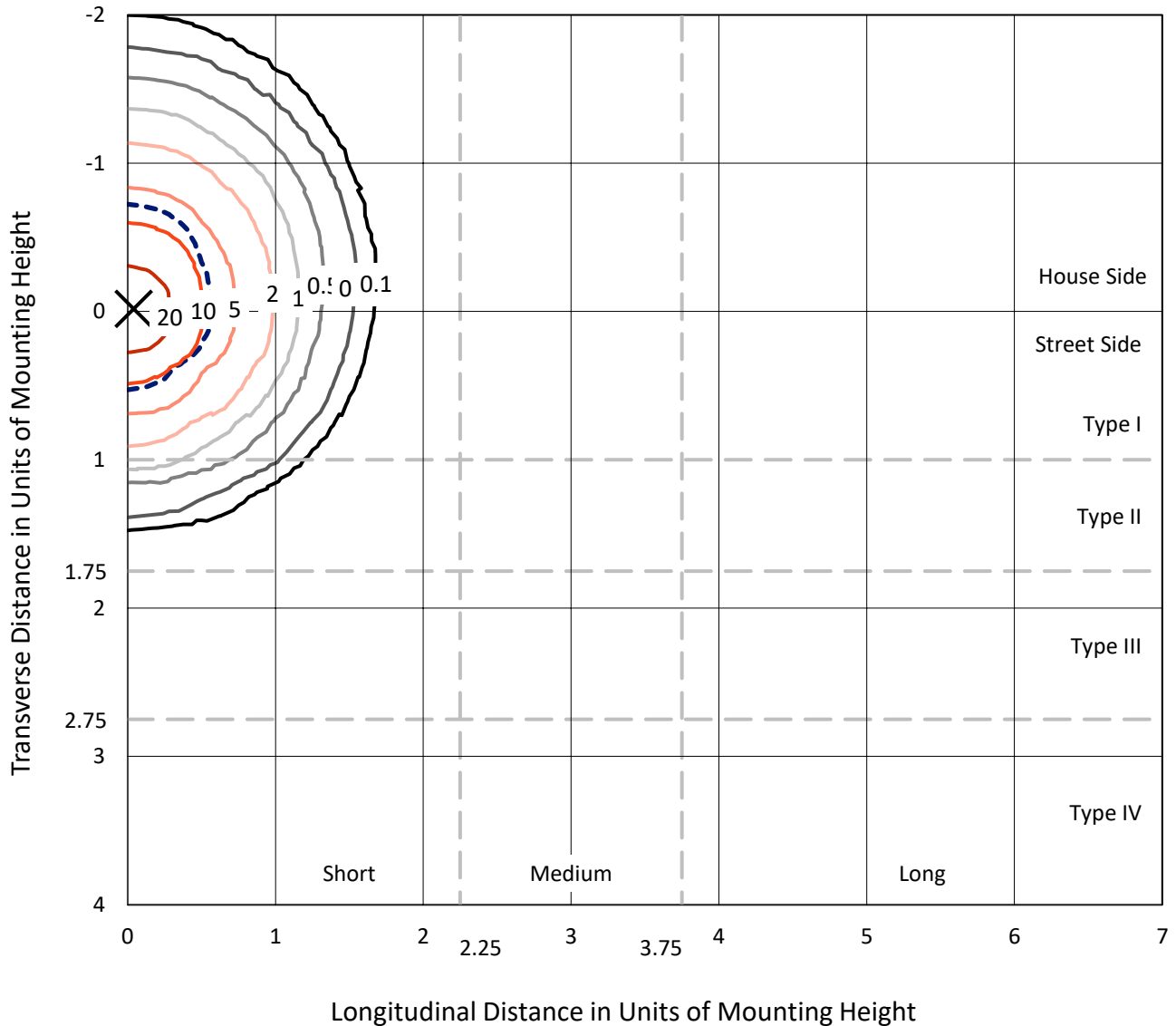
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

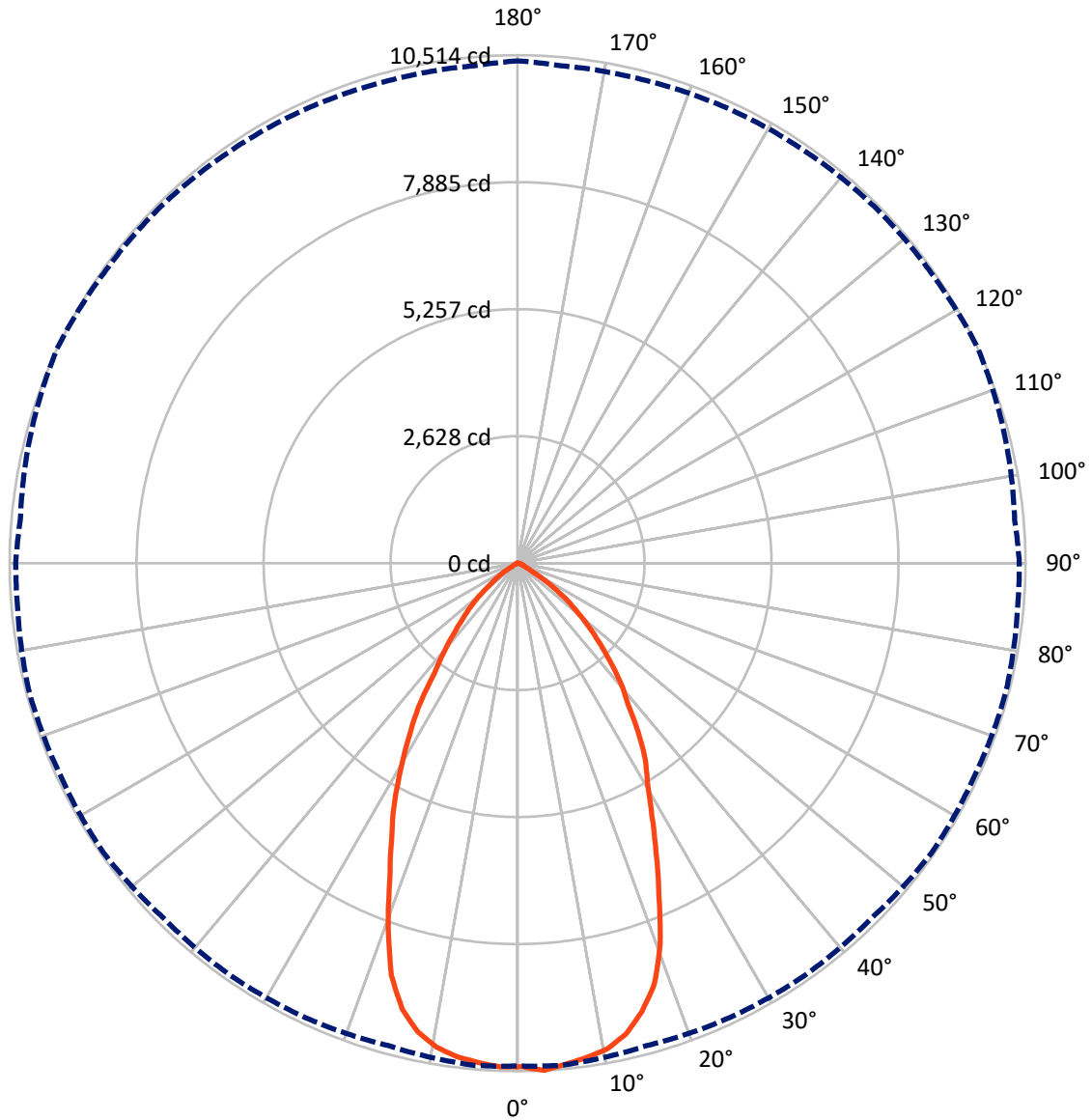
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6723.6	0.0	6723.6
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	5025.0	0.0	5025.0
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	11748.6	0.0	11748.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	981.8	8.4
10°-20°	2603.2	22.2
20°-30°	2977.6	25.3
30°-40°	2551.7	21.7
40°-50°	1687.3	14.4
50°-60°	736.3	6.3
60°-70°	144.7	1.2
70°-80°	52.2	0.4
80°-90°	13.9	0.1
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°	11748.6	100.0
0°-180°	11748.6	100.0



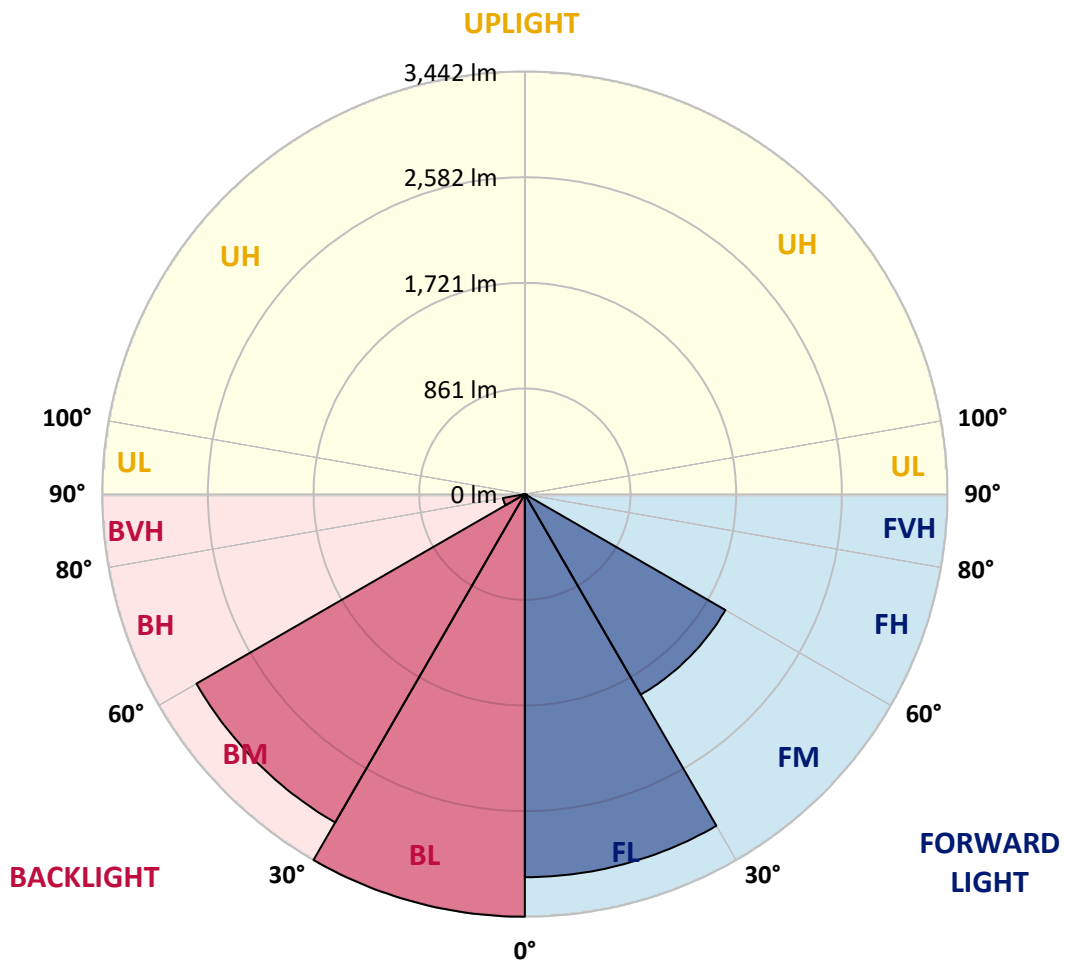
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3120.2	26.6			
FM	(30°-60°)	1886.6	16.1			
FH	(60°-80°)	16.0	0.1			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	3442.5	29.3	B4/5000		
BM	(30°-60°)	3088.7	26.3	B3/5000		
BH	(60°-80°)	180.9	1.5	B1/500		G1/500
BVH	(80°-90°)	11.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0
2.5°	10409.0	10434.0	10339.1	10381.5	10399.0	10376.5	10458.9	10434.0	10453.9	10391.5
5°	10409.0	10434.0	10324.1	10344.1	10349.1	10306.6	10396.5	10366.5	10369.0	10304.1
7.5°	10344.1	10374.0	10274.1	10289.1	10291.6	10256.7	10334.1	10291.6	10276.6	10209.2
10°	10169.2	10186.7	10096.8	10134.3	10169.2	10136.8	10204.2	10156.8	10156.8	10096.8
12.5°	9892.0	9924.5	9824.6	9869.6	9899.5	9862.1	9939.5	9922.0	9924.5	9864.6
15°	9387.6	9275.2	9395.1	9485.0	9487.5	9480.0	9552.4	9534.9	9547.4	9457.5
17.5°	6935.2	6907.7	7047.5	8108.9	8898.1	9005.5	9018.0	8923.1	8880.6	8793.2
20°	6425.7	6445.7	6415.7	6420.7	7042.6	8333.7	8256.3	8021.5	7914.1	7826.7
22.5°	6053.6	6021.1	6001.2	5988.7	6006.2	6847.8	7404.7	7050.0	6992.6	6950.2
25°	5649.0	5634.0	5609.1	5604.1	5594.1	5451.7	6253.4	6285.9	6193.5	6141.0
27.5°	5271.9	5261.9	5234.5	5232.0	5117.1	4772.5	4859.9	5631.5	5606.6	5586.6
30°	4869.9	4849.9	4834.9	4834.9	4487.8	4133.1	3990.8	4909.8	4909.8	4892.3
32.5°	4432.8	4415.3	4420.3	4360.4	3945.8	3621.2	3396.4	4238.0	4500.2	4485.3
35°	2709.6	2704.6	3211.6	3878.4	3391.4	3096.7	3081.7	3626.2	4008.3	4048.2
37.5°	2412.4	2397.5	2405.0	2447.4	2904.4	2787.1	2782.1	2874.5	3411.4	3431.4
40°	2165.2	2155.2	2147.7	1995.4	1850.5	2487.4	2469.9	2410.0	2914.4	2949.4
42.5°	1930.5	1920.5	1920.5	1705.7	1470.9	2045.3	2052.8	1982.9	2457.4	2469.9
45°	1688.2	1680.7	1638.3	1361.1	1293.6	1358.6	1700.7	1620.8	1950.4	2080.3
47.5°	796.7	791.7	1146.3	1131.3	1126.3	1086.4	1298.6	1343.6	1548.4	1678.2
50°	639.3	634.3	604.4	531.9	926.5	824.1	936.5	1033.9	1098.8	1218.7
52.5°	529.4	524.4	462.0	409.6	514.5	601.9	559.4	691.8	689.3	819.1
55°	347.1	322.2	354.6	334.6	269.7	437.0	427.0	524.4	512.0	624.3
57.5°	7.5	7.5	17.5	189.8	169.8	184.8	244.7	299.7	337.1	369.6
60°	2.5	2.5	5.0	10.0	69.9	77.4	94.9	109.9	154.8	192.3
62.5°	0.0	0.0	2.5	5.0	10.0	40.0	45.0	52.4	72.4	99.9
65°	0.0	0.0	0.0	2.5	5.0	10.0	15.0	32.5	45.0	57.4
67.5°	0.0	0.0	0.0	2.5	2.5	5.0	10.0	15.0	20.0	40.0
70°	0.0	0.0	0.0	2.5	2.5	5.0	7.5	10.0	15.0	20.0
72.5°	0.0	0.0	0.0	2.5	2.5	7.5	5.0	7.5	10.0	12.5
75°	0.0	0.0	0.0	2.5	2.5	2.5	5.0	7.5	7.5	10.0
77.5°	0.0	0.0	0.0	2.5	5.0	5.0	5.0	5.0	5.0	7.5
80°	0.0	0.0	0.0	2.5	2.5	5.0	7.5	10.0	5.0	5.0
82.5°	0.0	0.0	0.0	5.0	2.5	10.0	15.0	12.5	5.0	2.5
85°	0.0	0.0	0.0	2.5	10.0	12.5	12.5	7.5	2.5	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	7.5	7.5	2.5	2.5
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°
10424.0	0°	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0	10424.0
10386.5	2.5°	10329.1	10426.5	10513.9	10458.9	10439.0	10399.0	10369.0	10336.6	10334.1
10296.6	5°	10239.2	10331.6	10416.5	10351.6	10356.6	10336.6	10316.6	10309.1	10314.1
10204.2	7.5°	10161.8	10239.2	10331.6	10276.6	10291.6	10279.1	10269.1	10254.2	10276.6
10084.3	10°	10044.4	10114.3	10221.7	10169.2	10161.8	10149.3	10139.3	10111.8	10124.3
9867.1	12.5°	9787.2	9874.6	9996.9	9937.0	9957.0	9922.0	9907.0	9889.5	9892.0
9490.0	15°	9437.5	9505.0	9629.8	9582.4	9597.4	9574.9	9574.9	9574.9	9592.4
8805.7	17.5°	8828.2	8965.5	9162.8	9102.9	9125.4	9130.3	9125.4	9142.8	9165.3
7831.7	20°	7836.7	8071.5	8431.1	8548.5	8595.9	8598.4	8563.4	8605.9	8650.9
6920.2	22.5°	6925.2	7172.4	7489.6	7811.7	8011.5	8001.5	8006.5	8034.0	8081.5
6108.5	25°	6136.0	6373.3	6660.5	6947.7	7384.7	7474.6	7477.1	7502.1	7539.5
5554.1	27.5°	5566.6	5659.0	5921.2	6210.9	6680.4	6967.6	6952.6	6975.1	7015.1
4859.9	30°	4879.8	5234.5	5294.4	5471.7	5876.3	6403.2	6405.7	6430.7	6470.7
4450.3	32.5°	4437.8	4672.6	4857.4	4862.4	5207.0	5748.9	5856.3	5881.3	5908.8
4025.7	35°	4023.2	4050.7	4300.5	4370.4	4570.2	5107.1	5296.9	5311.9	5356.8
3423.9	37.5°	3481.3	3643.6	3713.6	3963.3	3973.3	4407.8	4784.9	4770.0	4804.9
2946.9	40°	2984.3	3139.2	3316.5	3498.8	3523.8	3848.4	4265.5	4280.5	4295.5
2444.9	42.5°	2464.9	2662.2	2844.5	2966.9	3136.7	3324.0	3721.1	3791.0	3826.0
2095.3	45°	2132.7	2187.7	2405.0	2584.8	2757.1	2844.5	3216.6	3344.0	3366.4
1658.2	47.5°	1680.7	1865.5	2012.9	2165.2	2380.0	2457.4	2727.1	2904.4	2921.9
1231.2	50°	1298.6	1431.0	1633.3	1770.6	2020.4	2062.8	2247.6	2477.4	2499.9
824.1	52.5°	929.0	1108.8	1306.1	1438.5	1678.2	1733.2	1870.5	2090.3	2105.3
631.8	55°	666.8	784.2	946.5	1136.3	1311.1	1433.5	1528.4	1738.2	1758.1
414.6	57.5°	454.5	564.4	631.8	821.6	926.5	1058.9	1136.3	1296.1	1311.1
197.3	60°	217.3	269.7	322.2	417.1	484.5	596.9	646.8	711.7	729.2
119.9	62.5°	139.9	164.8	209.8	249.7	314.7	384.6	404.6	459.5	479.5
74.9	65°	92.4	117.4	164.8	174.8	239.7	294.7	319.7	359.6	382.1
45.0	67.5°	52.4	82.4	122.4	144.8	189.8	242.2	269.7	304.7	324.7
30.0	70°	35.0	67.4	97.4	119.9	149.8	194.8	229.8	259.7	272.2
15.0	72.5°	20.0	42.5	67.4	94.9	119.9	162.3	194.8	219.8	144.8
10.0	75°	12.5	32.5	57.4	79.9	99.9	129.9	157.3	154.8	64.9
7.5	77.5°	10.0	25.0	49.9	67.4	82.4	89.9	112.4	127.4	49.9
5.0	80°	7.5	20.0	45.0	57.4	32.5	64.9	87.4	94.9	35.0
5.0	82.5°	5.0	12.5	37.5	40.0	22.5	47.4	69.9	62.4	25.0
2.5	85°	2.5	7.5	12.5	22.5	20.0	22.5	17.5	25.0	17.5
2.5	87.5°	2.5	5.0	10.0	10.0	10.0	7.5	10.0	10.0	10.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
10424.0
10394.0
10376.5
10339.1
10184.2
9964.5
9599.9
9240.2
8680.8
8088.9
7604.5
7052.5
6540.6
5971.2
5404.3
4847.4
4342.9
3875.9
3421.4
2964.4
2532.3
2132.7
1775.6
1341.1
749.2
484.5
382.1
322.2
269.7
117.4
64.9
49.9
37.5
25.0
17.5
10.0
0.0

(END OF REPORT)