

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: P480797

Luminaire Tested: **IFLD-L-SA7D-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480797  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

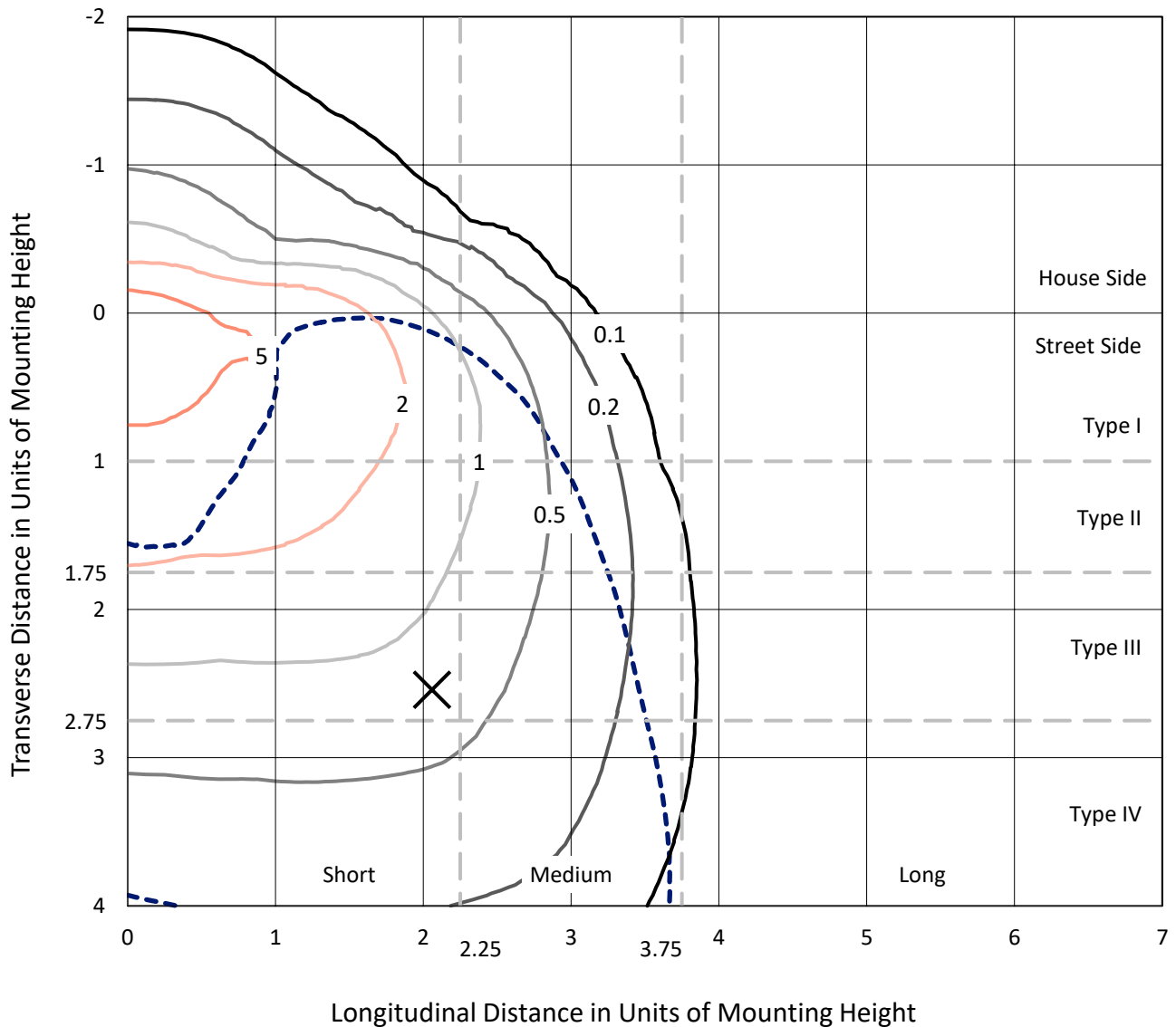
Lumens per Lamp: N/A  
Luminaire Lumens: 39459.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

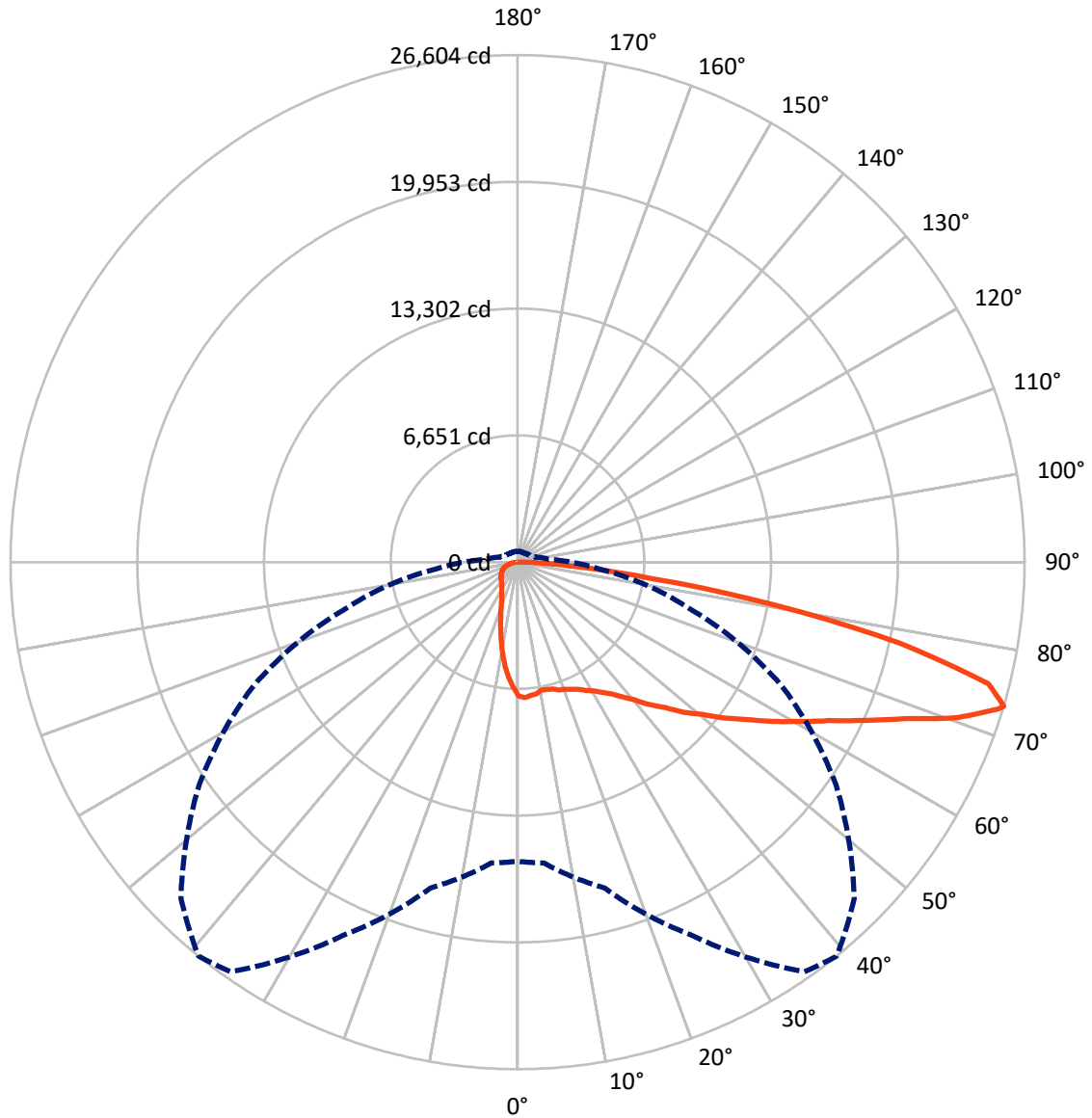
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P480797  
CATALOG NUMBER: IFLD-L-SA7D-727-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5546.8	0.0	5546.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	33912.3	0.0	33912.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	39459.1	0.0	39459.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.7	1.5
10°-20°	1550.0	3.9
20°-30°	2368.6	6.0
30°-40°	3453.5	8.8
40°-50°	5218.6	13.2
50°-60°	7556.9	19.2
60°-70°	9601.4	24.3
70°-80°	7783.4	19.7
80°-90°	1316.9	3.3
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°	39459.1	100.0
0°-180°	39459.1	100.0

**Coefficient of Utilization**



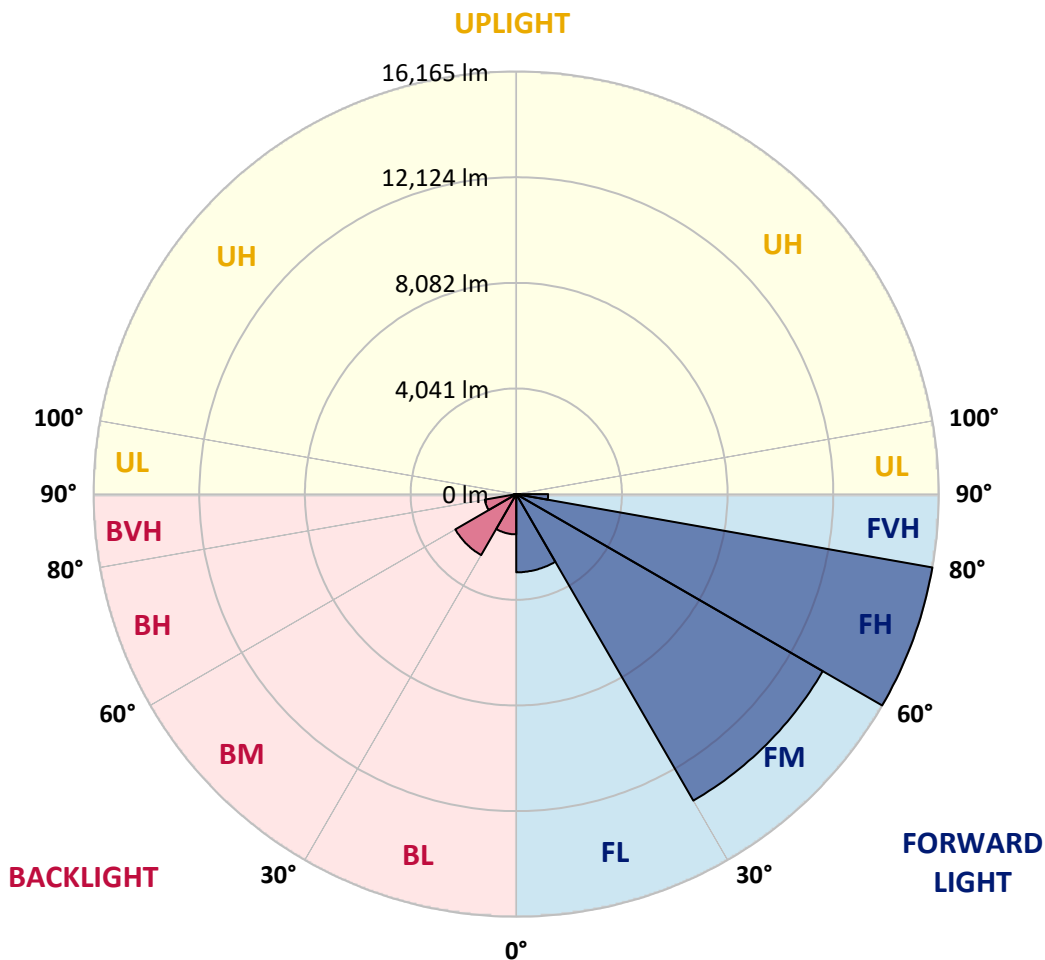
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 CATALOG NUMBER: IFLD-L-SA7D-727-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2990.1	7.6			
FM (30°-60°)	13537.0	34.3			
FH (60°-80°)	16164.8	41.0			G5
FVH (80°-90°)	1220.3	3.1			G5
BL (0°-30°)	1538.3	3.9	B3/2500		
BM (30°-60°)	2692.0	6.8	B3/5000		
BH (60°-80°)	1220.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	96.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P480797

CATALOG NUMBER: IFLD-L-SA7D-727-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0
2.5°	7191.7	7116.7	7129.9	7103.4	7129.9	7121.1	7107.9	7041.6	7107.9	7041.6	7024.0
5°	7094.6	7094.6	7138.8	7072.5	7081.4	7037.2	7081.4	7032.8	6988.7	6878.3	6847.4
7.5°	7063.7	7059.3	7063.7	6971.0	7015.1	6988.7	6944.5	6891.5	6803.2	6732.6	6631.1
10°	6851.8	6895.9	6847.4	6873.9	6909.2	6829.7	6825.3	6812.1	6772.3	6679.6	6617.8
12.5°	6737.0	6812.1	6838.5	6816.5	6847.4	6856.2	6829.7	6812.1	6763.5	6701.7	6525.1
15°	6785.6	6697.3	6772.3	6918.0	6887.1	6909.2	6913.6	6895.9	6873.9	6759.1	6644.3
17.5°	6798.8	6745.8	6904.8	6935.7	6975.4	7054.9	7001.9	6997.5	6913.6	6834.1	6666.4
20°	6829.7	6807.6	6935.7	7099.0	7103.4	7116.7	7143.2	7076.9	7032.8	6895.9	6639.9
22.5°	6944.5	7019.6	7138.8	7209.4	7249.1	7258.0	7258.0	7125.5	7076.9	6966.6	6763.5
25°	7288.9	7209.4	7377.2	7461.0	7403.6	7390.4	7359.5	7240.3	7187.3	7090.2	6820.9
27.5°	7540.5	7536.1	7633.2	7748.0	7593.5	7624.4	7514.0	7478.7	7359.5	7306.5	6922.4
30°	7884.9	7982.0	7977.6	8012.9	7809.8	7845.1	7703.9	7637.6	7571.4	7602.3	7222.6
32.5°	8326.3	8291.0	8348.4	8321.9	8118.8	8149.7	7982.0	7880.4	7902.5	7995.2	7633.2
35°	8608.9	8573.6	8595.6	8595.6	8533.8	8498.5	8427.9	8295.4	8401.4	8573.6	8092.4
37.5°	8913.5	8957.7	9085.7	9059.2	8979.7	8979.7	8970.9	8878.2	9015.1	9438.9	8825.2
40°	9182.8	9302.0	9381.5	9434.5	9527.2	9527.2	9602.2	9549.2	9796.5	10476.4	9721.4
42.5°	9465.4	9469.8	9902.4	9942.2	10149.7	10238.0	10295.3	10339.5	10803.1	11562.4	10679.4
45°	9827.4	9849.5	10229.1	10533.7	10856.0	10886.9	11103.3	11248.9	11818.5	12750.0	11721.3
47.5°	10304.2	10277.7	10683.9	11169.5	11571.2	11783.1	12043.6	12202.5	12904.5	14039.1	12860.4
50°	10931.1	10851.6	11085.6	11849.4	12321.7	12555.7	13019.3	13284.2	14105.3	15270.8	13641.8
52.5°	11694.8	11562.4	11747.8	12582.2	13112.0	13584.4	14025.9	14321.7	15178.1	16224.4	14220.1
55°	12502.8	12229.0	12282.0	13359.2	14123.0	14568.9	15173.7	15482.8	16356.9	17080.9	14798.5
57.5°	13301.8	13129.7	13023.7	14105.3	15328.2	15756.5	16312.7	16714.5	17456.2	17840.3	15288.5
60°	13972.9	13928.7	13756.6	15262.0	16604.1	16970.5	17553.3	17800.5	18361.2	18542.2	15297.3
62.5°	14524.7	14374.6	14648.4	16193.5	17902.1	18317.1	18957.2	18979.3	19376.6	18979.3	14847.0
65°	14957.4	14966.2	15403.3	17319.3	19403.1	20016.8	20533.3	20475.9	20219.9	18718.8	13783.1
67.5°	15350.3	15518.1	16158.2	18555.5	21332.4	21910.7	22484.7	21725.3	20449.4	17500.3	11703.7
70°	15659.3	15827.1	17178.0	20060.9	23606.0	24453.7	24581.7	22219.8	19394.3	14824.9	8829.6
72.5°	15624.0	15928.7	17756.4	21261.7	25623.6	26356.4	25323.4	20829.1	16158.2	10335.1	5152.1
73°	15699.1	15849.2	17707.8	21597.3	26237.2	26603.7	24979.0	20392.0	15239.9	9271.1	4357.4
75°	14251.0	14758.7	16829.3	21049.8	25579.4	25513.2	23001.2	16992.6	10834.0	4869.5	2110.3
77.5°	10542.6	10864.9	13262.1	17310.5	20996.9	20573.0	17350.2	10860.4	5143.3	1805.7	1139.0
80°	5152.1	5403.7	7028.4	9995.1	13730.1	13765.4	10767.7	5651.0	2203.0	1019.8	777.0
82.5°	2573.8	2723.9	3377.3	4392.7	6754.7	7076.9	5461.1	3214.0	1364.2	578.3	441.5
85°	1682.0	1788.0	2079.4	2150.0	2865.2	3024.1	2542.9	2507.6	887.4	313.5	357.6
87.5°	1116.9	1134.6	1275.9	1086.0	1147.9	1103.7	1227.3	1580.5	260.5	132.4	97.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480797  
 CATALOG NUMBER: IFLD-L-SA7D-727-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0	7024.0
2.5°	7001.9	6940.1	6873.9	6781.2	6714.9	6613.4	6520.7	6480.9	6472.1	6476.5	6432.4
5°	6820.9	6732.6	6600.1	6410.3	6299.9	6132.2	5990.9	5915.9	5836.4	5849.6	5814.3
7.5°	6569.2	6472.1	6269.0	6048.3	5774.6	5536.2	5403.7	5218.3	5112.4	5032.9	5077.0
10°	6489.8	6322.0	6017.4	5712.8	5288.9	4975.5	4670.9	4459.0	4313.3	4172.0	4233.8
12.5°	6450.0	6282.3	5858.5	5408.1	4860.7	4383.9	3955.7	3695.2	3487.7	3364.1	3412.7
15°	6414.7	6207.2	5708.4	5072.6	4459.0	3832.1	3350.8	3006.5	2807.8	2688.6	2701.9
17.5°	6463.3	6167.5	5487.6	4745.9	4017.5	3346.4	2812.2	2454.6	2251.6	2176.5	2158.8
20°	6414.7	6123.3	5271.3	4419.2	3576.0	2882.9	2370.8	2075.0	1933.7	1871.9	1858.6
22.5°	6432.4	6017.4	5046.1	4057.2	3165.4	2494.4	2075.0	1849.8	1739.4	1708.5	1717.4
25°	6516.3	5955.6	4821.0	3659.9	2759.3	2207.4	1885.1	1712.9	1633.5	1602.6	1611.4
27.5°	6578.1	6008.6	4617.9	3284.6	2414.9	1951.3	1726.2	1611.4	1558.4	1536.4	1531.9
30°	6732.6	6039.5	4419.2	2949.1	2132.4	1783.6	1615.8	1523.1	1487.8	1474.5	1470.1
32.5°	6962.2	6096.9	4189.7	2640.1	1924.9	1624.7	1527.5	1448.1	1439.2	1426.0	1430.4
35°	7337.4	6295.5	3933.6	2375.2	1726.2	1518.7	1434.8	1381.8	1381.8	1381.8	1395.1
37.5°	7876.0	6573.7	3704.0	2123.5	1598.2	1426.0	1355.3	1337.7	1328.9	1342.1	1350.9
40°	8569.2	6909.2	3518.6	1924.9	1487.8	1364.2	1302.4	1293.5	1289.1	1284.7	1293.5
42.5°	9328.5	7337.4	3359.7	1770.3	1408.3	1298.0	1253.8	1245.0	1227.3	1236.1	1249.4
45°	10083.4	7867.2	3218.4	1646.7	1355.3	1262.6	1200.8	1196.4	1187.6	1183.2	1205.2
47.5°	10922.3	8388.1	3174.3	1571.7	1315.6	1209.7	1165.5	1161.1	1134.6	1130.2	1147.9
50°	11575.6	8772.2	3222.8	1536.4	1258.2	1169.9	1139.0	1116.9	1094.9	1072.8	1072.8
52.5°	12026.0	9037.1	3258.1	1509.9	1227.3	1116.9	1077.2	1068.4	1046.3	1024.2	1015.4
55°	12432.1	9196.1	3267.0	1514.3	1196.4	1055.1	1028.7	1024.2	1011.0	975.7	966.8
57.5°	12569.0	9129.8	3090.4	1474.5	1178.8	1015.4	980.1	988.9	971.3	940.4	935.9
60°	12555.7	8670.7	2688.6	1421.6	1139.0	971.3	927.1	953.6	953.6	918.3	913.9
62.5°	11792.0	7611.1	2198.6	1320.0	1094.9	927.1	878.5	918.3	931.5	909.5	905.0
65°	10207.1	6198.4	1836.6	1218.5	1028.7	878.5	830.0	874.1	896.2	887.4	883.0
67.5°	8445.5	4741.5	1527.5	1086.0	944.8	812.3	772.6	803.5	816.7	821.2	825.6
70°	5968.8	3156.6	1275.9	940.4	830.0	741.7	697.5	702.0	697.5	710.8	710.8
72.5°	3244.9	1818.9	1037.5	799.1	715.2	644.6	613.7	591.6	591.6	587.2	587.2
73°	2776.9	1633.5	988.9	777.0	684.3	626.9	591.6	573.9	573.9	569.5	565.1
75°	1558.4	1196.4	847.6	666.6	591.6	547.4	520.9	494.5	490.0	490.0	490.0
77.5°	1024.2	931.5	675.5	534.2	476.8	437.1	428.2	401.7	401.7	401.7	397.3
80°	768.2	732.9	520.9	406.2	366.4	335.5	326.7	309.0	304.6	287.0	291.4
82.5°	512.1	578.3	379.7	287.0	247.2	229.6	229.6	225.2	211.9	189.8	189.8
85°	406.2	472.4	273.7	176.6	145.7	123.6	128.0	123.6	119.2	97.1	92.7
87.5°	75.1	189.8	79.5	48.6	35.3	22.1	22.1	13.2	8.8	0.0	0.0
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)