

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: P638248

Luminaire Tested: **IFLD-S-SA2D-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638248  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8843 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

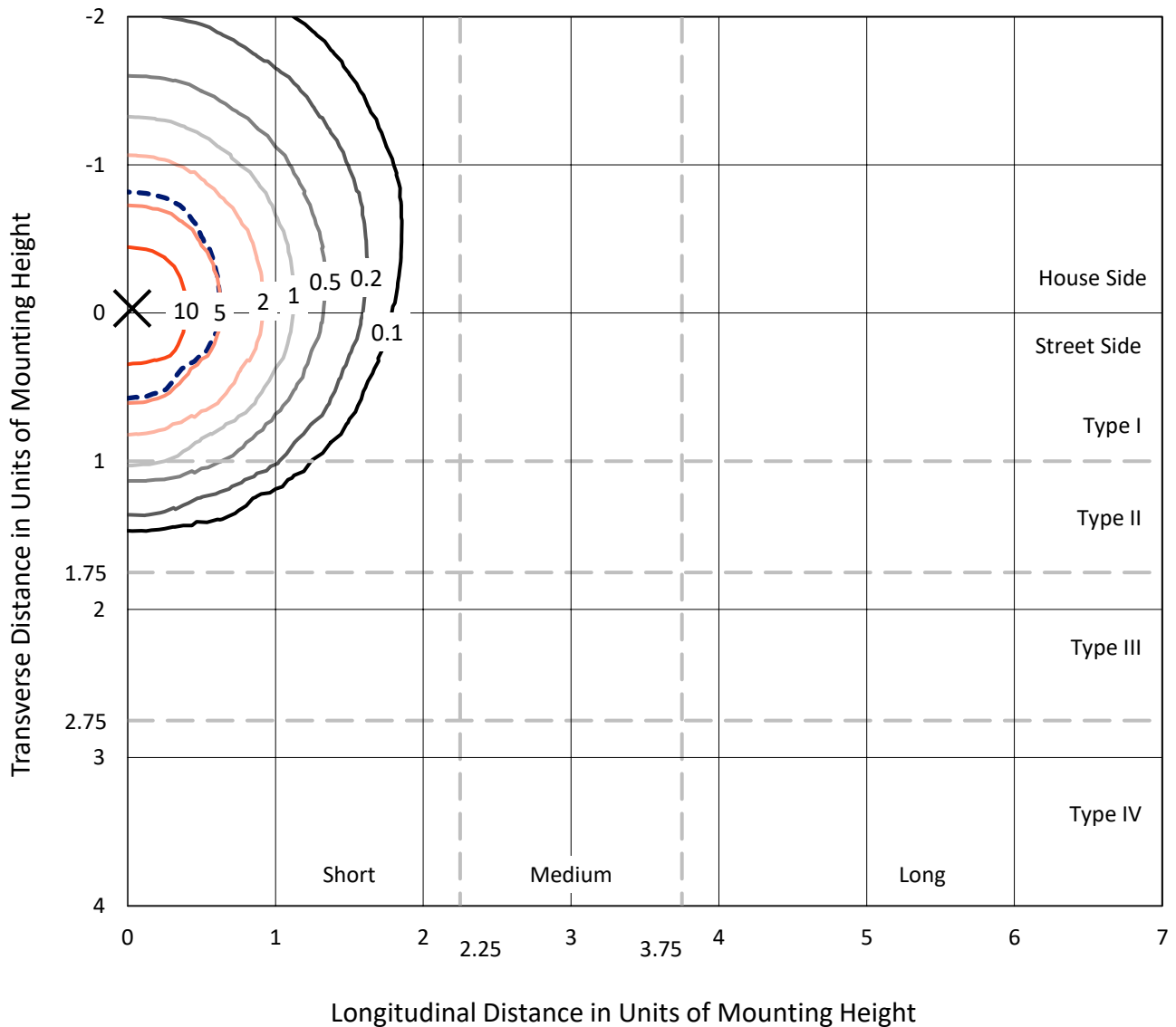
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638248  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

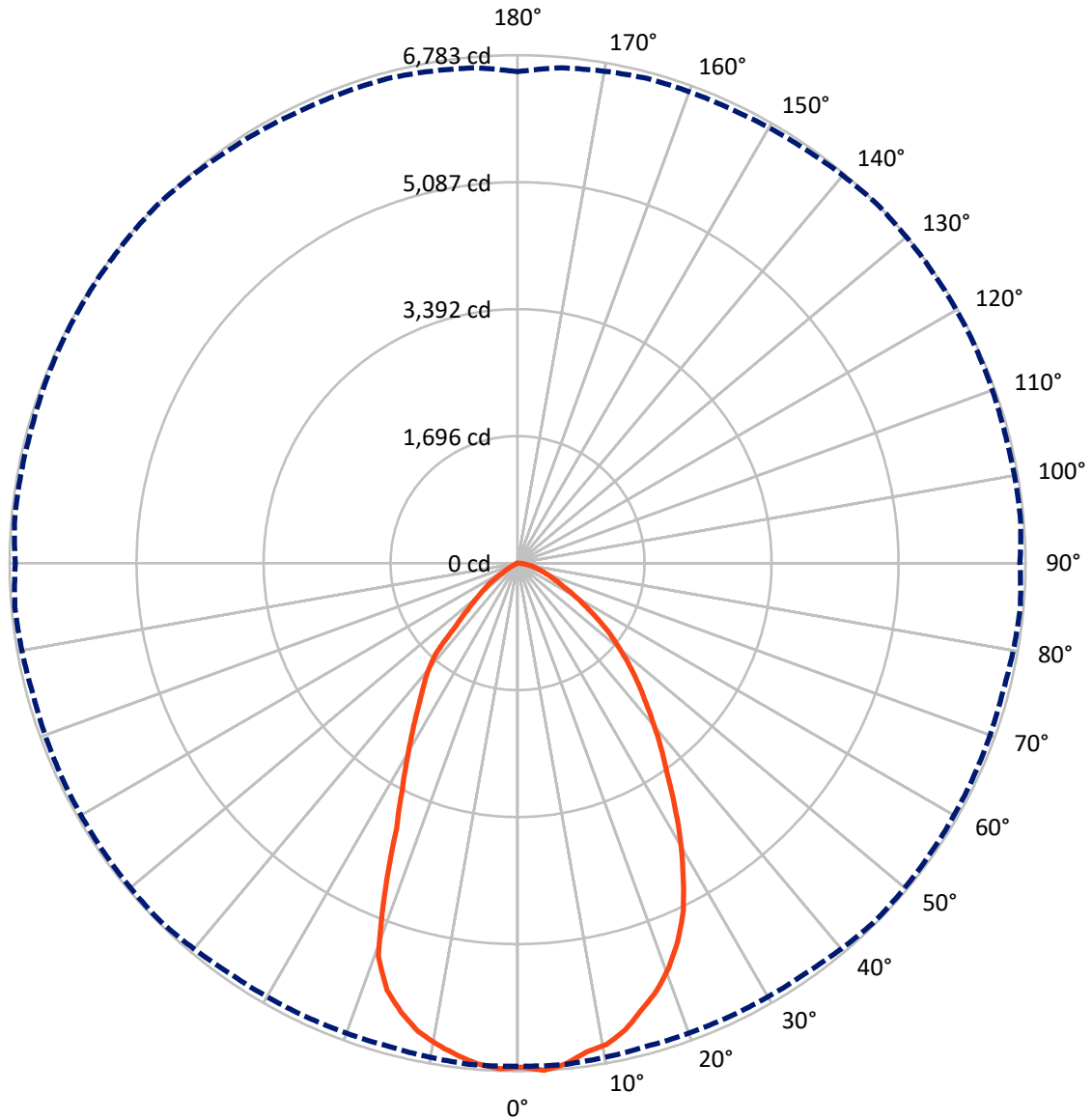
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.8 fc  
 Type I - Short - N/A

REPORT NUMBER: P638248  
CATALOG NUMBER: IFLD-S-SA2D-827-U-77-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638248

CATALOG NUMBER: IFLD-S-SA2D-827-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5237.3	0.0	5237.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3605.7	0.0	3605.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	8843.0	0.0	8843.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	631.1	7.1
10°-20°	1692.4	19.1
20°-30°	2064.0	23.3
30°-40°	1884.4	21.3
40°-50°	1361.8	15.4
50°-60°	743.6	8.4
60°-70°	307.4	3.5
70°-80°	124.5	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°	8843.0	100.0
0°-180°	8843.0	100.0



REPORT NUMBER: P638248

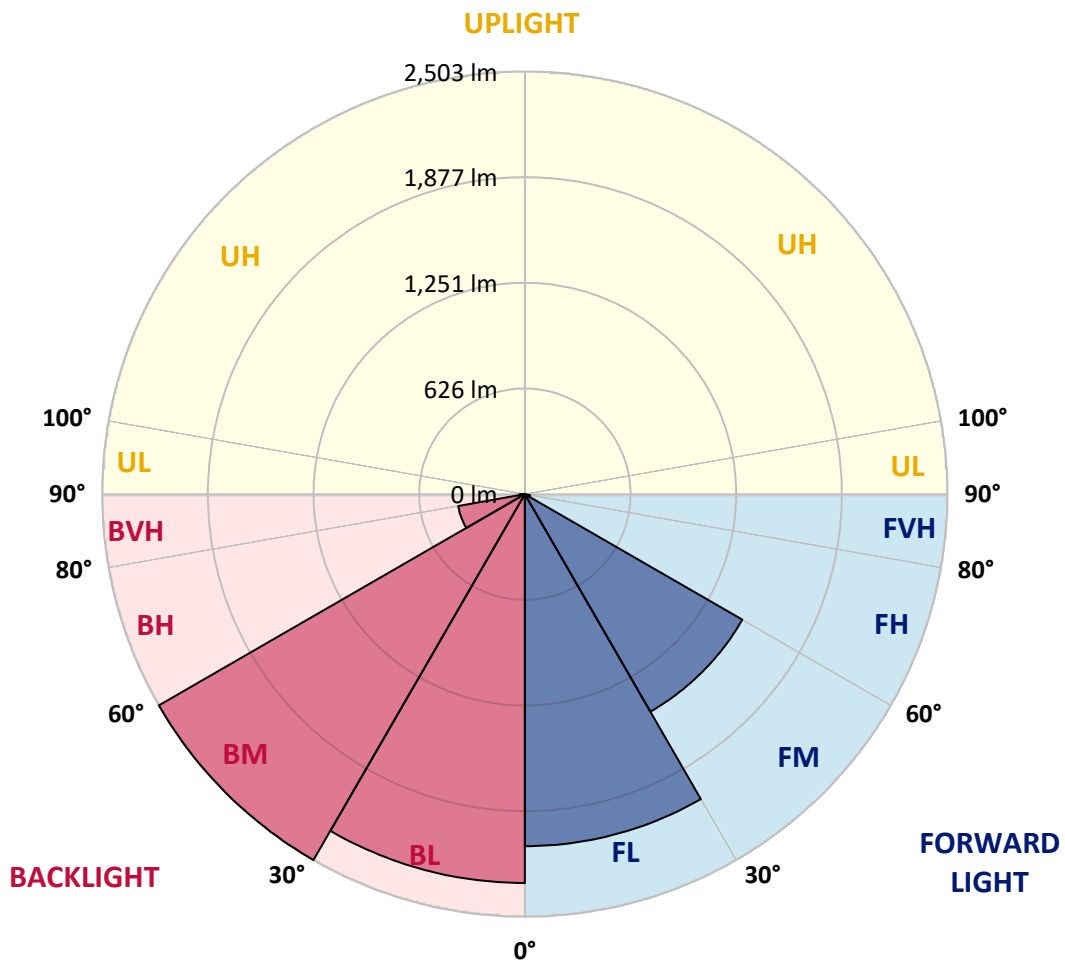
CATALOG NUMBER: IFLD-S-SA2D-827-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.6	23.6			
FM (30°-60°)	1487.2	16.8			
FH (60°-80°)	31.2	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2302.8	26.0	B3/2500		
BM (30°-60°)	2502.5	28.3	B3/5000		
BH (60°-80°)	400.8	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





REPORT NUMBER: P638248  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5
2.5°	6717.1	6725.8	6678.5	6683.4	6692.1	6755.7	6739.5	6724.5	6703.4	6739.5
5°	6708.3	6713.3	6663.5	6646.1	6653.5	6710.8	6658.5	6658.5	6653.5	6647.3
7.5°	6641.1	6643.6	6605.0	6573.8	6593.8	6619.9	6581.3	6600.0	6572.6	6593.8
10°	6540.2	6524.0	6478.0	6469.2	6491.7	6516.6	6490.4	6507.8	6482.9	6499.1
12.5°	6392.0	6367.1	6329.8	6318.6	6357.2	6390.8	6369.6	6359.7	6327.3	6367.1
15°	5820.5	5801.8	5886.5	6034.6	6167.9	6196.5	6174.1	6184.1	6116.8	6128.0
17.5°	4790.6	4755.7	4846.6	5197.8	5698.4	5962.4	5942.5	5877.7	5778.1	5800.5
20°	4353.5	4343.5	4333.6	4417.0	4766.9	5567.7	5595.1	5430.7	5288.7	5257.6
22.5°	4106.9	4103.2	4093.2	4111.9	4204.1	4718.4	5032.2	4880.3	4785.6	4776.9
25°	3881.5	3875.3	3845.4	3869.1	3869.1	3899.0	4301.2	4393.4	4309.9	4300.0
27.5°	3652.4	3641.2	3636.2	3647.4	3590.1	3388.4	3490.5	3940.1	3896.5	3899.0
30°	3404.6	3400.9	3387.2	3410.8	3234.0	2983.7	2918.9	3529.1	3537.8	3535.4
32.5°	3036.0	3052.2	3114.5	3140.6	2849.2	2642.5	2534.1	3053.4	3231.5	3227.8
35°	2205.4	2205.4	2408.4	2785.7	2496.8	2341.1	2282.6	2588.9	2928.9	2941.4
37.5°	1813.1	1819.4	1859.2	2031.1	2154.3	2099.5	2082.1	2179.2	2540.4	2560.3
40°	1631.3	1631.3	1631.3	1560.3	1556.6	1891.6	1881.6	1850.5	2194.2	2237.8
42.5°	1465.7	1469.4	1471.9	1292.6	1193.0	1635.1	1612.6	1565.3	1884.1	1935.2
45°	1295.1	1301.3	1308.8	1080.9	1037.3	1176.8	1364.8	1312.5	1577.8	1643.8
47.5°	790.8	800.7	970.1	916.5	921.5	907.8	1113.3	1104.6	1293.8	1387.2
50°	534.2	538.0	554.2	581.5	790.8	713.5	788.3	914.0	982.5	1124.5
52.5°	448.3	454.5	414.7	377.3	519.3	557.9	550.4	678.7	706.1	881.7
55°	315.1	335.0	316.3	312.6	295.1	433.4	417.2	521.8	539.2	670.0
57.5°	32.4	37.4	64.8	232.9	193.0	245.3	297.6	382.3	399.7	494.4
60°	2.5	2.5	6.2	32.4	140.7	146.9	205.5	235.4	269.0	344.9
62.5°	0.0	1.2	2.5	5.0	22.4	78.5	103.4	123.3	161.9	222.9
65°	0.0	0.0	1.2	3.7	5.0	29.9	39.8	64.8	88.4	138.2
67.5°	0.0	0.0	1.2	2.5	3.7	7.5	13.7	23.7	47.3	78.5
70°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	14.9	21.2	42.3
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	7.5	10.0	14.9	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



REPORT NUMBER: P638248  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6729.5	0°	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5	6729.5
6708.3	2.5°	6742.0	6734.5	6759.4	6769.4	6783.1	6730.8	6698.4	6699.6	6639.8
6632.4	5°	6672.2	6673.5	6705.8	6703.4	6717.1	6688.4	6676.0	6654.8	6602.5
6536.5	7.5°	6583.8	6572.6	6603.7	6627.4	6592.5	6612.5	6583.8	6593.8	6562.6
6451.8	10°	6515.3	6489.2	6517.8	6534.0	6535.2	6515.3	6487.9	6461.8	6450.6
6319.8	12.5°	6363.4	6329.8	6378.3	6400.8	6397.0	6358.4	6327.3	6333.5	6297.4
6088.2	15°	6154.2	6155.4	6190.3	6211.5	6191.5	6182.8	6185.3	6170.4	6139.2
5768.1	17.5°	5834.1	5852.8	5945.0	5996.0	6007.2	5989.8	5981.1	5963.7	5932.5
5257.6	20°	5301.2	5413.2	5577.6	5735.8	5766.9	5761.9	5730.8	5723.3	5705.9
4752.0	22.5°	4832.9	4916.4	5106.9	5353.5	5480.5	5492.9	5455.6	5444.4	5425.7
4300.0	25°	4348.5	4438.2	4610.0	4877.8	5140.5	5194.1	5187.8	5154.2	5134.3
3899.0	27.5°	3940.1	4029.7	4185.4	4427.0	4708.4	4880.3	4896.5	4842.9	4841.7
3541.6	30°	3571.5	3694.8	3813.1	4009.8	4282.5	4540.3	4567.7	4530.3	4534.1
3214.1	32.5°	3282.6	3384.7	3485.5	3617.5	3844.2	4144.3	4251.4	4216.5	4202.8
2941.4	35°	2987.4	3057.2	3160.5	3281.3	3435.7	3733.4	3918.9	3892.8	3879.1
2572.8	37.5°	2651.2	2770.8	2845.5	2981.2	3102.0	3338.6	3600.1	3596.4	3567.7
2258.9	40°	2306.3	2432.0	2545.4	2682.3	2775.7	2963.8	3253.9	3252.7	3256.4
1933.9	42.5°	1993.7	2109.5	2246.5	2395.9	2485.6	2622.6	2933.9	2951.3	2972.5
1666.2	45°	1711.0	1815.6	1942.6	2124.5	2232.8	2311.2	2587.7	2667.4	2666.1
1427.1	47.5°	1457.0	1555.4	1662.5	1839.3	1977.5	2048.5	2277.6	2390.9	2383.5
1170.6	50°	1222.9	1310.0	1422.1	1550.4	1735.9	1798.2	1968.8	2118.2	2107.0
932.7	52.5°	983.8	1104.6	1199.2	1316.3	1511.8	1572.8	1704.8	1850.5	1841.8
699.8	55°	767.1	884.2	998.7	1099.6	1264.0	1354.9	1449.5	1598.9	1596.5
547.9	57.5°	580.3	708.6	816.9	912.8	1043.5	1155.6	1231.6	1367.3	1384.8
374.8	60°	429.6	528.0	645.1	752.2	855.5	971.3	1022.4	1155.6	1163.1
256.5	62.5°	292.6	401.0	515.5	612.7	689.9	809.4	855.5	965.1	978.8
164.4	65°	203.0	272.7	403.5	473.2	567.8	670.0	716.0	803.2	830.6
94.6	67.5°	134.5	194.3	315.1	378.6	472.0	541.7	600.2	671.2	701.1
59.8	70°	73.5	143.2	225.4	298.9	379.8	447.1	504.3	561.6	587.8
27.4	72.5°	49.8	95.9	156.9	236.6	306.3	372.3	423.4	465.7	467.0
16.2	75°	24.9	64.8	119.5	183.1	239.1	303.8	349.9	374.8	344.9
10.0	77.5°	14.9	47.3	97.1	146.9	194.3	245.3	271.5	285.2	236.6
7.5	80°	8.7	33.6	76.0	117.1	134.5	180.6	205.5	209.2	158.2
5.0	82.5°	6.2	24.9	59.8	85.9	82.2	127.0	154.4	149.4	100.9
3.7	85°	3.7	17.4	37.4	53.5	49.8	83.4	89.7	92.2	58.5
2.5	87.5°	2.5	10.0	19.9	28.6	23.7	36.1	36.1	43.6	28.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
6729.5
6562.6
6590.0
6510.3
6400.8
6266.3
6108.1
5918.8
5666.0
5420.7
5113.1
4839.2
4515.4
4204.1
3860.4
3591.4
3256.4
2961.3
2668.6
2386.0
2117.0
1860.5
1602.7
1377.3
1174.3
981.3
824.4
697.4
577.8
455.8
322.5
227.9
148.2
93.4
53.5
24.9
0.0

(END OF REPORT)