

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: P637993

Luminaire Tested: **IFLD-S-SA3E-827-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637993  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-827-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16719.3 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G1

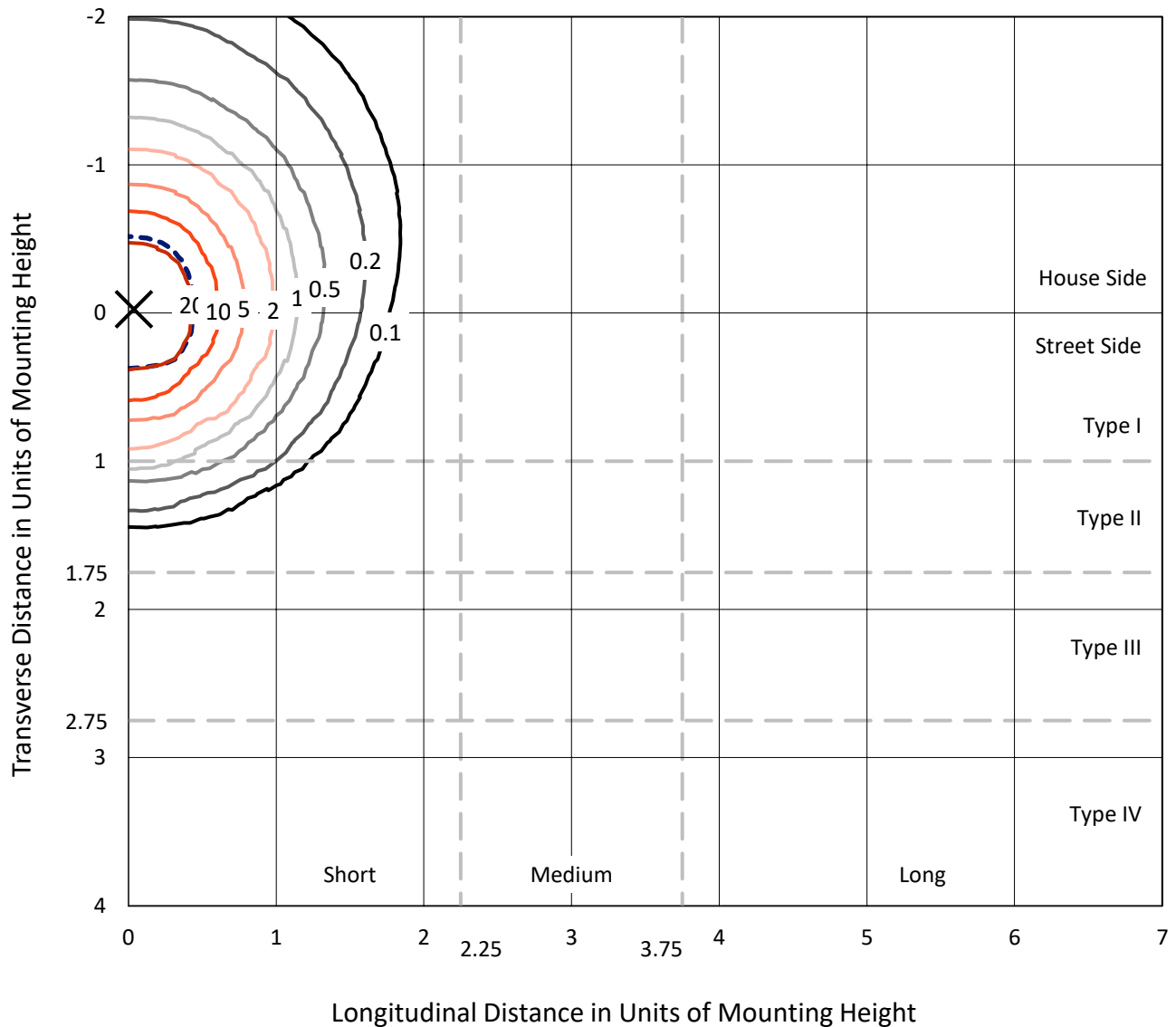
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

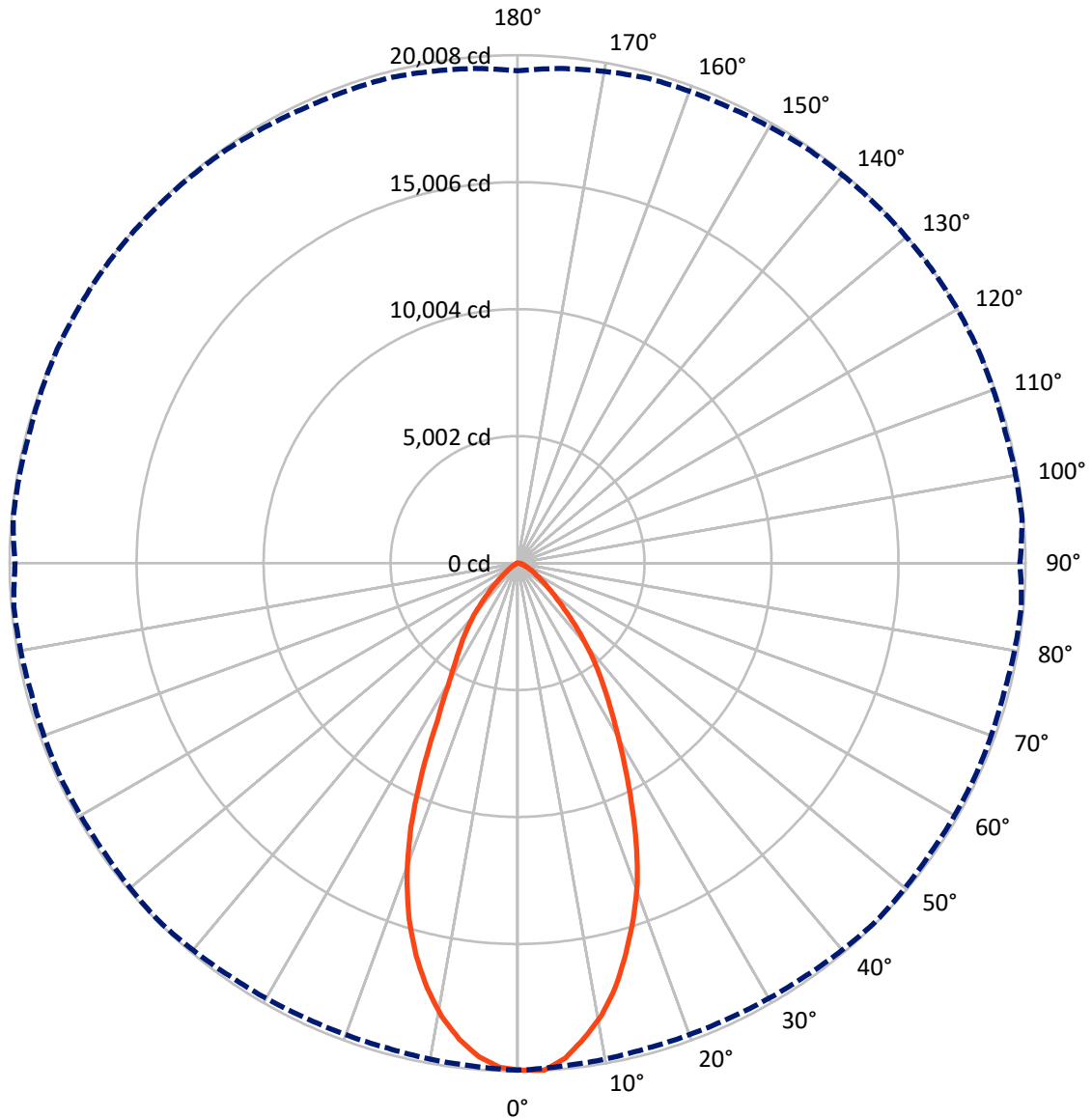
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9487.2	0.0	9487.2
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	7232.1	0.0	7232.1
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	16719.3	0.0	16719.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1813.9	10.8
10°-20°	4323.8	25.9
20°-30°	4403.7	26.3
30°-40°	3283.8	19.6
40°-50°	1715.6	10.3
50°-60°	721.6	4.3
60°-70°	294.7	1.8
70°-80°	124.0	0.7
80°-90°	38.2	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°	16719.3	100.0
0°-180°	16719.3	100.0



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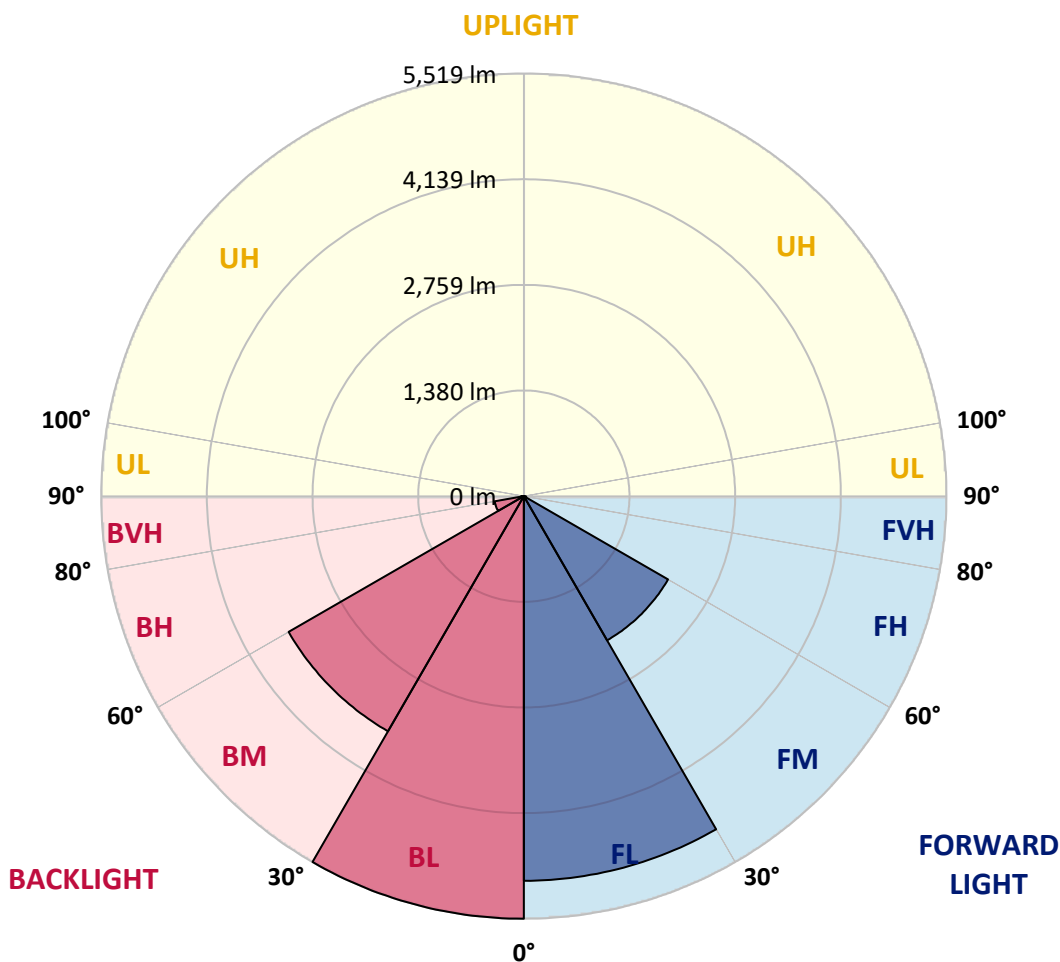
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5022.7	30.0			
FM (30°-60°)	2174.4	13.0			
FH (60°-80°)	31.4	0.2			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	5518.7	33.0	B5		
BM (30°-60°)	3546.6	21.2	B3/5000		
BH (60°-80°)	387.3	2.3	B1/500		G1/500
BVH (80°-90°)	34.7	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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5
2.5°	19977.7	19896.1	19780.1	19769.3	19829.5	19960.5	19876.7	19881.0	19829.5	19917.5
5°	19664.1	19586.8	19507.3	19402.1	19490.1	19546.0	19503.0	19455.8	19389.2	19475.1
7.5°	19071.3	19028.4	18910.3	18863.0	18916.7	18979.0	18886.6	18873.8	18781.4	18893.1
10°	18165.0	18147.8	18031.9	18004.0	18051.2	18145.7	18104.9	18096.3	18038.3	18027.6
12.5°	17224.3	17157.8	17013.9	17005.3	17076.2	17217.9	17108.4	17003.1	17035.4	17063.3
15°	14801.8	14730.9	15087.4	15648.0	15942.2	15931.4	15963.7	15837.0	15798.3	15811.2
17.5°	11767.1	11646.8	11775.7	12643.4	14041.5	14853.3	14630.0	14357.2	14211.2	14114.5
20°	10156.4	10162.8	10139.2	10362.5	11234.5	13085.8	13032.1	12505.9	12314.8	12235.3
22.5°	9177.0	9140.5	9089.0	9159.8	9393.9	10480.7	11208.7	10725.5	10658.9	10570.9
25°	8217.0	8217.0	8154.7	8225.6	8292.2	8307.2	9037.4	9235.0	9106.1	9106.1
27.5°	7385.9	7342.9	7315.0	7347.2	7259.1	6836.0	6928.4	7940.0	7851.9	7798.2
30°	6561.1	6548.3	6501.0	6544.0	6217.5	5740.7	5547.4	6700.7	6793.1	6773.8
32.5°	5416.4	5468.0	5678.5	5745.0	5186.6	4802.2	4617.5	5562.5	5931.9	5916.8
35°	3681.1	3724.1	3964.6	4759.2	4299.6	4024.7	3971.1	4424.2	5032.0	5090.0
37.5°	2931.6	2925.1	2993.9	3135.6	3455.6	3389.0	3374.0	3492.1	4104.2	4130.0
40°	2416.1	2407.5	2405.4	2289.4	2210.0	2817.7	2776.9	2706.1	3236.5	3288.1
42.5°	1947.9	1956.5	1963.0	1709.5	1593.6	2173.4	2149.8	2076.8	2538.6	2598.7
45°	1529.1	1527.0	1539.9	1273.6	1241.4	1389.5	1606.5	1548.5	1915.7	1980.2
47.5°	792.5	820.4	994.4	985.8	1000.8	985.8	1215.6	1200.6	1441.1	1544.2
50°	532.6	541.2	556.2	558.4	788.2	725.9	824.7	934.2	1009.4	1168.3
52.5°	412.4	418.8	380.1	356.5	483.2	536.9	541.2	646.5	704.4	865.5
55°	229.8	257.7	277.1	279.2	266.3	397.3	395.2	478.9	524.0	631.4
57.5°	30.1	36.5	55.8	180.4	178.3	221.2	277.1	347.9	373.7	461.8
60°	2.1	4.3	6.4	27.9	118.1	128.9	189.0	216.9	259.9	324.3
62.5°	0.0	0.0	2.1	6.4	23.6	75.2	98.8	113.8	152.5	212.6
65°	0.0	0.0	2.1	4.3	8.6	27.9	38.7	62.3	90.2	131.0
67.5°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	27.9	47.2	79.5
70°	0.0	0.0	2.1	4.3	6.4	8.6	12.9	17.2	25.8	43.0
72.5°	0.0	0.0	2.1	2.1	4.3	10.7	10.7	12.9	17.2	23.6
75°	0.0	0.0	2.1	4.3	6.4	10.7	10.7	10.7	12.9	15.0
77.5°	0.0	0.0	2.1	4.3	6.4	10.7	8.6	10.7	10.7	10.7
80°	0.0	0.0	2.1	4.3	6.4	10.7	12.9	10.7	8.6	8.6
82.5°	0.0	0.0	2.1	6.4	6.4	15.0	15.0	15.0	6.4	6.4
85°	0.0	0.0	4.3	6.4	10.7	17.2	17.2	12.9	6.4	4.3
87.5°	0.0	0.0	2.1	4.3	4.3	8.6	12.9	10.7	4.3	2.1
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°
19975.5	0°	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5	19975.5
19788.7	2.5°	19947.6	19893.9	19994.8	20007.7	19964.8	19911.1	19786.5	19775.8	19558.9
19350.5	5°	19569.6	19481.6	19546.0	19588.9	19573.9	19515.9	19464.4	19417.1	19221.7
18639.7	7.5°	18865.2	18833.0	18863.0	18895.2	18957.5	18895.2	18873.8	18824.4	18631.1
17939.5	10°	18083.4	18023.3	18137.1	18122.1	18104.9	18087.7	17997.5	18006.1	17778.4
16986.0	12.5°	17123.4	17022.5	17132.0	17144.9	17132.0	17071.9	16970.9	17013.9	16805.6
15697.4	15°	15832.7	15821.9	15901.4	15952.9	15989.4	15925.0	15890.6	15912.1	15787.6
14039.3	17.5°	14247.7	14387.3	14647.1	14735.2	14737.3	14803.9	14784.6	14758.8	14666.5
12203.1	20°	12383.5	12652.0	13051.4	13461.6	13579.7	13523.9	13498.1	13545.4	13407.9
10478.5	22.5°	10663.2	10893.0	11356.9	11956.1	12301.9	12336.2	12329.8	12289.0	12235.3
9097.5	25°	9202.8	9406.8	9851.4	10399.0	11062.7	11161.5	11165.8	11152.9	11105.6
7845.5	27.5°	7970.0	8217.0	8461.8	8951.5	9658.1	10066.2	10014.6	9999.6	9982.4
6788.8	30°	6853.2	7164.6	7394.4	7699.4	8333.0	8884.9	8938.6	8912.8	8872.0
5914.7	32.5°	5968.4	6153.1	6445.2	6651.3	7106.7	7731.6	7937.8	7918.5	7882.0
5126.5	35°	5199.5	5272.5	5502.3	5732.1	6035.0	6640.6	6945.6	6902.6	6896.2
4177.2	37.5°	4282.5	4527.3	4654.0	4886.0	5098.6	5568.9	5989.9	5970.5	5972.7
3359.0	40°	3457.8	3599.5	3850.8	4046.2	4241.7	4585.3	5053.5	5066.4	5062.1
2600.8	42.5°	2654.5	2792.0	3056.1	3268.8	3442.7	3655.3	4102.1	4117.1	4136.4
2025.3	45°	2072.5	2160.6	2353.9	2575.1	2759.8	2888.6	3228.0	3324.6	3326.7
1570.0	47.5°	1608.6	1709.5	1847.0	2059.6	2240.0	2332.4	2579.4	2710.4	2703.9
1204.8	50°	1262.8	1355.2	1466.9	1634.4	1829.8	1902.8	2085.4	2214.3	2207.8
908.5	52.5°	966.5	1084.6	1183.4	1312.2	1503.4	1565.7	1696.7	1844.9	1823.4
665.8	55°	732.4	852.6	945.0	1052.4	1226.3	1305.8	1396.0	1514.1	1518.4
515.4	57.5°	552.0	676.5	760.3	869.8	1000.8	1088.9	1157.6	1284.3	1282.2
352.2	60°	395.2	502.6	603.5	717.3	818.3	919.2	966.5	1086.7	1091.0
249.1	62.5°	285.6	386.6	483.2	582.0	672.2	771.0	814.0	908.5	921.4
163.2	65°	199.7	270.6	382.3	457.5	558.4	631.4	687.3	768.9	783.9
96.6	67.5°	128.9	195.4	302.8	369.4	461.8	524.0	582.0	646.5	665.8
62.3	70°	77.3	148.2	225.5	296.4	380.1	436.0	491.8	547.7	558.4
30.1	72.5°	49.4	103.1	163.2	240.5	305.0	365.1	414.5	455.3	423.1
19.3	75°	27.9	70.9	128.9	189.0	247.0	305.0	345.8	367.3	294.2
12.9	77.5°	17.2	51.5	105.2	152.5	191.1	244.8	270.6	283.5	210.5
8.6	80°	10.7	38.7	88.1	124.6	124.6	180.4	210.5	221.2	152.5
6.4	82.5°	8.6	27.9	68.7	94.5	83.8	135.3	165.4	167.5	107.4
4.3	85°	6.4	21.5	43.0	62.3	58.0	94.5	96.6	107.4	70.9
4.3	87.5°	4.3	12.9	25.8	36.5	32.2	45.1	51.5	58.0	38.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
19975.5
19389.2
19064.9
18590.3
17701.1
16745.4
15637.2
14529.0
13309.1
12132.2
10946.7
9881.5
8820.5
7785.3
6825.3
5904.0
4986.9
4072.0
3270.9
2680.3
2207.8
1825.5
1518.4
1277.9
1080.3
917.1
779.6
663.6
549.8
393.0
279.2
197.6
141.7
98.8
64.4
34.4
0.0

(END OF REPORT)