

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: P480796

Luminaire Tested: **IFLD-L-SA7C-727-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480796  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-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**

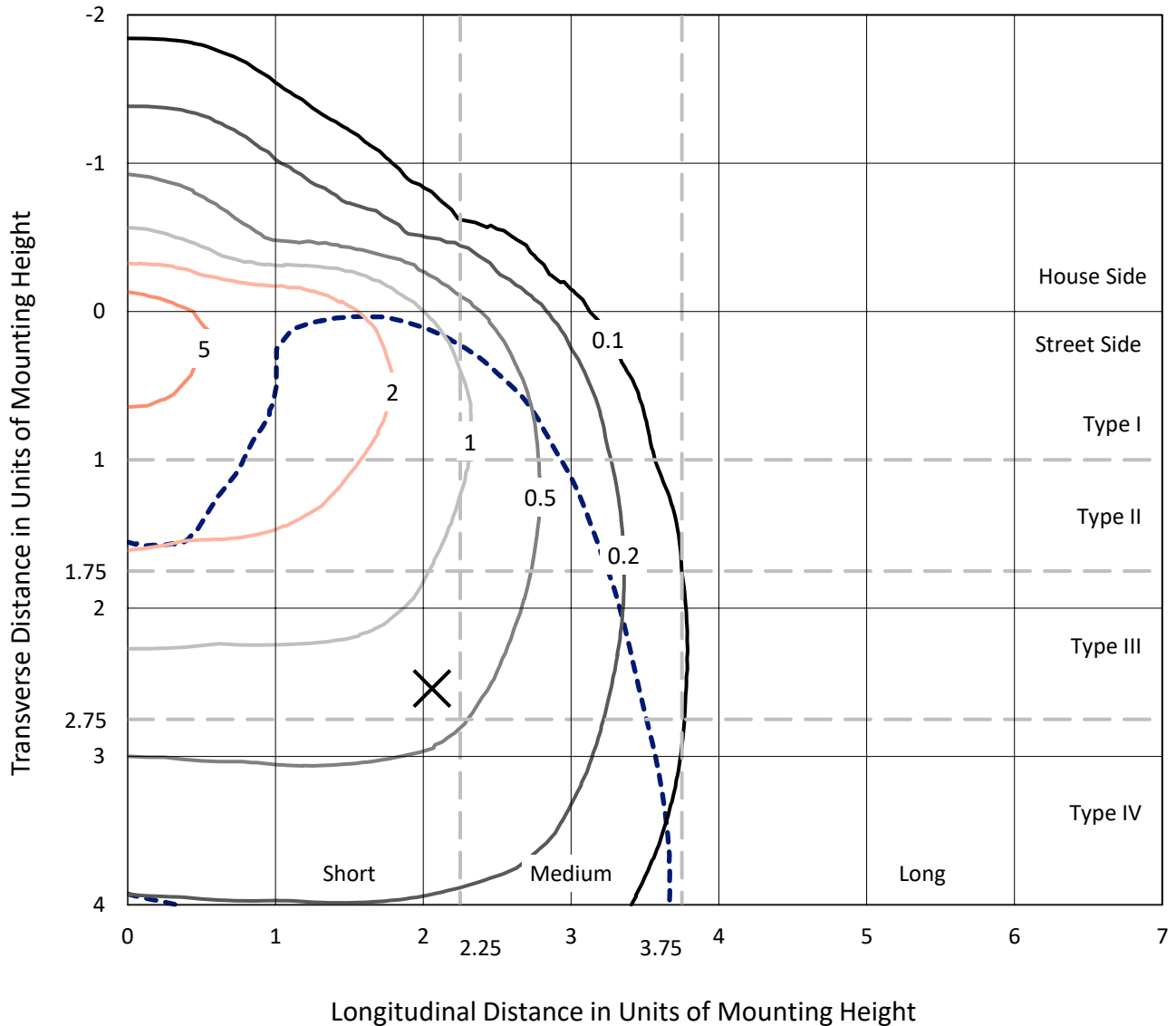
Lumens per Lamp: N/A  
Luminaire Lumens: 35860.8 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 369  
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

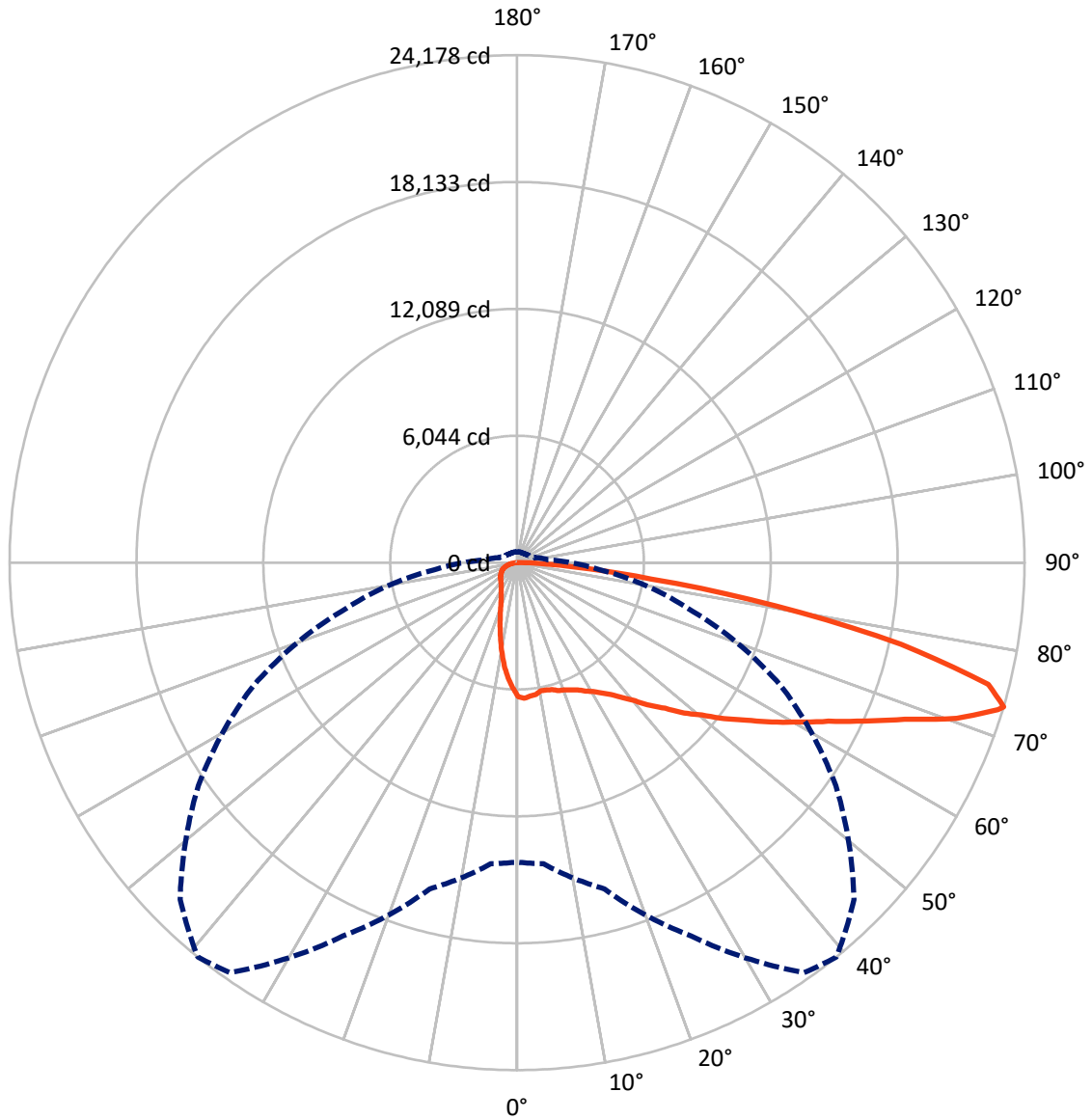
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### 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	5041.0	0.0	5041.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	30819.8	0.0	30819.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	35860.8	0.0	35860.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	554.1	1.5
10°-20°	1408.7	3.9
20°-30°	2152.6	6.0
30°-40°	3138.6	8.8
40°-50°	4742.7	13.2
50°-60°	6867.8	19.2
60°-70°	8725.8	24.3
70°-80°	7073.6	19.7
80°-90°	1196.8	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°	35860.8	100.0
0°-180°	35860.8	100.0

**Coefficient of Utilization**



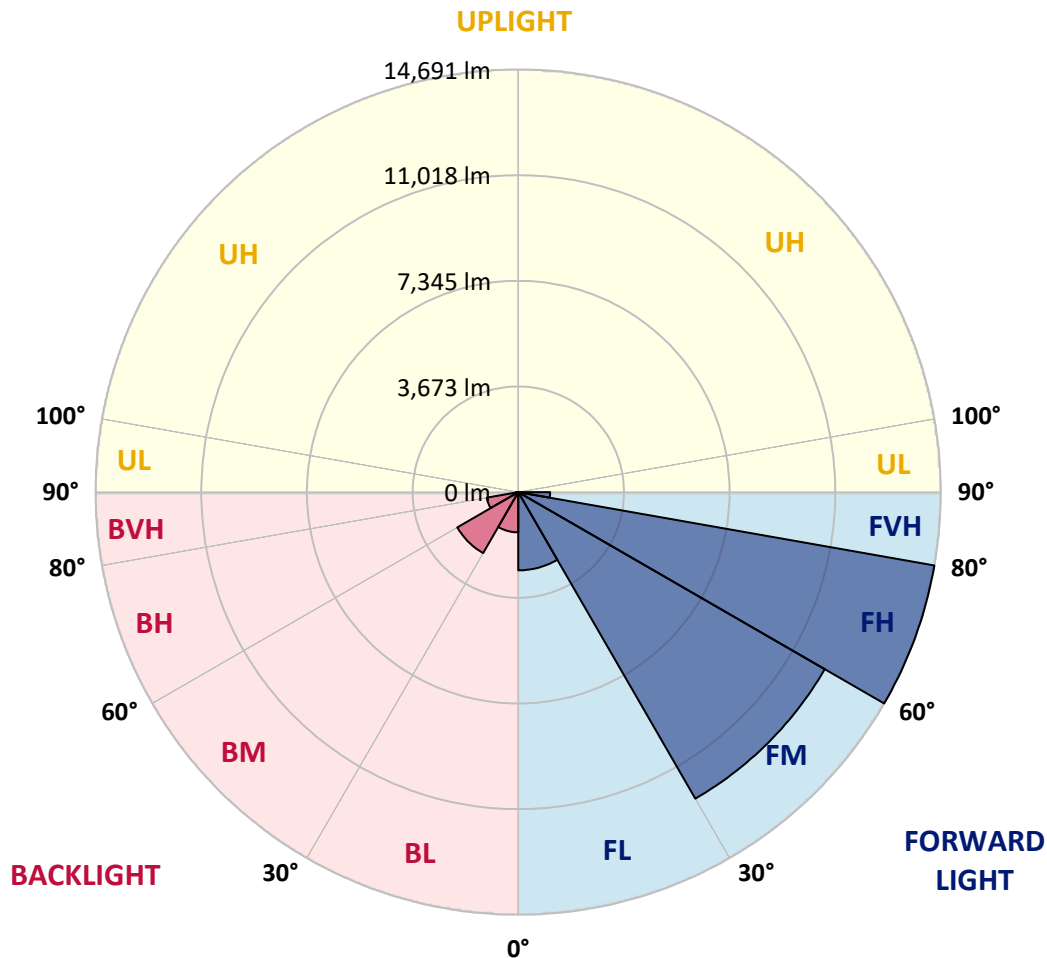
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2717.5	7.6			
FM (30°-60°)	12302.6	34.3			
FH (60°-80°)	14690.8	41.0			G5
FVH (80°-90°)	1109.0	3.1			G5
BL (0°-30°)	1398.0	3.9	B3/2500		
BM (30°-60°)	2446.5	6.8	B2/2500		
BH (60°-80°)	1108.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	87.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4
2.5°	6535.9	6467.7	6479.7	6455.7	6479.7	6471.7	6459.7	6399.5	6459.7	6399.5	6383.4
5°	6447.6	6447.6	6487.8	6427.6	6435.6	6395.5	6435.6	6391.5	6351.3	6251.0	6223.0
7.5°	6419.6	6415.5	6419.6	6335.3	6375.4	6351.3	6311.2	6263.1	6182.8	6118.6	6026.4
10°	6227.0	6267.1	6223.0	6247.0	6279.1	6206.9	6202.9	6190.9	6154.8	6070.5	6014.3
12.5°	6122.7	6190.9	6214.9	6194.9	6223.0	6231.0	6206.9	6190.9	6146.7	6090.6	5930.1
15°	6166.8	6086.5	6154.8	6287.2	6259.1	6279.1	6283.1	6267.1	6247.0	6142.7	6038.4
17.5°	6178.8	6130.7	6275.1	6303.2	6339.3	6411.5	6363.4	6359.4	6283.1	6210.9	6058.5
20°	6206.9	6186.8	6303.2	6451.7	6455.7	6467.7	6491.8	6431.6	6391.5	6267.1	6034.4
22.5°	6311.2	6379.4	6487.8	6552.0	6588.1	6596.1	6596.1	6475.7	6431.6	6331.3	6146.7
25°	6624.2	6552.0	6704.4	6780.7	6728.5	6716.5	6688.4	6580.0	6531.9	6443.6	6198.9
27.5°	6852.9	6848.9	6937.1	7041.5	6901.0	6929.1	6828.8	6796.7	6688.4	6640.2	6291.2
30°	7165.8	7254.1	7250.1	7282.2	7097.6	7129.7	7001.3	6941.1	6881.0	6909.0	6564.0
32.5°	7567.1	7535.0	7587.1	7563.0	7378.5	7406.6	7254.1	7161.8	7181.9	7266.1	6937.1
35°	7823.8	7791.7	7811.8	7811.8	7755.6	7723.5	7659.3	7539.0	7635.3	7791.7	7354.4
37.5°	8100.7	8140.8	8257.2	8233.1	8160.9	8160.9	8152.8	8068.6	8193.0	8578.1	8020.4
40°	8345.4	8453.8	8526.0	8574.1	8658.4	8658.4	8726.6	8678.4	8903.1	9521.0	8834.9
42.5°	8602.2	8606.2	8999.4	9035.5	9224.1	9304.3	9356.5	9396.6	9817.9	10508.0	9705.6
45°	8931.2	8951.3	9296.3	9573.2	9866.1	9894.1	10090.7	10223.1	10740.7	11587.3	10652.5
47.5°	9364.5	9340.5	9709.6	10150.9	10516.0	10708.6	10945.3	11089.8	11727.7	12758.9	11687.6
50°	9934.3	9862.0	10074.7	10768.8	11198.1	11410.8	11832.0	12072.8	12819.1	13878.3	12397.8
52.5°	10628.4	10508.0	10676.5	11434.8	11916.3	12345.6	12746.8	13015.7	13794.0	14744.9	12923.4
55°	11362.6	11113.9	11162.0	12141.0	12835.1	13240.3	13790.0	14070.9	14865.3	15523.3	13449.0
57.5°	12088.8	11932.4	11836.1	12819.1	13930.4	14319.6	14825.2	15190.3	15864.3	16213.4	13894.3
60°	12698.7	12658.6	12502.1	13870.3	15090.0	15423.0	15952.6	16177.3	16686.8	16851.3	13902.4
62.5°	13200.2	13063.8	13312.6	14716.8	16269.6	16646.7	17228.5	17248.5	17609.6	17248.5	13493.1
65°	13593.4	13601.4	13998.6	15740.0	17633.7	18191.4	18660.8	18608.7	18376.0	17011.8	12526.2
67.5°	13950.5	14103.0	14684.7	16863.4	19387.1	19912.7	20434.3	19744.1	18584.6	15904.5	10636.4
70°	14231.4	14383.8	15611.6	18231.5	21453.4	22223.7	22340.1	20193.5	17625.7	13473.0	8024.4
72.5°	14199.3	14476.1	16137.2	19322.9	23286.9	23953.0	23014.1	18929.7	14684.7	9392.6	4682.3
73°	14267.5	14403.9	16093.0	19627.8	23844.6	24177.7	22701.2	18532.5	13850.2	8425.7	3960.1
75°	12951.5	13412.9	15294.6	19130.3	23246.8	23186.6	20903.7	15443.0	9846.0	4425.5	1917.8
77.5°	9581.2	9874.1	12052.7	15731.9	19082.1	18697.0	15768.0	9870.1	4674.2	1641.0	1035.2
80°	4682.3	4911.0	6387.5	9083.7	12478.0	12510.1	9785.8	5135.6	2002.1	926.8	706.2
82.5°	2339.1	2475.5	3069.4	3992.2	6138.7	6431.6	4963.1	2920.9	1239.8	525.6	401.2
85°	1528.7	1625.0	1889.8	1954.0	2603.9	2748.4	2311.0	2278.9	806.5	284.9	325.0
87.5°	1015.1	1031.1	1159.5	987.0	1043.2	1003.1	1115.4	1436.4	236.7	120.4	88.3
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°	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4	6383.4
2.5°	6363.4	6307.2	6247.0	6162.8	6102.6	6010.3	5926.1	5889.9	5881.9	5885.9	5845.8
5°	6198.9	6118.6	5998.3	5825.7	5725.4	5573.0	5444.6	5376.4	5304.2	5316.2	5284.1
7.5°	5970.2	5881.9	5697.4	5496.7	5248.0	5031.3	4911.0	4742.4	4646.2	4573.9	4614.1
10°	5898.0	5745.5	5468.7	5191.8	4806.6	4521.8	4244.9	4052.3	3919.9	3791.6	3847.7
12.5°	5861.9	5709.4	5324.2	4915.0	4417.5	3984.1	3595.0	3358.2	3169.7	3057.3	3101.4
15°	5829.8	5641.2	5187.8	4610.0	4052.3	3482.6	3045.3	2732.3	2551.8	2443.4	2455.5
17.5°	5873.9	5605.1	4987.2	4313.1	3651.1	3041.3	2555.8	2230.8	2046.2	1978.0	1962.0
20°	5829.8	5565.0	4790.6	4016.2	3249.9	2620.0	2154.6	1885.7	1757.4	1701.2	1689.1
22.5°	5845.8	5468.7	4586.0	3687.2	2876.8	2266.9	1885.7	1681.1	1580.8	1552.7	1560.8
25°	5922.0	5412.5	4381.3	3326.1	2507.6	2006.1	1713.2	1556.7	1484.5	1456.4	1464.5
27.5°	5978.2	5460.6	4196.8	2985.1	2194.7	1773.4	1568.8	1464.5	1416.3	1396.3	1392.2
30°	6118.6	5488.7	4016.2	2680.2	1937.9	1620.9	1468.5	1384.2	1352.1	1340.1	1336.1
32.5°	6327.3	5540.9	3807.6	2399.3	1749.3	1476.5	1388.2	1316.0	1308.0	1295.9	1300.0
35°	6668.3	5721.4	3574.9	2158.6	1568.8	1380.2	1304.0	1255.8	1255.8	1255.8	1267.9
37.5°	7157.8	5974.2	3366.3	1929.9	1452.4	1295.9	1231.8	1215.7	1207.7	1219.7	1227.7
40°	7787.7	6279.1	3197.7	1749.3	1352.1	1239.8	1183.6	1175.6	1171.6	1167.6	1175.6
42.5°	8477.8	6668.3	3053.3	1608.9	1279.9	1179.6	1139.5	1131.4	1115.4	1123.4	1135.5
45°	9163.9	7149.8	2924.9	1496.6	1231.8	1147.5	1091.3	1087.3	1079.3	1075.3	1095.3
47.5°	9926.2	7623.2	2884.8	1428.4	1195.6	1099.3	1059.2	1055.2	1031.1	1027.1	1043.2
50°	10520.0	7972.3	2928.9	1396.3	1143.5	1063.2	1035.2	1015.1	995.0	975.0	975.0
52.5°	10929.3	8213.0	2961.0	1372.2	1115.4	1015.1	979.0	971.0	950.9	930.8	922.8
55°	11298.4	8357.5	2969.0	1376.2	1087.3	958.9	934.8	930.8	918.8	886.7	878.7
57.5°	11422.8	8297.3	2808.6	1340.1	1071.3	922.8	890.7	898.7	882.7	854.6	850.6
60°	11410.8	7880.0	2443.4	1291.9	1035.2	882.7	842.6	866.6	866.6	834.5	830.5
62.5°	10716.6	6917.1	1998.1	1199.7	995.0	842.6	798.4	834.5	846.6	826.5	822.5
65°	9276.3	5633.2	1669.1	1107.4	934.8	798.4	754.3	794.4	814.5	806.5	802.4
67.5°	7675.4	4309.1	1388.2	987.0	858.6	738.2	702.1	730.2	742.3	746.3	750.3
70°	5424.5	2868.7	1159.5	854.6	754.3	674.1	633.9	637.9	633.9	646.0	646.0
72.5°	2949.0	1653.0	942.9	726.2	650.0	585.8	557.7	537.6	537.6	533.6	533.6
73°	2523.7	1484.5	898.7	706.2	621.9	569.7	537.6	521.6	521.6	517.6	513.6
75°	1416.3	1087.3	770.3	605.8	537.6	497.5	473.4	449.4	445.4	445.4	445.4
77.5°	930.8	846.6	613.9	485.5	433.3	397.2	389.2	365.1	365.1	365.1	361.1
80°	698.1	666.0	473.4	369.1	333.0	304.9	296.9	280.9	276.8	260.8	264.8
82.5°	465.4	525.6	345.1	260.8	224.7	208.6	208.6	204.6	192.6	172.5	172.5
85°	369.1	429.3	248.8	160.5	132.4	112.3	116.4	112.3	108.3	88.3	84.3
87.5°	68.2	172.5	72.2	44.1	32.1	20.1	20.1	12.0	8.0	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)