

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: P637987

Luminaire Tested: **IFLD-S-SA2D-827-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637987
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-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9694.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

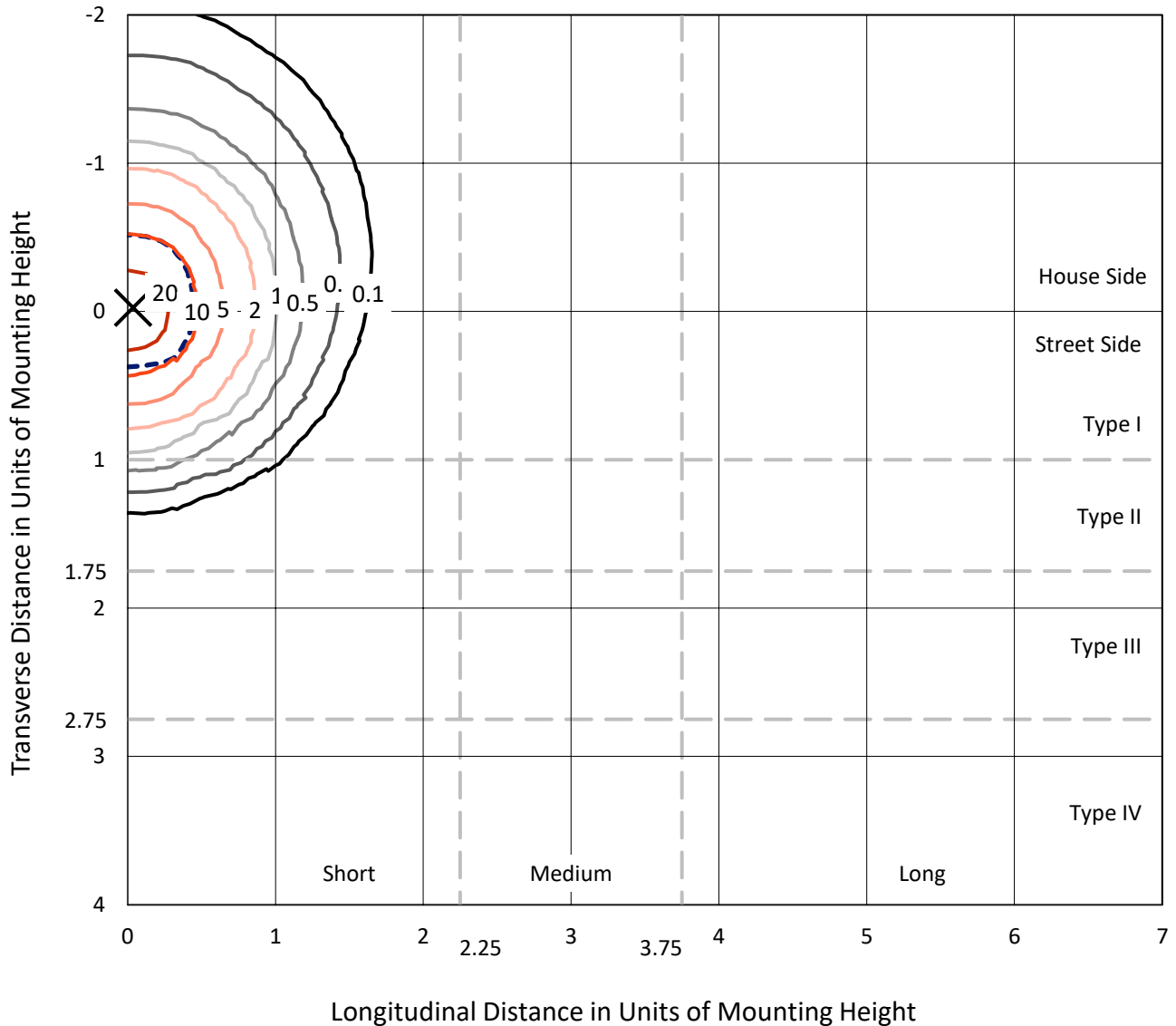
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

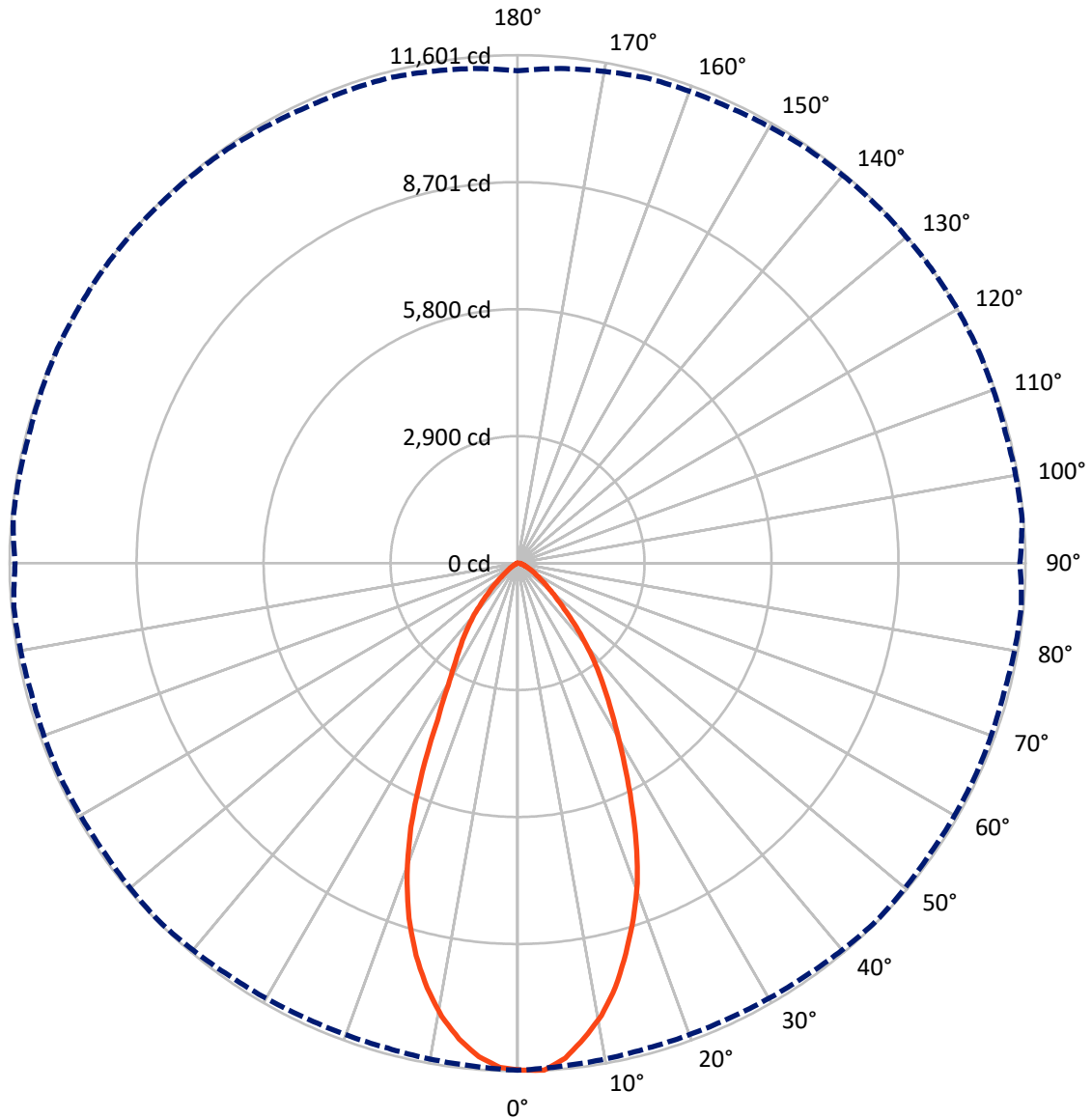
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29 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
House Side	Lumens	5500.8	0.0	5500.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4193.3	0.0	4193.3
	% Fixture	43.3	0.0	43.3
Total	Lumens	9694.1	0.0	9694.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1051.7	10.8
10°-20°	2507.0	25.9
20°-30°	2553.3	26.3
30°-40°	1904.0	19.6
40°-50°	994.7	10.3
50°-60°	418.4	4.3
60°-70°	170.9	1.8
70°-80°	71.9	0.7
80°-90°	22.2	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°	9694.1	100.0
0°-180°	9694.1	100.0



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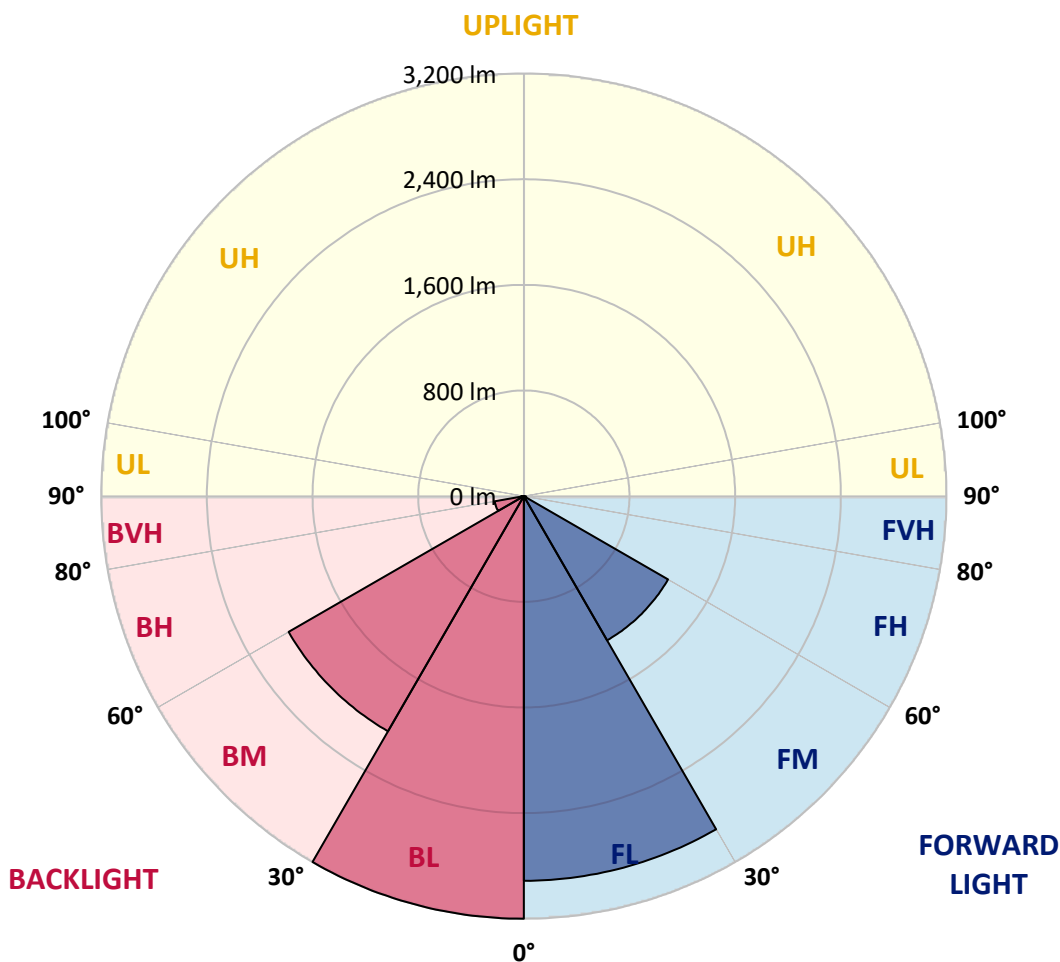
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.2	30.0			
FM (30°-60°)	1260.8	13.0			
FH (60°-80°)	18.2	0.2			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	3199.8	33.0	B4/5000		
BM (30°-60°)	2056.3	21.2	B2/2500		
BH (60°-80°)	224.5	2.3	B1/500		G1/500
BVH (80°-90°)	20.1	0.2			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°	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1
2.5°	11583.3	11536.0	11468.8	11462.5	11497.4	11573.4	11524.8	11527.3	11497.4	11548.5
5°	11401.5	11356.7	11310.6	11249.6	11300.7	11333.0	11308.1	11280.7	11242.1	11291.9
7.5°	11057.8	11032.9	10964.4	10937.0	10968.2	11004.3	10950.7	10943.3	10889.7	10954.5
10°	10532.3	10522.4	10455.1	10438.9	10466.3	10521.1	10497.5	10492.5	10458.9	10452.6
12.5°	9986.9	9948.3	9864.9	9859.9	9901.0	9983.2	9919.7	9858.7	9877.3	9893.5
15°	8582.3	8541.2	8747.9	9072.9	9243.5	9237.3	9256.0	9182.5	9160.1	9167.5
17.5°	6822.7	6753.0	6827.7	7330.8	8141.5	8612.2	8482.7	8324.5	8239.8	8183.8
20°	5888.8	5892.5	5878.8	6008.3	6513.9	7587.3	7556.2	7251.1	7140.3	7094.2
22.5°	5321.0	5299.8	5269.9	5311.0	5446.7	6076.8	6499.0	6218.8	6180.2	6129.1
25°	4764.3	4764.3	4728.2	4769.3	4807.9	4816.6	5240.0	5354.6	5279.9	5279.9
27.5°	4282.4	4257.5	4241.3	4260.0	4209.0	3963.6	4017.2	4603.7	4552.6	4521.5
30°	3804.2	3796.8	3769.4	3794.3	3605.0	3328.6	3216.5	3885.2	3938.7	3927.5
32.5°	3140.5	3170.4	3292.4	3331.0	3007.3	2784.4	2677.3	3225.2	3439.4	3430.7
35°	2134.4	2159.3	2298.7	2759.5	2493.0	2333.6	2302.5	2565.2	2917.6	2951.2
37.5°	1699.8	1696.0	1735.9	1818.1	2003.6	1965.0	1956.3	2024.8	2379.7	2394.6
40°	1400.9	1395.9	1394.7	1327.4	1281.4	1633.8	1610.1	1569.0	1876.6	1906.5
42.5°	1129.4	1134.4	1138.2	991.2	924.0	1260.2	1246.5	1204.2	1471.9	1506.8
45°	886.6	885.4	892.8	738.4	719.8	805.7	931.4	897.8	1110.8	1148.1
47.5°	459.5	475.7	576.6	571.6	580.3	571.6	704.8	696.1	835.6	895.3
50°	308.8	313.8	322.5	323.8	457.0	420.9	478.2	541.7	585.3	677.4
52.5°	239.1	242.8	220.4	206.7	280.2	311.3	313.8	374.8	408.4	501.8
55°	133.2	149.4	160.6	161.9	154.4	230.4	229.1	277.7	303.8	366.1
57.5°	17.4	21.2	32.4	104.6	103.4	128.3	160.6	201.7	216.7	267.7
60°	1.2	2.5	3.7	16.2	68.5	74.7	109.6	125.8	150.7	188.0
62.5°	0.0	0.0	1.2	3.7	13.7	43.6	57.3	66.0	88.4	123.3
65°	0.0	0.0	1.2	2.5	5.0	16.2	22.4	36.1	52.3	76.0
67.5°	0.0	0.0	1.2	2.5	3.7	6.2	10.0	16.2	27.4	46.1
70°	0.0	0.0	1.2	2.5	3.7	5.0	7.5	10.0	14.9	24.9
72.5°	0.0	0.0	1.2	1.2	2.5	6.2	6.2	7.5	10.0	13.7
75°	0.0	0.0	1.2	2.5	3.7	6.2	6.2	6.2	7.5	8.7
77.5°	0.0	0.0	1.2	2.5	3.7	6.2	5.0	6.2	6.2	6.2
80°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	6.2	5.0	5.0
82.5°	0.0	0.0	1.2	3.7	3.7	8.7	8.7	8.7	3.7	3.7
85°	0.0	0.0	2.5	3.7	6.2	10.0	10.0	7.5	3.7	2.5
87.5°	0.0	0.0	1.2	2.5	2.5	5.0	7.5	6.2	2.5	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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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
11582.1	0°	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1	11582.1
11473.7	2.5°	11565.9	11534.8	11593.3	11600.8	11575.9	11544.7	11472.5	11466.3	11340.5
11219.7	5°	11346.7	11295.7	11333.0	11357.9	11349.2	11315.6	11285.7	11258.3	11145.0
10807.5	7.5°	10938.3	10919.6	10937.0	10955.7	10991.8	10955.7	10943.3	10914.6	10802.6
10401.6	10°	10485.0	10450.2	10516.2	10507.4	10497.5	10487.5	10435.2	10440.2	10308.2
9848.7	12.5°	9928.4	9869.9	9933.4	9940.8	9933.4	9898.5	9840.0	9864.9	9744.1
9101.5	15°	9180.0	9173.8	9219.8	9249.7	9270.9	9233.5	9213.6	9226.1	9153.8
8140.2	17.5°	8261.0	8341.9	8492.6	8543.7	8544.9	8583.5	8572.3	8557.4	8503.8
7075.5	20°	7180.1	7335.8	7567.4	7805.2	7873.7	7841.3	7826.4	7853.8	7774.1
6075.6	22.5°	6182.7	6315.9	6584.9	6932.3	7132.8	7152.7	7149.0	7125.3	7094.2
5274.9	25°	5335.9	5454.2	5712.0	6029.5	6414.3	6471.6	6474.1	6466.6	6439.2
4548.9	27.5°	4621.1	4764.3	4906.3	5190.2	5599.9	5836.5	5806.6	5797.9	5787.9
3936.2	30°	3973.6	4154.2	4287.4	4464.2	4831.6	5151.6	5182.7	5167.8	5144.1
3429.4	32.5°	3460.6	3567.6	3737.0	3856.5	4120.5	4482.9	4602.5	4591.2	4570.1
2972.4	35°	3014.8	3057.1	3190.3	3323.6	3499.2	3850.3	4027.1	4002.2	3998.5
2422.0	37.5°	2483.0	2625.0	2698.5	2832.9	2956.2	3228.9	3473.0	3461.8	3463.0
1947.6	40°	2004.9	2087.0	2232.7	2346.1	2459.4	2658.6	2930.1	2937.5	2935.1
1508.0	42.5°	1539.1	1618.8	1772.0	1895.3	1996.1	2119.4	2378.4	2387.1	2398.4
1174.3	45°	1201.7	1252.7	1364.8	1493.1	1600.1	1674.9	1871.6	1927.6	1928.9
910.3	47.5°	932.7	991.2	1070.9	1194.2	1298.8	1352.3	1495.5	1571.5	1567.8
698.6	50°	732.2	785.8	850.5	947.6	1061.0	1103.3	1209.1	1283.9	1280.1
526.7	52.5°	560.4	628.9	686.1	760.8	871.7	907.8	983.7	1069.7	1057.2
386.0	55°	424.6	494.4	547.9	610.2	711.0	757.1	809.4	877.9	880.4
298.9	57.5°	320.0	392.3	440.8	504.3	580.3	631.3	671.2	744.7	743.4
204.2	60°	229.1	291.4	349.9	415.9	474.4	533.0	560.4	630.1	632.6
144.4	62.5°	165.6	224.1	280.2	337.5	389.8	447.0	472.0	526.7	534.2
94.6	65°	115.8	156.9	221.7	265.2	323.8	366.1	398.5	445.8	454.5
56.0	67.5°	74.7	113.3	175.6	214.2	267.7	303.8	337.5	374.8	386.0
36.1	70°	44.8	85.9	130.8	171.8	220.4	252.8	285.2	317.5	323.8
17.4	72.5°	28.6	59.8	94.6	139.5	176.8	211.7	240.3	264.0	245.3
11.2	75°	16.2	41.1	74.7	109.6	143.2	176.8	200.5	212.9	170.6
7.5	77.5°	10.0	29.9	61.0	88.4	110.8	142.0	156.9	164.4	122.0
5.0	80°	6.2	22.4	51.1	72.2	72.2	104.6	122.0	128.3	88.4
3.7	82.5°	5.0	16.2	39.8	54.8	48.6	78.5	95.9	97.1	62.3
2.5	85°	3.7	12.5	24.9	36.1	33.6	54.8	56.0	62.3	41.1
2.5	87.5°	2.5	7.5	14.9	21.2	18.7	26.2	29.9	33.6	22.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11582.1
<i>11242.1</i>
11054.1
10778.9
10263.4
9709.2
9066.7
8424.1
7716.8
7034.4
6347.0
5729.4
5114.2
4514.0
3957.4
3423.2
2891.5
2361.0
1896.5
1554.1
1280.1
1058.5
880.4
740.9
626.4
531.7
452.0
384.8
318.8
227.9
161.9
114.6
82.2
57.3
37.4
19.9
0.0

(END OF REPORT)