

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: P476871

Luminaire Tested: **IFLD-S-SA3C-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476871  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

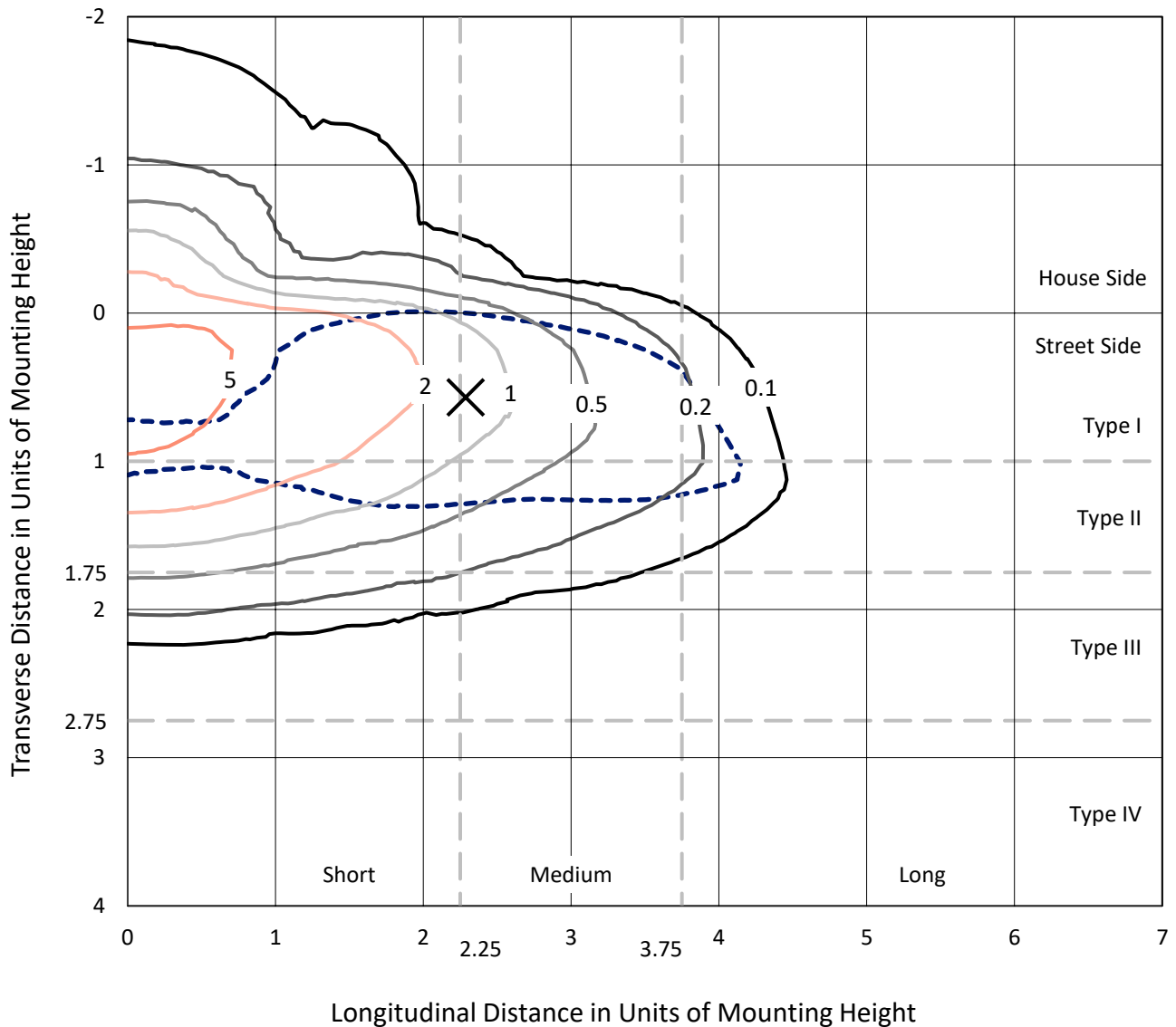
Lumens per Lamp: N/A  
Luminaire Lumens: 17814.1 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 160.8  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

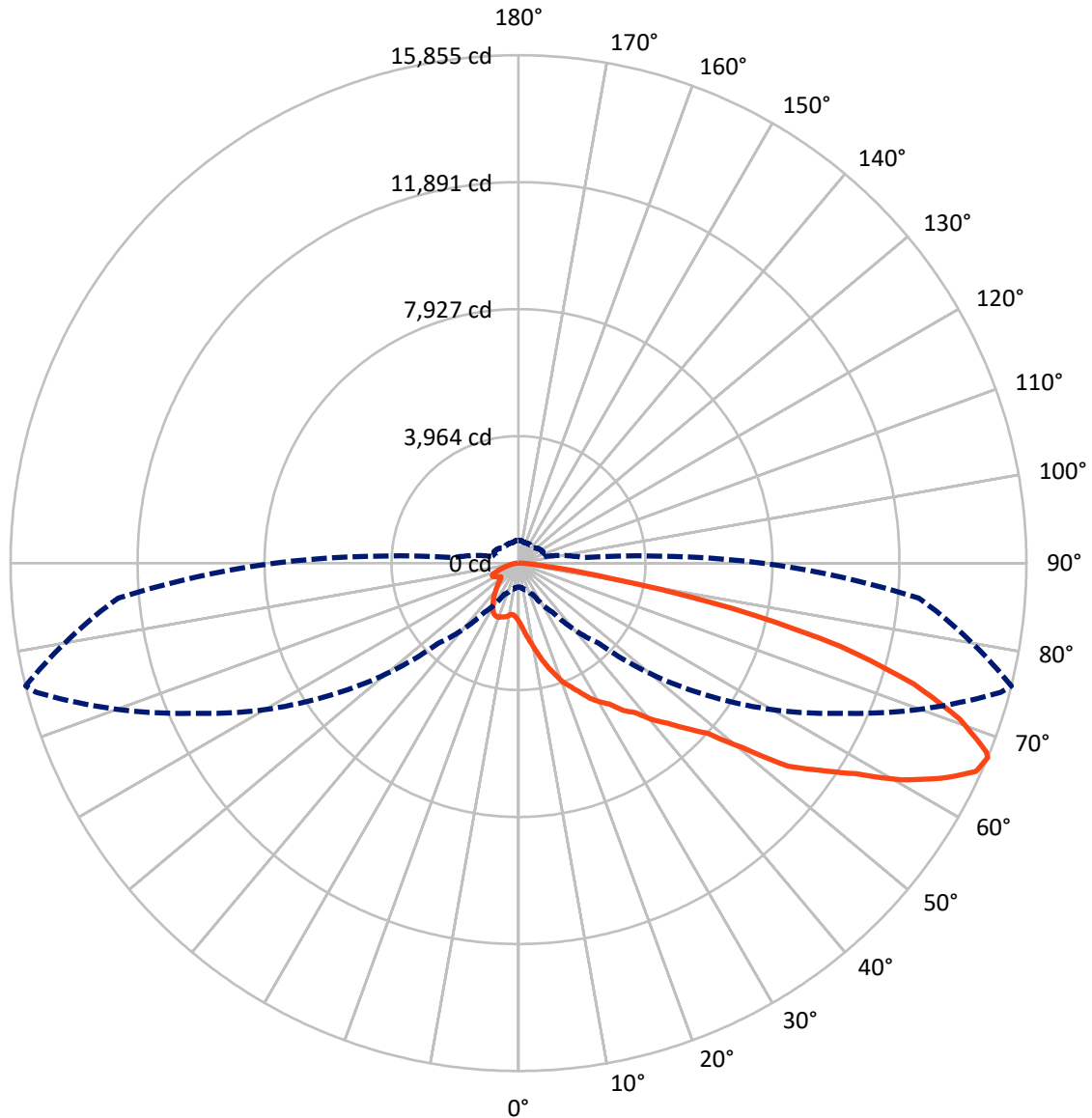
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2534.3	0.0	2534.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	15279.8	0.0	15279.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	17814.1	0.0	17814.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.2	1.2
10°-20°	792.0	4.4
20°-30°	1472.4	8.3
30°-40°	2334.1	13.1
40°-50°	3228.3	18.1
50°-60°	3971.0	22.3
60°-70°	3695.2	20.7
70°-80°	1854.2	10.4
80°-90°	255.7	1.4
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°	17814.1	100.0
0°-180°	17814.1	100.0

**Coefficient of Utilization**



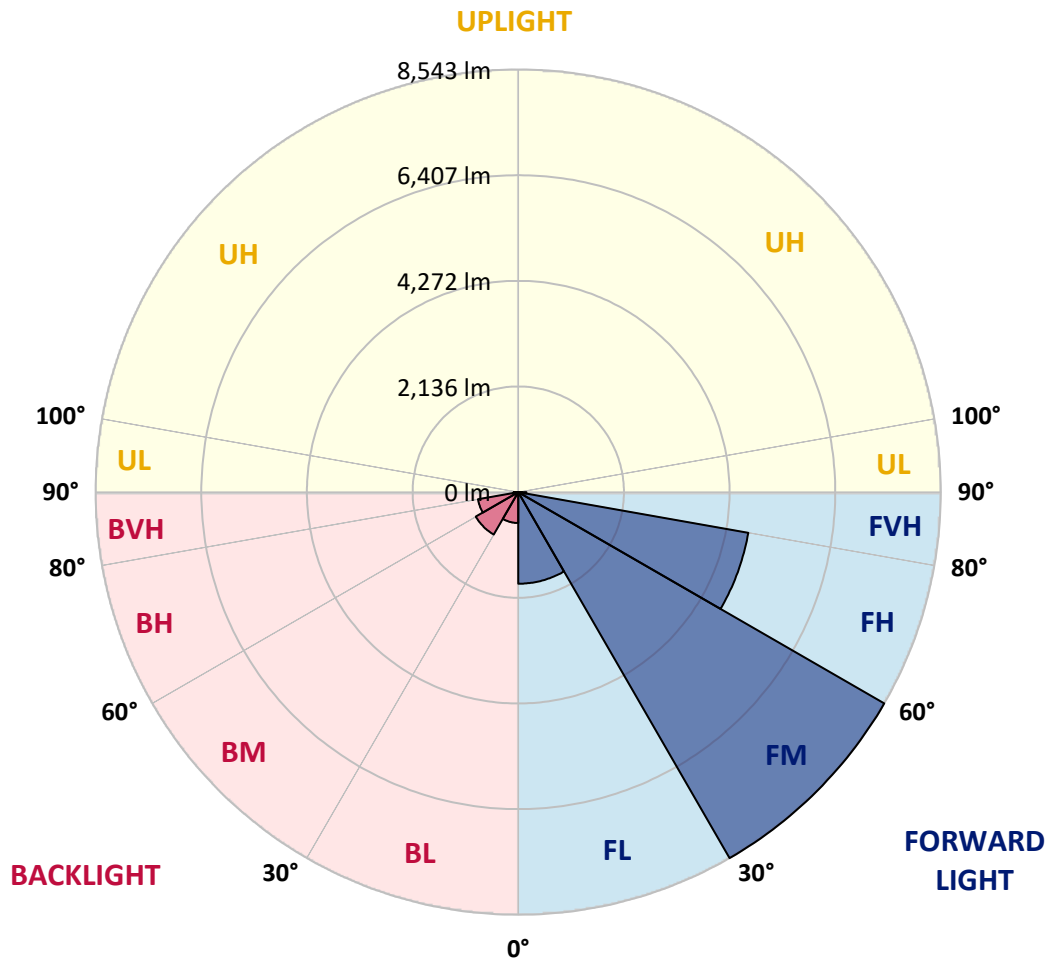
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1851.5	10.4			
FM (30°-60°)	8543.0	48.0			
FH (60°-80°)	4722.4	26.5			G2/5000
FVH (80°-90°)	162.9	0.9			G2/225
BL (0°-30°)	624.1	3.5	B2/1000		
BM (30°-60°)	990.3	5.6	B1/1000		
BH (60°-80°)	827.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	92.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	2529.5	2499.0	2468.6	2403.6	2381.3	2320.4	2208.7	2084.9	1983.4	1969.2	1898.1
5°	3138.5	3093.8	3083.7	3047.1	2931.4	2813.7	2631.0	2432.0	2184.3	2202.6	1959.0
7.5°	3595.2	3568.8	3514.0	3479.5	3410.5	3254.2	3065.4	2801.5	2486.8	2425.9	2095.0
10°	3940.3	3903.8	3901.8	3871.3	3834.8	3674.4	3530.3	3175.0	2771.0	2687.8	2261.5
12.5°	4114.9	4108.8	4216.4	4216.4	4202.2	4135.2	3887.6	3562.8	3041.0	3012.6	2454.3
15°	4303.7	4253.0	4346.4	4417.4	4454.0	4488.5	4283.4	3940.3	3386.1	3331.3	2661.4
17.5°	4303.7	4299.7	4393.1	4510.8	4701.6	4746.3	4634.6	4287.5	3672.4	3631.8	2888.8
20°	4230.6	4289.5	4354.5	4512.8	4719.9	4900.6	4933.1	4642.8	3989.1	3956.6	3146.6
22.5°	4571.7	4514.9	4581.8	4642.8	4803.1	5077.2	5166.5	4955.4	4322.0	4198.2	3380.1
25°	5144.2	5105.6	5056.9	4967.6	5034.6	5154.3	5290.3	5186.8	4606.2	4468.2	3605.4
27.5°	5702.4	5704.5	5598.9	5404.0	5259.9	5284.3	5444.6	5389.8	4845.8	4784.9	3759.7
30°	6496.2	6447.5	6329.7	6065.8	5783.6	5552.2	5525.8	5578.6	5150.3	5032.5	3981.0
32.5°	7091.0	7101.2	6934.7	6555.1	6169.4	5980.6	5749.1	5771.5	5343.1	5255.8	4157.6
35°	7572.1	7560.0	7442.2	7127.5	6670.8	6443.4	6130.8	6002.9	5791.8	5653.7	4427.6
37.5°	8091.8	7992.4	7801.5	7446.3	7153.9	6839.3	6534.8	6246.5	6090.2	5923.7	4659.0
40°	8300.9	8300.9	8045.1	7882.7	7535.6	7298.1	7101.2	6567.2	6453.6	6421.1	4955.4
42.5°	8152.7	8244.1	8138.5	7953.8	7811.7	7511.2	7458.4	6900.2	6902.2	6837.2	5310.6
45°	8138.5	8012.7	7925.4	7972.1	7905.1	7888.8	8022.8	7361.0	7373.2	7365.1	5787.7
47.5°	7730.5	7673.6	7803.6	7880.7	7935.5	8187.2	8573.0	7911.2	7998.4	7937.5	6337.9
50°	7324.5	7314.3	7395.5	7675.7	7913.2	8327.3	9096.7	8759.7	9046.0	9041.9	7334.6
52.5°	6212.0	6319.6	6638.3	7231.1	7817.8	8518.1	9492.6	9843.8	10389.9	10538.1	8160.8
55°	5148.2	5091.4	5562.4	6423.1	7401.6	8593.3	9935.1	10495.4	11299.3	11406.9	9009.4
57.5°	4005.3	4110.9	4482.4	5308.6	6540.9	8221.8	10259.9	11138.9	12326.5	12409.8	9994.0
60°	2988.3	3002.5	3410.5	4076.4	5395.9	7383.3	10365.5	11798.7	13504.0	13741.5	11025.3
62.5°	1879.8	1965.1	2275.7	2931.4	4062.2	6210.0	9892.5	12198.6	14738.2	14801.2	12064.7
65°	1013.0	1067.8	1301.3	1713.4	2838.0	4697.6	8637.9	11959.1	15318.8	15692.4	12527.5
67°	749.1	759.2	866.8	1094.2	1898.1	3536.4	7202.7	11092.3	15582.8	15854.8	12545.8
67.5°	702.4	716.6	801.9	982.5	1682.9	3256.2	6827.1	10783.7	15465.0	15757.3	12403.7
70°	600.9	605.0	625.3	676.0	944.0	1959.0	4648.8	8836.9	14334.3	14614.4	11406.9
72.5°	533.9	538.0	546.1	556.2	639.5	1132.8	2827.9	6800.7	12458.5	12905.1	9841.7
75°	468.9	483.2	487.2	479.1	544.1	736.9	1504.3	4998.0	10162.5	10379.7	7653.3
77.5°	397.9	404.0	412.1	420.2	485.2	550.1	722.7	3374.0	6975.3	6843.3	4139.3
80°	335.0	337.0	343.1	349.2	420.2	420.2	410.1	1823.0	3047.1	2913.1	1398.7
82.5°	239.5	253.8	268.0	284.2	349.2	282.2	268.0	812.0	964.3	917.6	473.0
85°	93.4	113.7	176.6	194.9	221.3	152.3	178.6	351.2	402.0	397.9	176.6
87.5°	16.2	18.3	48.7	75.1	81.2	52.8	85.3	125.9	150.2	162.4	65.0
90°	0.0	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°	180°
0°	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0	1823.0
2.5°	1839.2	1776.3	1701.2	1626.1	1577.4	1500.2	1494.1	1447.4	1441.3	1425.1	1433.2
5°	1853.4	1778.3	1626.1	1506.3	1451.5	1406.8	1417.0	1396.7	1390.6	1380.4	1364.2
7.5°	1965.1	1816.9	1589.5	1486.0	1445.4	1425.1	1425.1	1400.7	1382.5	1394.7	1406.8
10°	2038.2	1835.2	1618.0	1514.4	1481.9	1437.3	1453.5	1423.1	1433.2	1408.9	1408.9
12.5°	2155.9	1938.7	1676.8	1557.1	1504.3	1463.7	1479.9	1445.4	1437.3	1439.3	1433.2
15°	2314.3	2007.7	1703.2	1581.4	1544.9	1494.1	1481.9	1451.5	1421.0	1410.9	1423.1
17.5°	2462.5	2093.0	1721.5	1595.6	1536.8	1479.9	1465.7	1427.1	1417.0	1386.5	1362.2
20°	2639.1	2194.5	1745.9	1607.8	1506.3	1449.5	1412.9	1374.4	1339.8	1321.6	1329.7
22.5°	2756.8	2247.3	1758.0	1583.4	1461.6	1408.9	1331.7	1305.3	1256.6	1236.3	1220.1
25°	2949.7	2312.2	1727.6	1516.5	1382.5	1297.2	1228.2	1191.6	1157.1	1130.7	1122.6
27.5°	2998.4	2361.0	1656.5	1402.8	1256.6	1167.3	1108.4	1063.8	1041.4	1000.8	992.7
30°	3140.5	2312.2	1551.0	1264.7	1136.8	1045.5	986.6	954.1	901.3	891.2	868.9
32.5°	3231.9	2326.5	1417.0	1130.7	998.8	917.6	879.0	846.5	832.3	783.6	771.4
35°	3384.1	2277.7	1281.0	1006.9	885.1	822.2	789.7	779.5	732.9	710.5	690.2
37.5°	3481.6	2249.3	1145.0	866.8	761.3	734.9	745.0	702.4	645.6	602.9	588.7
40°	3652.1	2239.2	990.7	751.1	676.0	669.9	702.4	621.2	517.7	481.1	460.8
42.5°	3897.7	2170.1	870.9	647.6	609.0	635.4	641.5	517.7	458.8	428.3	414.1
45°	4133.2	2184.3	753.2	535.9	529.8	568.4	554.2	438.5	404.0	381.7	393.8
47.5°	4585.9	2255.4	637.4	446.6	477.1	513.6	430.4	391.8	359.3	343.1	345.1
50°	5286.3	2324.4	535.9	408.0	450.7	464.9	369.5	355.3	353.2	320.7	318.7
52.5°	5706.5	2298.0	517.7	456.8	483.2	464.9	402.0	391.8	375.6	361.4	345.1
55°	6374.4	2375.2	556.2	533.9	548.1	446.6	450.7	446.6	434.4	397.9	408.0
57.5°	6906.3	2425.9	607.0	596.8	588.7	464.9	471.0	473.0	464.9	448.6	462.9
60°	7637.1	2527.4	659.8	661.8	663.8	505.5	515.6	527.8	525.8	519.7	523.8
62.5°	8085.7	2480.7	718.6	751.1	741.0	588.7	586.7	594.8	594.8	605.0	611.0
65°	8018.7	2308.2	749.1	830.3	777.5	649.6	649.6	653.7	655.7	676.0	678.0
67°	7616.8	1999.6	732.9	842.5	777.5	674.0	674.0	678.0	663.8	716.6	700.4
67.5°	7430.0	1908.3	718.6	832.3	771.4	672.0	672.0	674.0	661.8	712.6	696.3
70°	6461.7	1417.0	619.2	736.9	714.6	653.7	653.7	641.5	631.3	698.3	684.1
72.5°	5515.7	1029.2	497.4	627.3	645.6	629.3	633.4	602.9	574.5	621.2	609.0
75°	4224.6	757.2	387.7	483.2	546.1	588.7	615.1	538.0	501.4	513.6	491.3
77.5°	2356.9	493.3	306.5	357.3	416.2	548.1	590.7	485.2	410.1	395.9	395.9
80°	799.8	288.3	225.3	265.9	286.2	485.2	552.2	393.8	322.8	308.6	298.4
82.5°	302.5	176.6	154.3	182.7	182.7	383.7	450.7	302.5	243.6	314.7	320.7
85°	138.0	105.6	101.5	105.6	105.6	235.5	318.7	196.9	219.2	188.8	166.5
87.5°	54.8	50.8	46.7	44.7	36.5	40.6	109.6	52.8	99.5	26.4	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)