

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: P480917

Luminaire Tested: **IFLD-L-SA8B-740-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480917  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

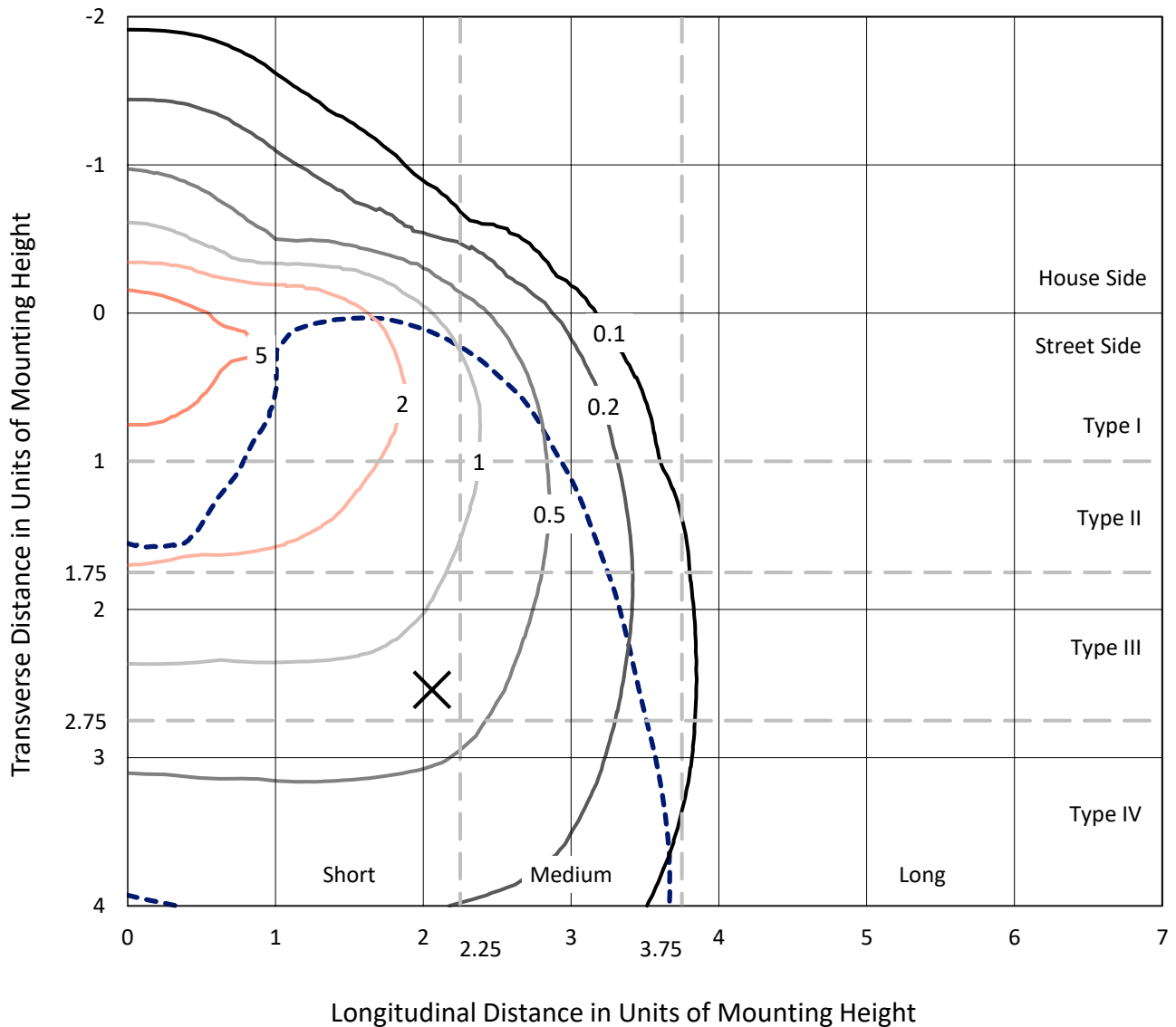
Lumens per Lamp: N/A  
Luminaire Lumens: 39367 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
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

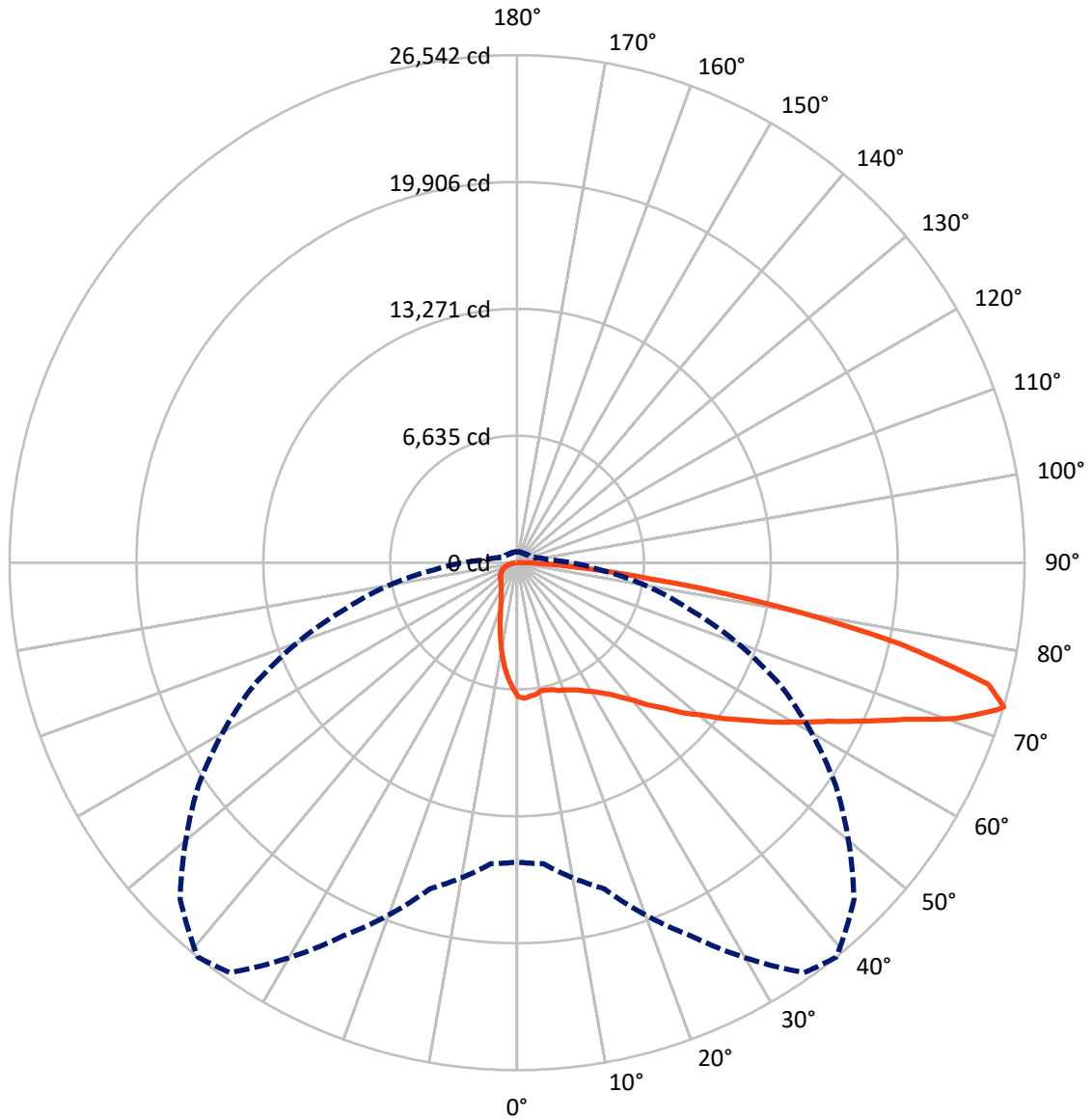
× Max cd  
 - - - 1/2 Max cd



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

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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	5533.9	0.0	5533.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	33833.1	0.0	33833.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	39367.0	0.0	39367.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.3	1.5
10°-20°	1546.4	3.9
20°-30°	2363.1	6.0
30°-40°	3445.5	8.8
40°-50°	5206.5	13.2
50°-60°	7539.2	19.2
60°-70°	9579.0	24.3
70°-80°	7765.2	19.7
80°-90°	1313.8	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°	39367.0	100.0
0°-180°	39367.0	100.0

**Coefficient of Utilization**



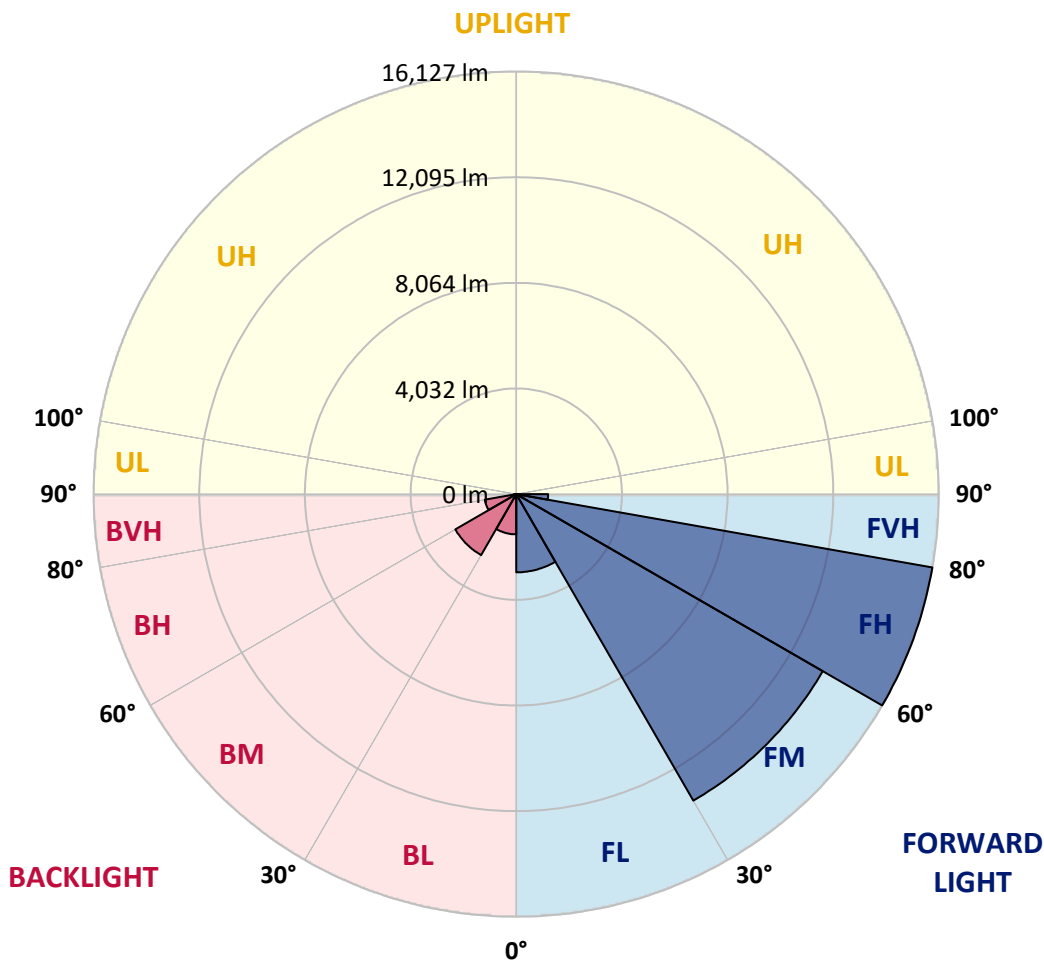
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2983.2	7.6			
FM (30°-60°)	13505.4	34.3			
FH (60°-80°)	16127.1	41.0			G5
FVH (80°-90°)	1217.4	3.1			G5
BL (0°-30°)	1534.7	3.9	B3/2500		
BM (30°-60°)	2685.7	6.8	B3/5000		
BH (60°-80°)	1217.1	3.1	B3/2500		G3/2500
BVH (80°-90°)	96.4	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°	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6
2.5°	7174.9	7100.1	7113.3	7086.9	7113.3	7104.5	7091.3	7025.2	7091.3	7025.2	7007.6
5°	7078.0	7078.0	7122.1	7056.0	7064.8	7020.8	7064.8	7016.4	6972.3	6862.2	6831.4
7.5°	7047.2	7042.8	7047.2	6954.7	6998.8	6972.3	6928.3	6875.4	6787.3	6716.9	6615.6
10°	6835.8	6879.8	6831.4	6857.8	6893.1	6813.8	6809.4	6796.2	6756.5	6664.0	6602.4
12.5°	6721.3	6796.2	6822.6	6800.6	6831.4	6840.2	6813.8	6796.2	6747.7	6686.0	6509.9
15°	6769.7	6681.6	6756.5	6901.9	6871.0	6893.1	6897.5	6879.8	6857.8	6743.3	6628.8
17.5°	6782.9	6730.1	6888.6	6919.5	6959.1	7038.4	6985.5	6981.1	6897.5	6818.2	6650.8
20°	6813.8	6791.7	6919.5	7082.4	7086.9	7100.1	7126.5	7060.4	7016.4	6879.8	6624.4
22.5°	6928.3	7003.2	7122.1	7192.6	7232.2	7241.0	7241.0	7108.9	7060.4	6950.3	6747.7
25°	7271.8	7192.6	7359.9	7443.6	7386.4	7373.1	7342.3	7223.4	7170.5	7073.6	6805.0
27.5°	7522.9	7518.5	7615.4	7729.9	7575.8	7606.6	7496.5	7461.2	7342.3	7289.5	6906.3
30°	7866.4	7963.3	7958.9	7994.2	7791.6	7826.8	7685.9	7619.8	7553.7	7584.6	7205.8
32.5°	8306.9	8271.7	8328.9	8302.5	8099.9	8130.7	7963.3	7862.0	7884.1	7976.6	7615.4
35°	8588.8	8553.6	8575.6	8575.6	8513.9	8478.7	8408.2	8276.1	8381.8	8553.6	8073.5
37.5°	8892.7	8936.7	9064.5	9038.0	8958.8	8958.8	8950.0	8857.5	8994.0	9416.8	8804.6
40°	9161.4	9280.3	9359.6	9412.4	9504.9	9504.9	9579.8	9526.9	9773.6	10451.9	9698.7
42.5°	9443.3	9447.7	9879.3	9918.9	10126.0	10214.0	10271.3	10315.4	10777.8	11535.4	10654.5
45°	9804.4	9826.5	10205.2	10509.2	10830.7	10861.5	11077.3	11222.7	11790.9	12720.2	11694.0
47.5°	10280.1	10253.7	10658.9	11143.4	11544.2	11755.6	12015.5	12174.1	12874.4	14006.3	12830.3
50°	10905.6	10826.3	11059.7	11821.7	12293.0	12526.4	12988.9	13253.2	14072.4	15235.2	13609.9
52.5°	11667.5	11535.4	11720.4	12552.8	13081.4	13552.7	13993.1	14288.2	15142.7	16186.6	14186.9
55°	12473.6	12200.5	12253.3	13328.0	14090.0	14534.9	15138.3	15446.6	16318.7	17041.0	14763.9
57.5°	13270.8	13099.0	12993.3	14072.4	15292.4	15719.7	16274.6	16675.5	17415.4	17798.6	15252.8
60°	13940.3	13896.2	13724.4	15226.4	16565.3	16930.9	17512.3	17759.0	18318.3	18498.9	15261.6
62.5°	14490.8	14341.1	14614.2	16155.7	17860.3	18274.3	18912.9	18935.0	19331.4	18935.0	14812.4
65°	14922.5	14931.3	15367.3	17278.9	19357.8	19970.0	20485.4	20428.1	20172.6	18675.1	13750.9
67.5°	15314.5	15481.8	16120.5	18512.1	21282.6	21859.6	22432.1	21674.6	20401.7	17459.5	11676.3
70°	15622.8	15790.2	17137.9	20014.1	23550.9	24396.6	24524.3	22167.9	19349.0	14790.3	8809.0
72.5°	15587.5	15891.5	17714.9	21212.1	25563.8	26294.9	25264.2	20780.5	16120.5	10310.9	5140.1
73°	15662.4	15812.2	17666.5	21546.8	26176.0	26541.6	24920.7	20344.4	15204.4	9249.5	4347.2
75°	14217.7	14724.3	16790.0	21000.7	25519.7	25453.6	22947.5	16952.9	10808.7	4858.2	2105.4
77.5°	10518.0	10839.5	13231.1	17270.1	20947.8	20525.0	17309.7	10835.1	5131.2	1801.4	1136.4
80°	5140.1	5391.1	7012.0	9971.8	13698.0	13733.2	10742.6	5637.8	2197.8	1017.4	775.2
82.5°	2567.8	2717.6	3369.4	4382.5	6738.9	7060.4	5448.4	3206.5	1361.0	577.0	440.5
85°	1678.1	1783.8	2074.5	2145.0	2858.5	3017.1	2537.0	2501.8	885.3	312.7	356.8
87.5°	1114.3	1132.0	1272.9	1083.5	1145.2	1101.1	1224.5	1576.8	259.9	132.1	96.9
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°	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6	7007.6
2.5°	6985.5	6923.9	6857.8	6765.3	6699.3	6598.0	6505.5	6465.8	6457.0	6461.4	6417.4
5°	6805.0	6716.9	6584.7	6395.3	6285.2	6117.9	5976.9	5902.0	5822.8	5836.0	5800.7
7.5°	6553.9	6457.0	6254.4	6034.2	5761.1	5523.3	5391.1	5206.1	5100.4	5021.1	5065.2
10°	6474.6	6307.3	6003.3	5699.4	5276.6	4963.9	4660.0	4448.6	4303.2	4162.3	4223.9
12.5°	6435.0	6267.6	5844.8	5395.5	4849.4	4373.7	3946.4	3686.6	3479.6	3356.2	3404.7
15°	6399.7	6192.7	5695.0	5060.8	4448.6	3823.1	3343.0	2999.5	2801.3	2682.3	2695.6
17.5°	6448.2	6153.1	5474.8	4734.8	4008.1	3338.6	2805.7	2448.9	2246.3	2171.4	2153.8
20°	6399.7	6109.0	5259.0	4408.9	3567.6	2876.1	2365.2	2070.1	1929.2	1867.5	1854.3
22.5°	6417.4	6003.3	5034.4	4047.7	3158.0	2488.5	2070.1	1845.5	1735.4	1704.5	1713.4
25°	6501.1	5941.7	4809.7	3651.3	2752.8	2202.3	1880.7	1708.9	1629.7	1598.8	1607.6
27.5°	6562.7	5994.5	4607.1	3277.0	2409.3	1946.8	1722.2	1607.6	1554.8	1532.8	1528.4
30°	6716.9	6025.4	4408.9	2942.2	2127.4	1779.4	1612.0	1519.6	1484.3	1471.1	1466.7
32.5°	6945.9	6082.6	4179.9	2633.9	1920.4	1620.9	1524.0	1444.7	1435.9	1422.7	1427.1
35°	7320.3	6280.8	3924.4	2369.6	1722.2	1515.2	1431.5	1378.6	1378.6	1378.6	1391.8
37.5°	7857.6	6558.3	3695.4	2118.6	1594.4	1422.7	1352.2	1334.6	1325.8	1339.0	1347.8
40°	8549.1	6893.1	3510.4	1920.4	1484.3	1361.0	1299.3	1290.5	1286.1	1281.7	1290.5
42.5°	9306.7	7320.3	3351.8	1766.2	1405.0	1294.9	1250.9	1242.1	1224.5	1233.3	1246.5
45°	10059.9	7848.8	3210.9	1642.9	1352.2	1259.7	1198.0	1193.6	1184.8	1180.4	1202.4
47.5°	10896.7	8368.6	3166.8	1568.0	1312.5	1206.8	1162.8	1158.4	1132.0	1127.6	1145.2
50°	11548.6	8751.8	3215.3	1532.8	1255.3	1167.2	1136.4	1114.3	1092.3	1070.3	1070.3
52.5°	11997.9	9016.0	3250.5	1506.3	1224.5	1114.3	1074.7	1065.9	1043.9	1021.8	1013.0
55°	12403.1	9174.6	3259.3	1510.7	1193.6	1052.7	1026.2	1021.8	1008.6	973.4	964.6
57.5°	12539.6	9108.5	3083.2	1471.1	1176.0	1013.0	977.8	986.6	969.0	938.2	933.8
60°	12526.4	8650.4	2682.3	1418.3	1136.4	969.0	924.9	951.4	951.4	916.1	911.7
62.5°	11764.4	7593.4	2193.4	1316.9	1092.3	924.9	876.5	916.1	929.4	907.3	902.9
65°	10183.2	6183.9	1832.3	1215.6	1026.2	876.5	828.0	872.1	894.1	885.3	880.9
67.5°	8425.8	4730.4	1524.0	1083.5	942.6	810.4	770.8	801.6	814.8	819.2	823.6
70°	5954.9	3149.2	1272.9	938.2	828.0	740.0	695.9	700.3	695.9	709.1	709.1
72.5°	3237.3	1814.7	1035.1	797.2	713.5	643.1	612.2	590.2	590.2	585.8	585.8
73°	2770.4	1629.7	986.6	775.2	682.7	625.4	590.2	572.6	572.6	568.2	563.8
75°	1554.8	1193.6	845.7	665.1	590.2	546.2	519.7	493.3	488.9	488.9	488.9
77.5°	1021.8	929.4	673.9	532.9	475.7	436.0	427.2	400.8	400.8	400.8	396.4
80°	766.4	731.1	519.7	405.2	365.6	334.7	325.9	308.3	303.9	286.3	290.7
82.5°	510.9	577.0	378.8	286.3	246.7	229.0	229.0	224.6	211.4	189.4	189.4
85°	405.2	471.3	273.1	176.2	145.3	123.3	127.7	123.3	118.9	96.9	92.5
87.5°	74.9	189.4	79.3	48.4	35.2	22.0	22.0	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)