

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: P636711

Luminaire Tested: **IFLD-S-SA2D-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636711  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-927-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (32) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7616 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

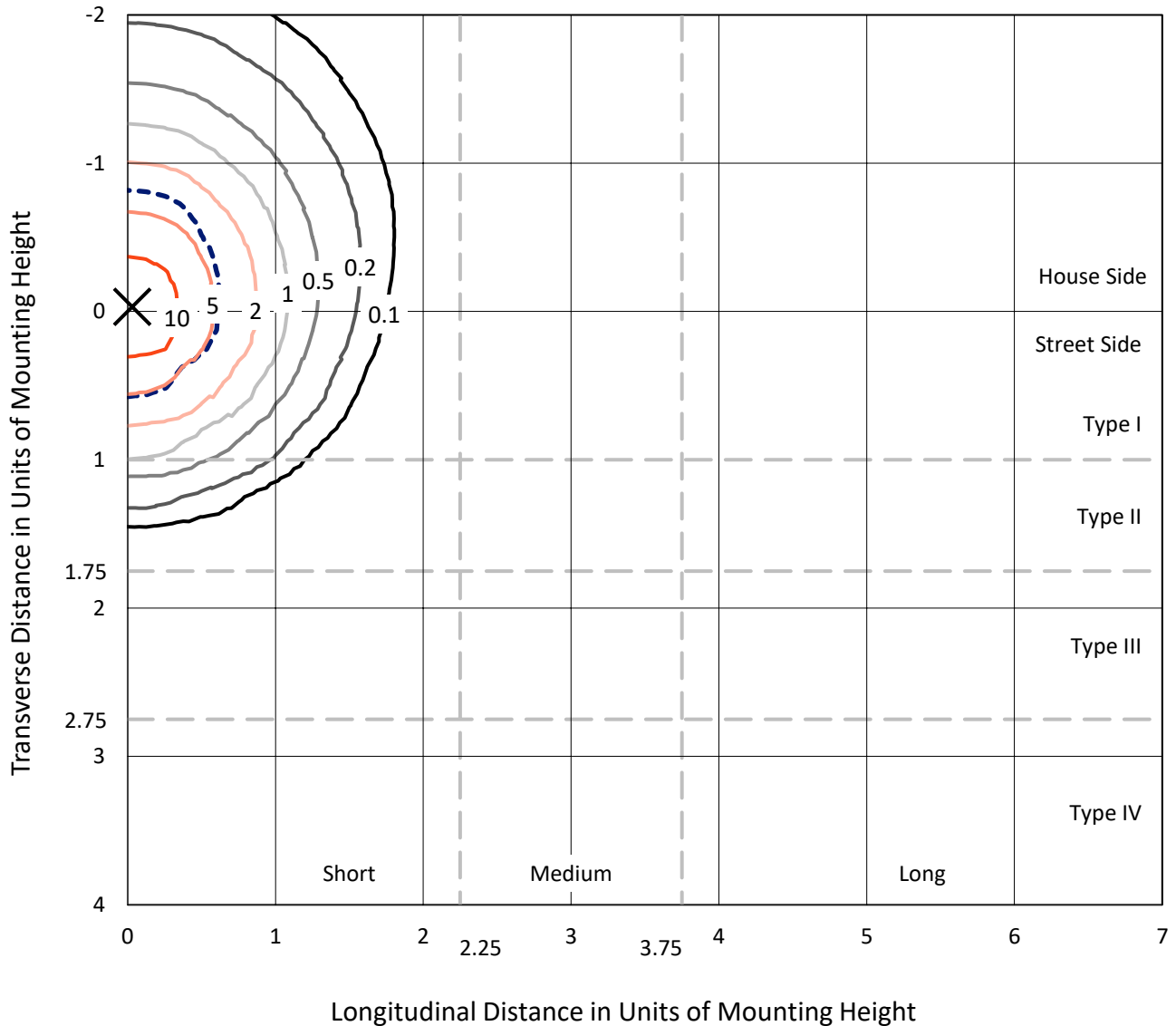
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

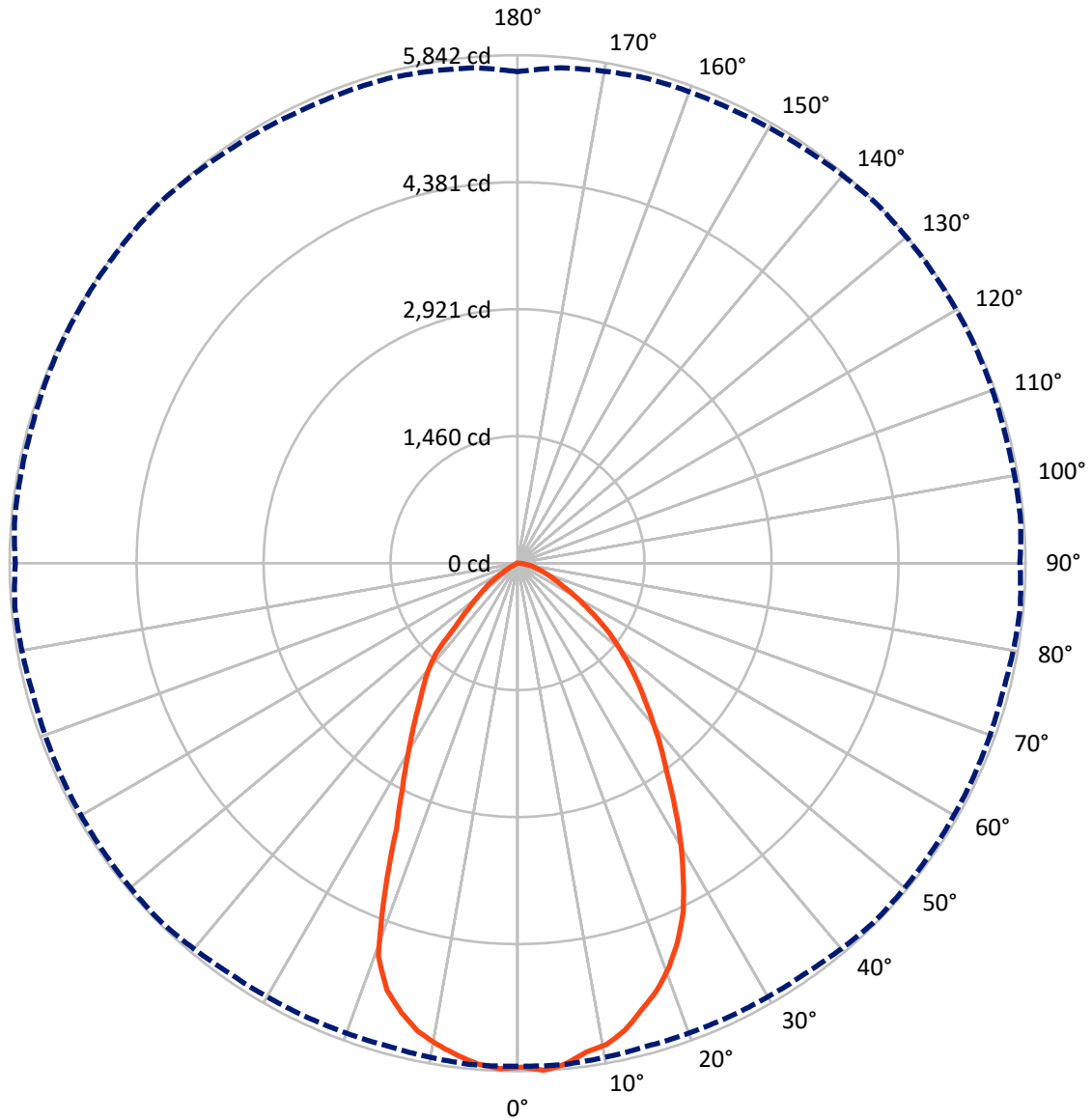
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4510.6	0.0	4510.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	3105.4	0.0	3105.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	7616.0	0.0	7616.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	543.5	7.1
10°-20°	1457.6	19.1
20°-30°	1777.6	23.3
30°-40°	1622.9	21.3
40°-50°	1172.8	15.4
50°-60°	640.4	8.4
60°-70°	264.8	3.5
70°-80°	107.2	1.4
80°-90°	29.2	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°	7616.0	100.0
0°-180°	7616.0	100.0



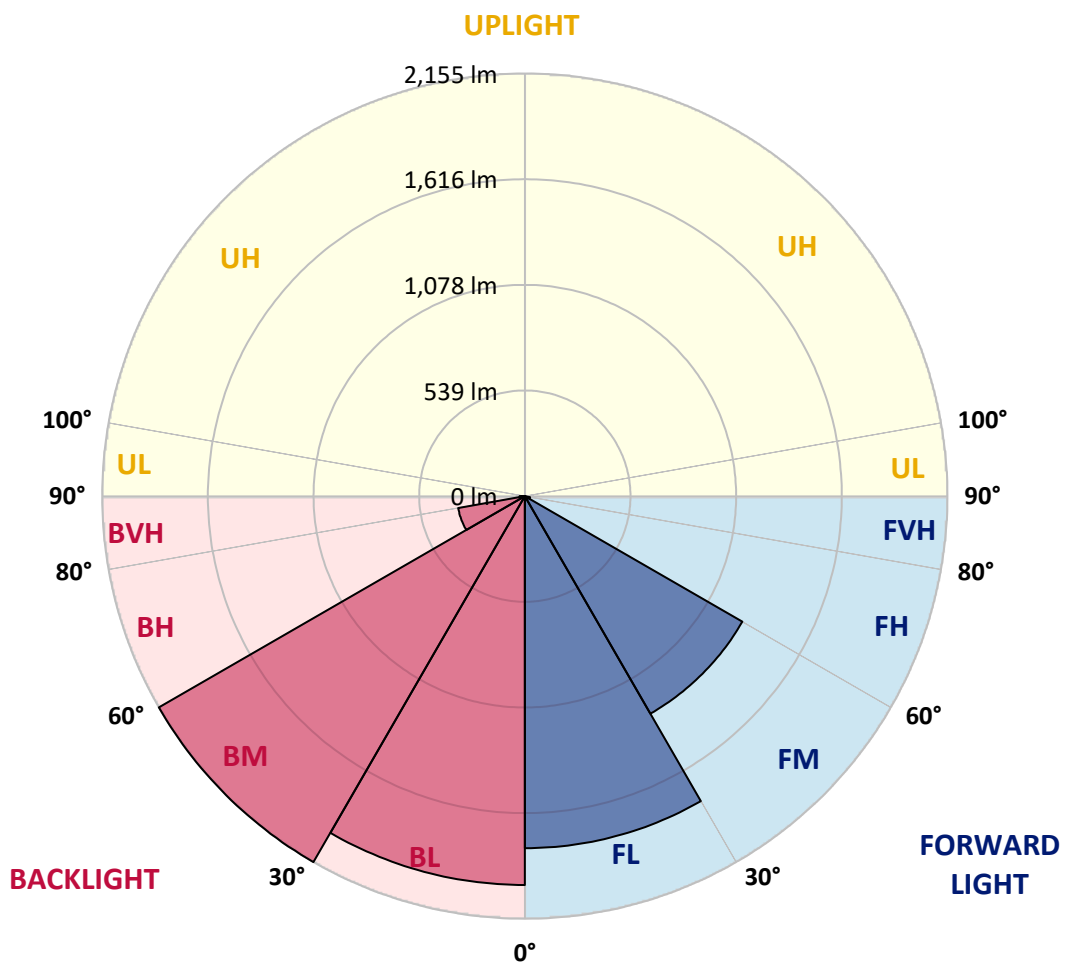
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1795.4	23.6			
FM (30°-60°)	1280.9	16.8			
FH (60°-80°)	26.8	0.4			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1983.3	26.0	B3/2500		
BM (30°-60°)	2155.3	28.3	B2/2500		
BH (60°-80°)	345.2	4.5	B1/500		G1/500
BVH (80°-90°)	26.8	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°	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7
2.5°	5785.0	5792.5	5751.8	5756.1	5763.6	5818.3	5804.3	5791.5	5773.2	5804.3
5°	5777.5	5781.8	5738.9	5723.9	5730.3	5779.7	5734.6	5734.6	5730.3	5725.0
7.5°	5719.6	5721.7	5688.5	5661.7	5678.8	5701.4	5668.1	5684.2	5660.6	5678.8
10°	5632.7	5618.8	5579.1	5571.6	5590.9	5612.3	5589.8	5604.8	5583.4	5597.3
12.5°	5505.1	5483.6	5451.5	5441.8	5475.1	5504.0	5485.8	5477.2	5449.3	5483.6
15°	5012.8	4996.7	5069.7	5197.3	5312.0	5336.7	5317.4	5326.0	5268.1	5277.7
17.5°	4125.9	4095.8	4174.1	4476.6	4907.7	5135.1	5117.9	5062.2	4976.4	4995.7
20°	3749.4	3740.8	3732.3	3804.1	4105.5	4795.1	4818.7	4677.1	4554.9	4528.1
22.5°	3537.1	3533.9	3525.3	3541.4	3620.7	4063.7	4333.9	4203.1	4121.6	4114.1
25°	3343.0	3337.6	3311.9	3332.2	3332.2	3358.0	3704.4	3783.7	3711.9	3703.3
27.5°	3145.6	3136.0	3131.7	3141.3	3092.0	2918.2	3006.2	3393.4	3355.8	3358.0
30°	2932.2	2929.0	2917.2	2937.6	2785.3	2569.7	2513.9	3039.4	3046.9	3044.8
32.5°	2614.7	2628.7	2682.3	2704.8	2453.9	2275.8	2182.5	2629.7	2783.1	2779.9
35°	1899.4	1899.4	2074.2	2399.2	2150.3	2016.3	1965.9	2229.7	2522.5	2533.2
37.5°	1561.5	1566.9	1601.2	1749.2	1855.4	1808.2	1793.2	1876.9	2187.9	2205.0
40°	1405.0	1405.0	1405.0	1343.8	1340.6	1629.1	1620.5	1593.7	1889.7	1927.3
42.5°	1262.3	1265.5	1267.7	1113.2	1027.4	1408.2	1388.9	1348.1	1622.7	1666.7
45°	1115.4	1120.8	1127.2	930.9	893.4	1013.5	1175.5	1130.4	1358.8	1415.7
47.5°	681.0	689.6	835.5	789.4	793.6	781.8	958.8	951.3	1114.3	1194.8
50°	460.1	463.3	477.3	500.9	681.0	614.5	678.9	787.2	846.2	968.5
52.5°	386.1	391.5	357.1	325.0	447.2	480.5	474.0	584.5	608.1	759.3
55°	271.3	288.5	272.4	269.2	254.2	373.2	359.3	449.4	464.4	577.0
57.5°	27.9	32.2	55.8	200.6	166.2	211.3	256.3	329.3	344.3	425.8
60°	2.1	2.1	5.4	27.9	121.2	126.6	177.0	202.7	231.7	297.1
62.5°	0.0	1.1	2.1	4.3	19.3	67.6	89.0	106.2	139.4	192.0
65°	0.0	0.0	1.1	3.2	4.3	25.7	34.3	55.8	76.1	119.0
67.5°	0.0	0.0	1.1	2.1	3.2	6.4	11.8	20.4	40.8	67.6
70°	0.0	0.0	1.1	2.1	3.2	5.4	8.6	12.9	18.2	36.5
72.5°	0.0	0.0	1.1	1.1	2.1	5.4	6.4	8.6	12.9	18.2
75°	0.0	0.0	1.1	1.1	3.2	6.4	5.4	6.4	8.6	11.8
77.5°	0.0	0.0	1.1	2.1	3.2	6.4	5.4	6.4	6.4	7.5
80°	0.0	0.0	1.1	2.1	4.3	7.5	6.4	6.4	5.4	5.4
82.5°	0.0	0.0	1.1	3.2	4.3	9.7	9.7	8.6	4.3	3.2
85°	0.0	0.0	2.1	4.3	6.4	10.7	10.7	8.6	3.2	2.1
87.5°	0.0	0.0	2.1	3.2	5.4	7.5	10.7	8.6	3.2	1.1
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°
5795.7	0°	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7	5795.7
5777.5	2.5°	5806.5	5800.0	5821.5	5830.1	5841.9	5796.8	5768.9	5770.0	5718.5
5712.1	5°	5746.4	5747.5	5775.4	5773.2	5785.0	5760.4	5749.6	5731.4	5686.3
5629.5	7.5°	5670.3	5660.6	5687.4	5707.8	5677.8	5694.9	5670.3	5678.8	5652.0
5556.6	10°	5611.3	5588.8	5613.4	5627.4	5628.4	5611.3	5587.7	5565.2	5555.5
5442.9	12.5°	5480.4	5451.5	5493.3	5512.6	5509.4	5476.1	5449.3	5454.7	5423.6
5243.4	15°	5300.3	5301.3	5331.4	5349.6	5332.4	5324.9	5327.1	5314.2	5287.4
4967.8	17.5°	5024.6	5040.7	5120.1	5164.0	5173.7	5158.7	5151.2	5136.2	5109.3
4528.1	20°	4565.6	4662.1	4803.7	4939.9	4966.7	4962.4	4935.6	4929.2	4914.2
4092.6	22.5°	4162.3	4234.2	4398.3	4610.6	4720.0	4730.8	4698.6	4688.9	4672.8
3703.3	25°	3745.1	3822.4	3970.4	4200.9	4427.2	4473.4	4468.0	4439.0	4421.9
3358.0	27.5°	3393.4	3470.6	3604.6	3812.7	4055.1	4203.1	4217.0	4170.9	4169.8
3050.2	30°	3075.9	3182.1	3284.0	3453.4	3688.3	3910.3	3933.9	3901.7	3904.9
2768.1	32.5°	2827.1	2915.0	3001.9	3115.6	3310.8	3569.3	3661.5	3631.5	3619.7
2533.2	35°	2572.9	2633.0	2722.0	2826.0	2959.0	3215.3	3375.1	3352.6	3340.8
2215.8	37.5°	2283.3	2386.3	2450.6	2567.5	2671.6	2875.3	3100.6	3097.4	3072.7
1945.5	40°	1986.3	2094.6	2192.2	2310.1	2390.6	2552.5	2802.4	2801.3	2804.6
1665.6	42.5°	1717.1	1816.8	1934.8	2063.5	2140.7	2258.7	2526.8	2541.8	2560.0
1435.0	45°	1473.6	1563.7	1673.1	1829.7	1923.0	1990.5	2228.6	2297.3	2296.2
1229.1	47.5°	1254.8	1339.5	1431.8	1584.1	1703.1	1764.2	1961.6	2059.2	2052.7
1008.1	50°	1053.2	1128.3	1224.8	1335.3	1495.1	1548.7	1695.6	1824.3	1814.7
803.3	52.5°	847.3	951.3	1032.8	1133.6	1302.0	1354.6	1468.2	1593.7	1586.2
602.7	55°	660.7	761.5	860.1	947.0	1088.6	1166.9	1248.4	1377.1	1374.9
471.9	57.5°	499.8	610.2	703.6	786.1	898.7	995.3	1060.7	1177.6	1192.6
322.8	60°	370.0	454.7	555.6	647.8	736.8	836.5	880.5	995.3	1001.7
220.9	62.5°	252.0	345.3	444.0	527.7	594.2	697.1	736.8	831.2	843.0
141.6	65°	174.8	234.9	347.5	407.5	489.1	577.0	616.7	691.8	715.4
81.5	67.5°	115.8	167.3	271.3	326.0	406.5	466.5	516.9	578.1	603.8
51.5	70°	63.3	123.3	194.1	257.4	327.1	385.0	434.4	483.7	506.2
23.6	72.5°	42.9	82.6	135.1	203.8	263.8	320.7	364.6	401.1	402.2
13.9	75°	21.4	55.8	103.0	157.7	205.9	261.7	301.4	322.8	297.1
8.6	77.5°	12.9	40.8	83.7	126.6	167.3	211.3	233.8	245.6	203.8
6.4	80°	7.5	29.0	65.4	100.8	115.8	155.5	177.0	180.2	136.2
4.3	82.5°	5.4	21.4	51.5	74.0	70.8	109.4	133.0	128.7	86.9
3.2	85°	3.2	15.0	32.2	46.1	42.9	71.9	77.2	79.4	50.4
2.1	87.5°	2.1	8.6	17.2	24.7	20.4	31.1	31.1	37.5	24.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
5795.7
5652.0
5675.6
5607.0
5512.6
5396.8
5260.6
5097.6
4879.8
4668.6
4403.6
4167.7
3888.9
3620.7
3324.7
3093.1
2804.6
2550.4
2298.3
2054.9
1823.2
1602.3
1380.3
1186.2
1011.4
845.1
710.0
600.6
497.6
392.5
277.8
196.3
127.6
80.4
46.1
21.4
0.0

(END OF REPORT)