

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: P638045

Luminaire Tested: **IFLD-S-SA2D-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638045  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8861 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

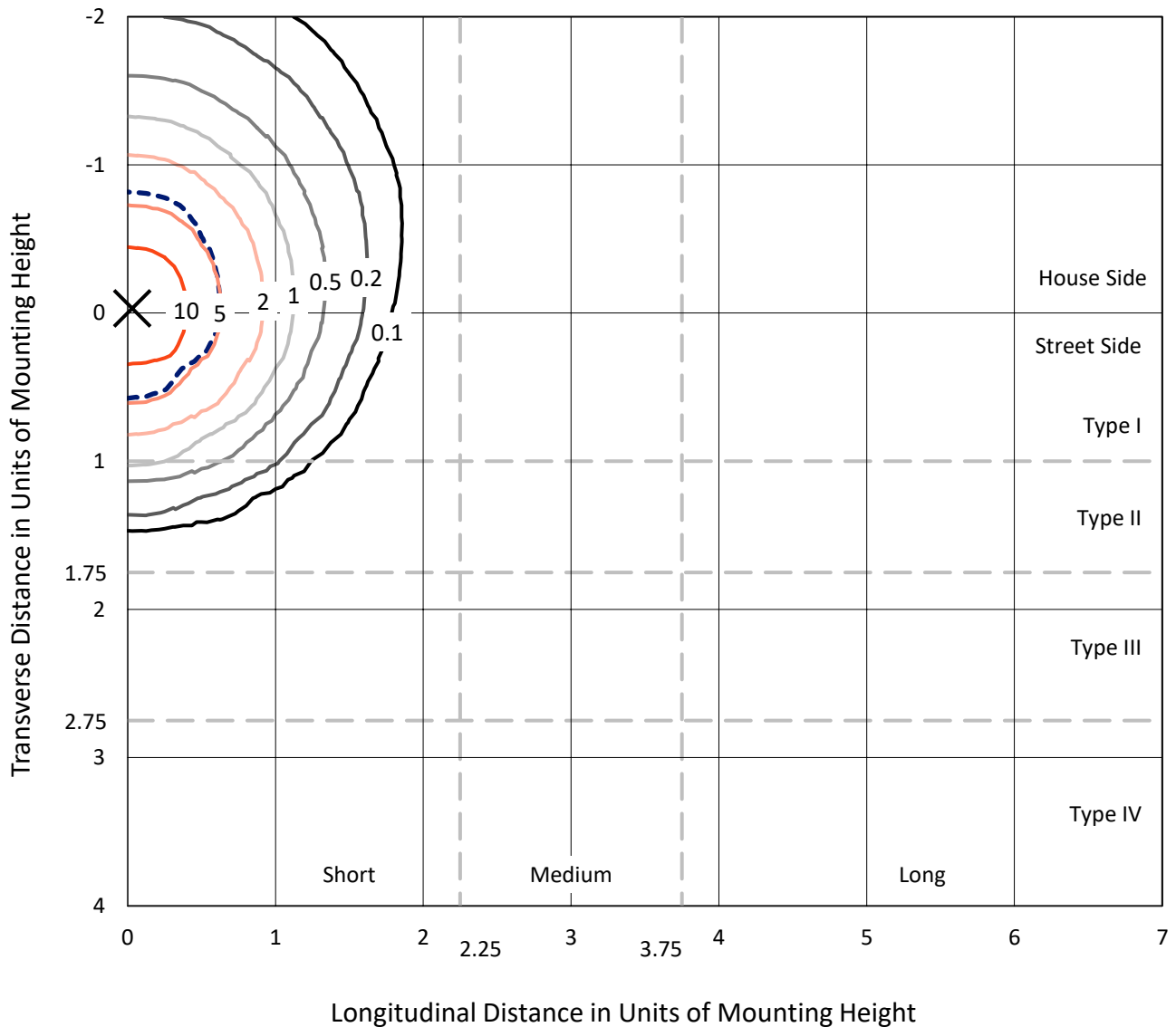
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

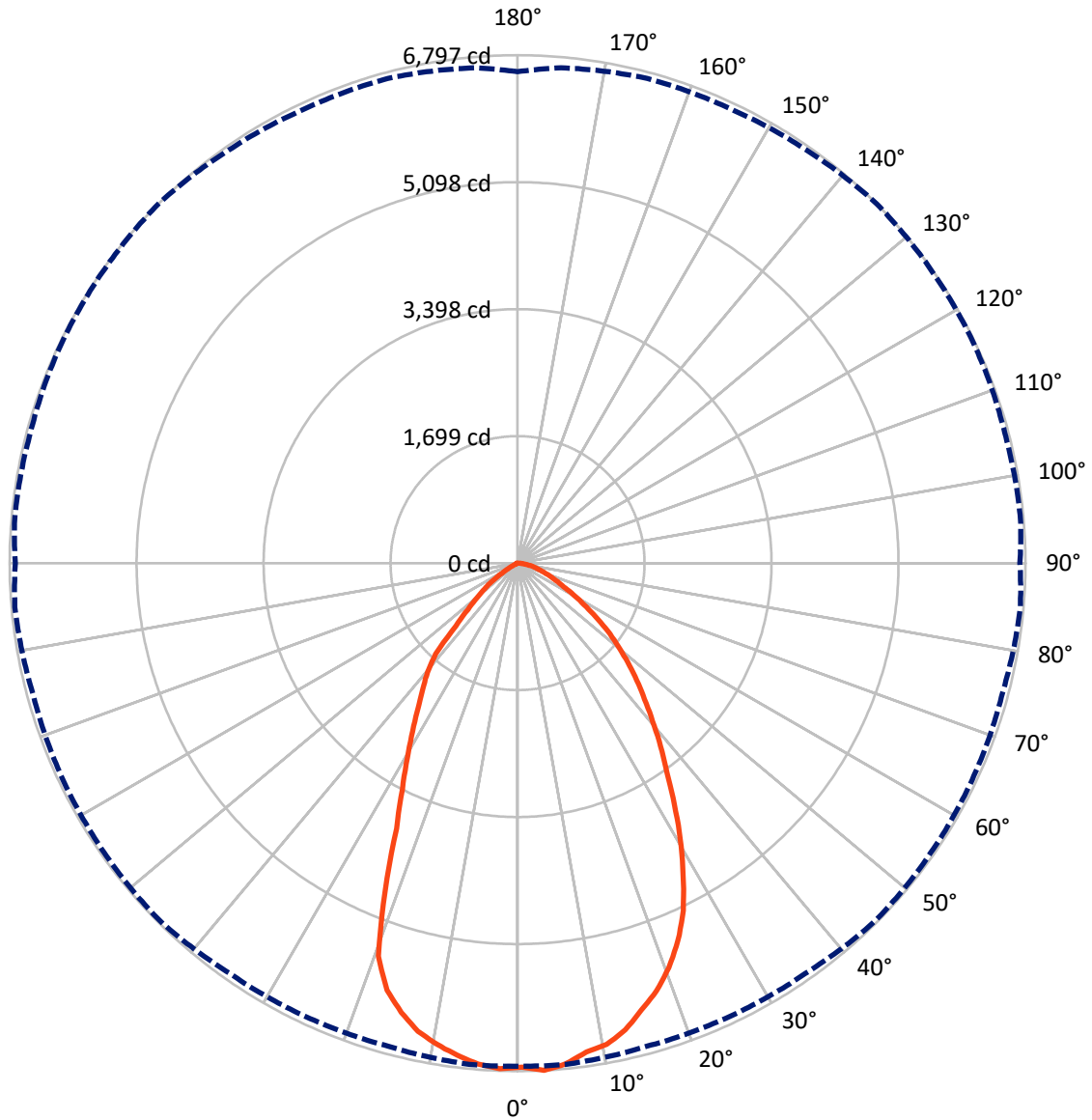
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.9 fc  
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-S-SA2D-722-U-77-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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CATALOG NUMBER: IFLD-S-SA2D-722-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5248.0	0.0	5248.0
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3613.1	0.0	3613.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	8861.0	0.0	8861.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	632.4	7.1
10°-20°	1695.8	19.1
20°-30°	2068.2	23.3
30°-40°	1888.2	21.3
40°-50°	1364.6	15.4
50°-60°	745.1	8.4
60°-70°	308.1	3.5
70°-80°	124.8	1.4
80°-90°	33.9	0.4
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°	8861.0	100.0
0°-180°	8861.0	100.0



REPORT NUMBER: P638045

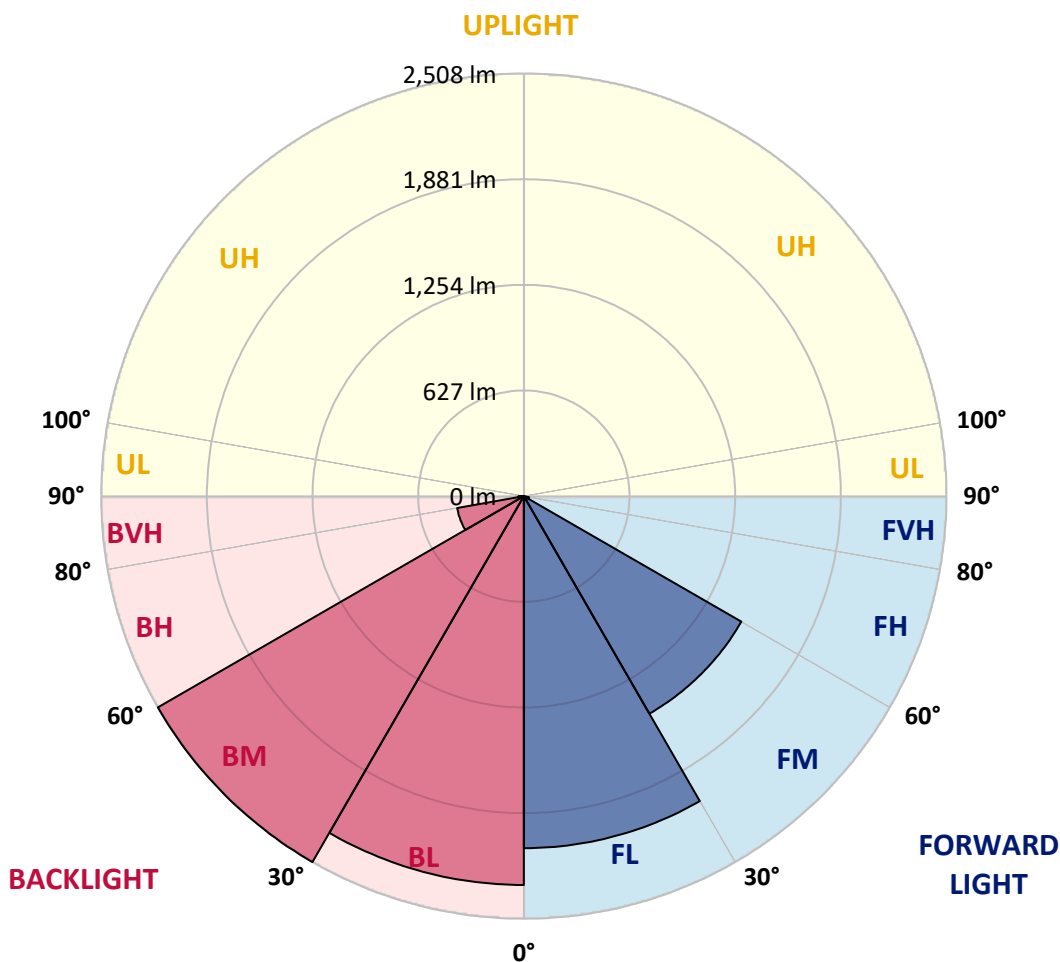
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2088.9	23.6			
FM (30°-60°)	1490.3	16.8			
FH (60°-80°)	31.2	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2307.5	26.0	B3/2500		
BM (30°-60°)	2507.6	28.3	B3/5000		
BH (60°-80°)	401.6	4.5	B1/500		G1/500
BVH (80°-90°)	31.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2
2.5°	6730.8	6739.5	6692.1	6697.1	6705.8	6769.4	6753.2	6738.2	6717.0	6753.2
5°	6722.0	6727.0	6677.1	6659.6	6667.1	6724.5	6672.1	6672.1	6667.1	6660.9
7.5°	6654.6	6657.1	6618.5	6587.3	6607.2	6633.4	6594.7	6613.5	6586.0	6607.2
10°	6553.6	6537.3	6491.2	6482.4	6504.9	6529.9	6503.7	6521.1	6496.2	6512.4
12.5°	6405.1	6380.1	6342.7	6331.5	6370.1	6403.8	6382.6	6372.6	6340.2	6380.1
15°	5832.3	5813.6	5898.5	6047.0	6180.5	6209.2	6186.7	6196.7	6129.3	6140.5
17.5°	4800.4	4765.4	4856.5	5208.4	5710.0	5974.6	5954.6	5889.7	5789.9	5812.4
20°	4362.4	4352.4	4342.4	4426.0	4776.7	5579.0	5606.5	5441.8	5299.5	5268.3
22.5°	4115.3	4111.6	4101.6	4120.3	4212.7	4728.0	5042.5	4890.2	4795.4	4786.7
25°	3889.5	3883.2	3853.3	3877.0	3877.0	3906.9	4310.0	4402.3	4318.7	4308.7
27.5°	3659.9	3648.6	3643.6	3654.9	3597.5	3395.3	3497.6	3948.1	3904.4	3906.9
30°	3411.5	3407.8	3394.1	3417.8	3240.6	2989.8	2924.9	3536.3	3545.1	3542.6
32.5°	3042.2	3058.4	3120.8	3147.0	2855.0	2647.9	2539.3	3059.7	3238.1	3234.4
35°	2209.9	2209.9	2413.3	2791.4	2501.9	2345.9	2287.3	2594.2	2934.9	2947.4
37.5°	1816.8	1823.1	1863.0	2035.2	2158.7	2103.8	2086.4	2183.7	2545.6	2565.5
40°	1634.6	1634.6	1634.6	1563.5	1559.8	1895.4	1885.5	1854.3	2198.7	2242.3
42.5°	1468.7	1472.4	1474.9	1295.2	1195.4	1638.4	1615.9	1568.5	1888.0	1939.1
45°	1297.7	1304.0	1311.5	1083.1	1039.4	1179.2	1367.6	1315.2	1581.0	1647.1
47.5°	792.4	802.4	972.1	918.4	923.4	909.7	1115.6	1106.8	1296.5	1390.1
50°	535.3	539.1	555.3	582.7	792.4	715.0	789.9	915.9	984.5	1126.8
52.5°	449.2	455.5	415.5	378.1	520.3	559.0	551.5	680.1	707.5	883.5
55°	315.7	335.7	316.9	313.2	295.7	434.2	418.0	522.8	540.3	671.3
57.5°	32.4	37.4	64.9	233.3	193.4	245.8	298.2	383.1	400.6	495.4
60°	2.5	2.5	6.2	32.4	141.0	147.2	205.9	235.8	269.5	345.6
62.5°	0.0	1.2	2.5	5.0	22.5	78.6	103.6	123.5	162.2	223.4
65°	0.0	0.0	1.2	3.7	5.0	29.9	39.9	64.9	88.6	138.5
67.5°	0.0	0.0	1.2	2.5	3.7	7.5	13.7	23.7	47.4	78.6
70°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	15.0	21.2	42.4
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	7.5	10.0	15.0	21.2
75°	0.0	0.0	1.2	1.2	3.7	7.5	6.2	7.5	10.0	13.7
77.5°	0.0	0.0	1.2	2.5	3.7	7.5	6.2	7.5	7.5	8.7
80°	0.0	0.0	1.2	2.5	5.0	8.7	7.5	7.5	6.2	6.2
82.5°	0.0	0.0	1.2	3.7	5.0	11.2	11.2	10.0	5.0	3.7
85°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	10.0	3.7	2.5
87.5°	0.0	0.0	2.5	3.7	6.2	8.7	12.5	10.0	3.7	1.2
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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 CATALOG NUMBER: IFLD-S-SA2D-722-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6743.2	0°	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2	6743.2
6722.0	2.5°	6755.7	6748.2	6773.2	6783.2	6796.9	6744.5	6712.0	6713.3	6653.4
6645.9	5°	6685.8	6687.1	6719.5	6717.0	6730.8	6702.1	6689.6	6668.4	6616.0
6549.8	7.5°	6597.2	6586.0	6617.2	6640.9	6606.0	6625.9	6597.2	6607.2	6576.0
6465.0	10°	6528.6	6502.4	6531.1	6547.3	6548.6	6528.6	6501.2	6475.0	6463.7
6332.7	12.5°	6376.4	6342.7	6391.4	6413.8	6410.1	6371.4	6340.2	6346.4	6310.2
6100.6	15°	6166.7	6168.0	6202.9	6224.1	6204.2	6195.4	6197.9	6183.0	6151.8
5779.9	17.5°	5846.1	5864.8	5957.1	6008.3	6019.5	6002.0	5993.3	5975.8	5944.6
5268.3	20°	5312.0	5424.3	5589.0	5747.5	5778.7	5773.7	5742.5	5735.0	5717.5
4761.7	22.5°	4842.8	4926.4	5117.3	5364.4	5491.7	5504.1	5466.7	5455.5	5436.8
4308.7	25°	4357.4	4447.2	4619.4	4887.7	5151.0	5204.7	5198.4	5164.7	5144.8
3906.9	27.5°	3948.1	4038.0	4193.9	4436.0	4718.0	4890.2	4906.4	4852.8	4851.5
3548.8	30°	3578.8	3702.3	3820.8	4018.0	4291.3	4549.6	4577.0	4539.6	4543.3
3220.6	32.5°	3289.3	3391.6	3492.7	3624.9	3852.0	4152.8	4260.1	4225.1	4211.4
2947.4	35°	2993.5	3063.4	3167.0	3288.0	3442.7	3741.0	3926.9	3900.7	3887.0
2578.0	37.5°	2656.6	2776.4	2851.3	2987.3	3108.3	3345.4	3607.5	3603.7	3575.0
2263.6	40°	2311.0	2437.0	2550.6	2687.8	2781.4	2969.8	3260.6	3259.3	3263.1
1937.9	42.5°	1997.8	2113.8	2251.1	2400.8	2490.7	2627.9	2939.9	2957.3	2978.6
1669.6	45°	1714.5	1819.3	1946.6	2128.8	2237.3	2316.0	2593.0	2672.8	2671.6
1430.0	47.5°	1460.0	1558.5	1665.8	1843.0	1981.5	2052.7	2282.3	2395.8	2388.3
1173.0	50°	1225.4	1312.7	1425.0	1553.5	1739.5	1801.9	1972.8	2122.5	2111.3
934.6	52.5°	985.8	1106.8	1201.7	1318.9	1514.9	1576.0	1708.3	1854.3	1845.5
701.3	55°	768.7	886.0	1000.8	1101.8	1266.5	1357.6	1452.5	1602.2	1599.7
549.0	57.5°	581.5	710.0	818.6	914.7	1045.7	1158.0	1234.1	1370.1	1387.6
375.6	60°	430.5	529.1	646.4	753.7	857.3	973.3	1024.5	1158.0	1165.5
257.1	62.5°	293.2	401.8	516.6	613.9	691.3	811.1	857.3	967.1	980.8
164.7	65°	203.4	273.3	404.3	474.2	569.0	671.3	717.5	804.8	832.3
94.8	67.5°	134.8	194.7	315.7	379.3	472.9	542.8	601.5	672.6	702.5
59.9	70°	73.6	143.5	225.9	299.5	380.6	448.0	505.4	562.8	589.0
27.5	72.5°	49.9	96.1	157.2	237.1	307.0	373.1	424.3	466.7	467.9
16.2	75°	25.0	64.9	119.8	183.4	239.6	304.5	350.6	375.6	345.6
10.0	77.5°	15.0	47.4	97.3	147.2	194.7	245.8	272.0	285.8	237.1
7.5	80°	8.7	33.7	76.1	117.3	134.8	180.9	205.9	209.6	158.5
5.0	82.5°	6.2	25.0	59.9	86.1	82.4	127.3	154.7	149.7	101.1
3.7	85°	3.7	17.5	37.4	53.7	49.9	83.6	89.8	92.3	58.6
2.5	87.5°	2.5	10.0	20.0	28.7	23.7	36.2	36.2	43.7	28.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6743.2
6576.0
6603.5
6523.6
6413.8
6279.0
6120.6
5930.9
5677.6
5431.8
5123.6
4849.0
4524.6
4212.7
3868.3
3598.7
3263.1
2967.3
2674.1
2390.8
2121.3
1864.2
1605.9
1380.1
1176.7
983.3
826.1
698.8
579.0
456.7
323.2
228.4
148.5
93.6
53.7
25.0
0.0

(END OF REPORT)