

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: P481068

Luminaire Tested: **IFLD-L-SA7B-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481068  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

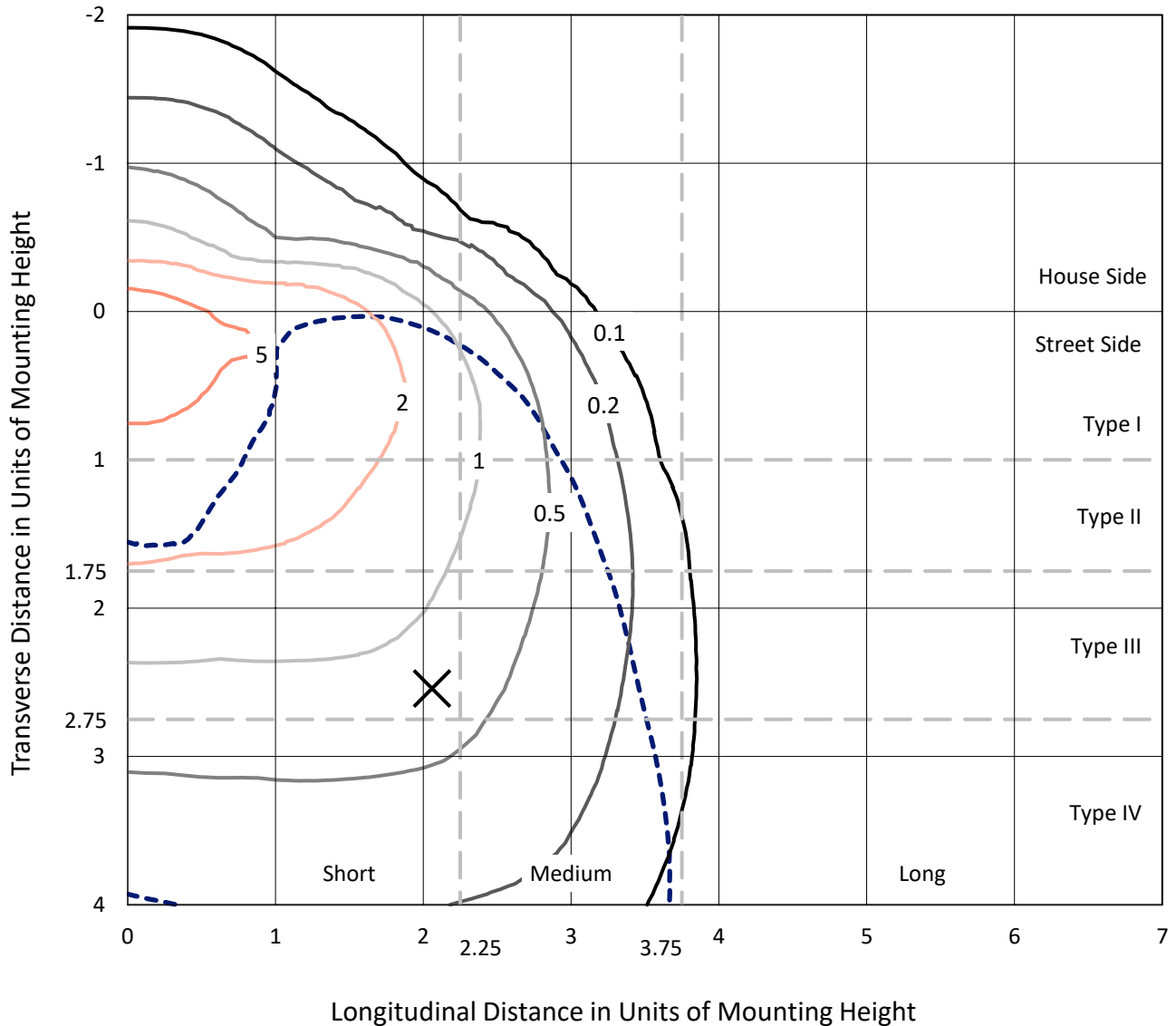
Lumens per Lamp: N/A  
Luminaire Lumens: 27371.5 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 281  
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

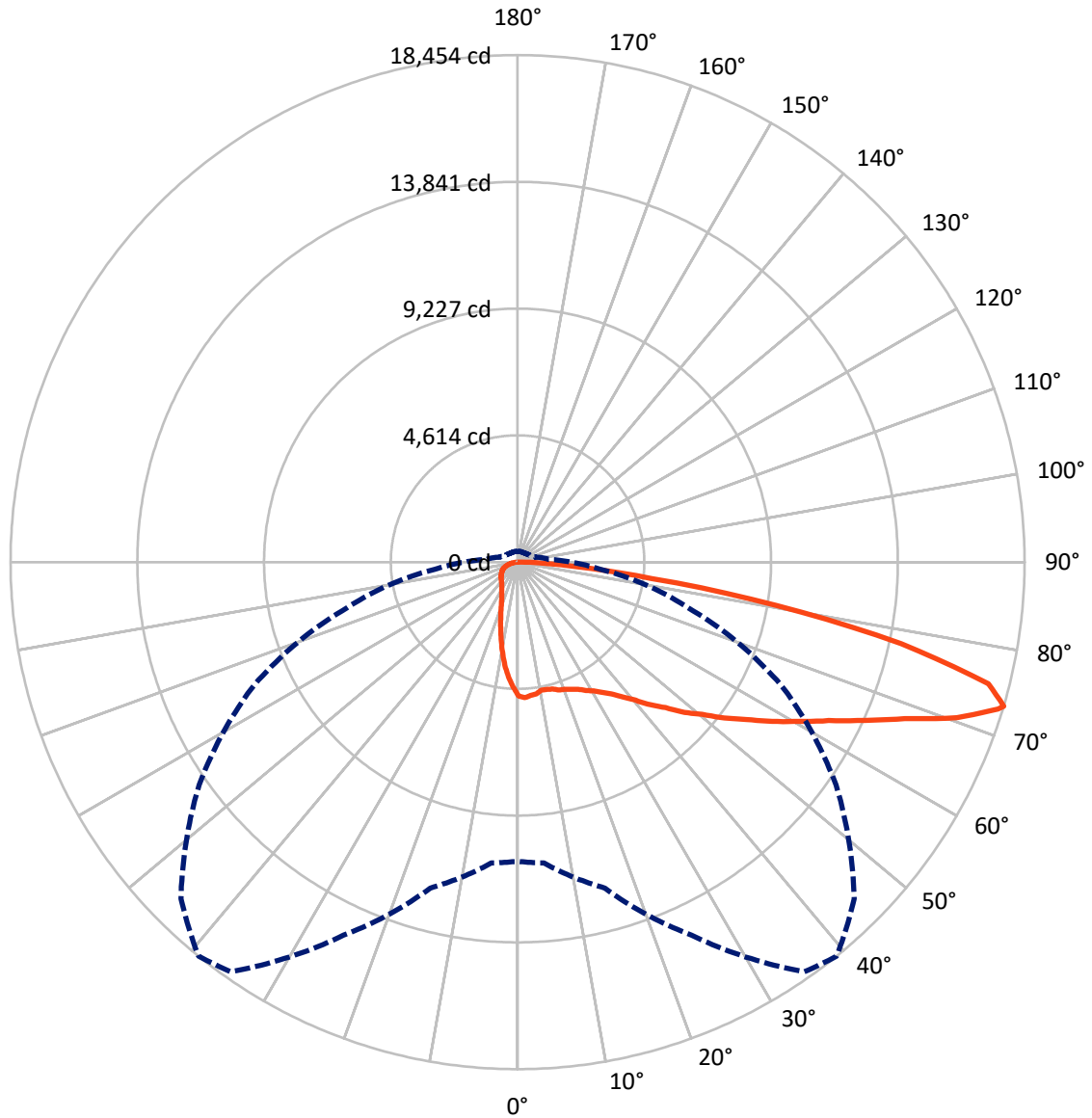
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3847.7	0.0	3847.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	23523.8	0.0	23523.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	27371.5	0.0	27371.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.0	1.5
10°-20°	1075.2	3.9
20°-30°	1643.0	6.0
30°-40°	2395.6	8.8
40°-50°	3620.0	13.2
50°-60°	5242.0	19.2
60°-70°	6660.2	24.3
70°-80°	5399.1	19.7
80°-90°	913.5	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°	27371.5	100.0
0°-180°	27371.5	100.0

**Coefficient of Utilization**



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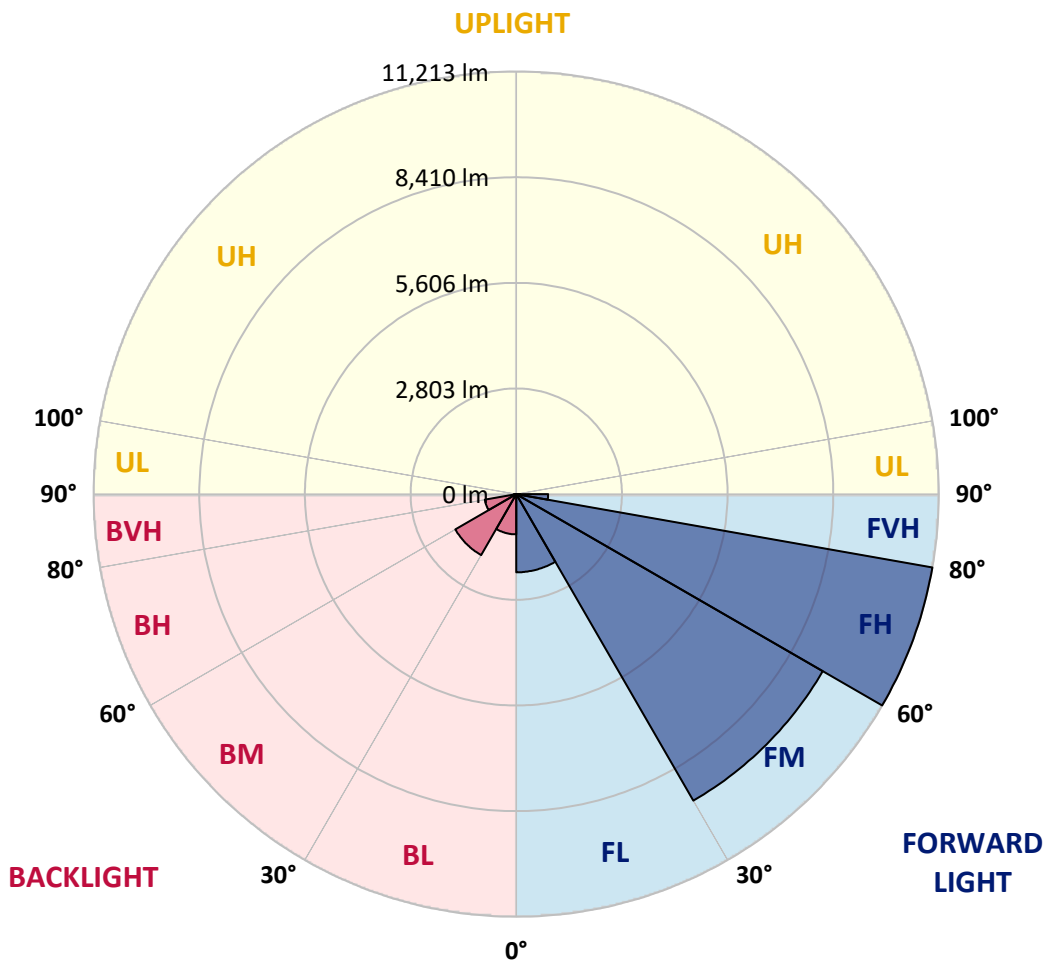
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.2	7.6			
FM (30°-60°)	9390.2	34.3			
FH (60°-80°)	11213.0	41.0			G4/12000
FVH (80°-90°)	846.5	3.1			G5
BL (0°-30°)	1067.0	3.9	B3/2500		
BM (30°-60°)	1867.4	6.8	B2/2500		
BH (60°-80°)	846.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	67.0	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°	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3
2.5°	4988.7	4936.6	4945.8	4927.4	4945.8	4939.7	4930.5	4884.5	4930.5	4884.5	4872.3
5°	4921.3	4921.3	4951.9	4906.0	4912.1	4881.5	4912.1	4878.4	4847.8	4771.2	4749.8
7.5°	4899.8	4896.8	4899.8	4835.5	4866.2	4847.8	4817.2	4780.4	4719.2	4670.2	4599.7
10°	4752.9	4783.5	4749.8	4768.2	4792.7	4737.5	4734.5	4725.3	4697.7	4633.4	4590.5
12.5°	4673.2	4725.3	4743.7	4728.4	4749.8	4755.9	4737.5	4725.3	4691.6	4648.7	4526.2
15°	4706.9	4645.7	4697.7	4798.8	4777.4	4792.7	4795.7	4783.5	4768.2	4688.5	4608.9
17.5°	4716.1	4679.4	4789.6	4811.0	4838.6	4893.7	4857.0	4853.9	4795.7	4740.6	4624.2
20°	4737.5	4722.2	4811.0	4924.3	4927.4	4936.6	4955.0	4909.0	4878.4	4783.5	4605.9
22.5°	4817.2	4869.2	4951.9	5000.9	5028.5	5034.6	5034.6	4942.7	4909.0	4832.5	4691.6
25°	5056.0	5000.9	5117.3	5175.5	5135.7	5126.5	5105.0	5022.3	4985.6	4918.2	4731.4
27.5°	5230.6	5227.5	5294.9	5374.5	5267.3	5288.8	5212.2	5187.7	5105.0	5068.3	4801.9
30°	5469.5	5536.8	5533.8	5558.3	5417.4	5441.9	5343.9	5298.0	5252.0	5273.5	5010.1
32.5°	5775.7	5751.2	5791.0	5772.6	5631.8	5653.2	5536.8	5466.4	5481.7	5546.0	5294.9
35°	5971.7	5947.2	5962.5	5962.5	5919.6	5895.1	5846.1	5754.3	5827.8	5947.2	5613.4
37.5°	6183.0	6213.6	6302.4	6284.1	6228.9	6228.9	6222.8	6158.5	6253.4	6547.4	6121.7
40°	6369.8	6452.5	6507.6	6544.4	6608.7	6608.7	6660.7	6624.0	6795.5	7267.1	6743.4
42.5°	6565.8	6568.9	6869.0	6896.5	7040.5	7101.7	7141.5	7172.2	7493.7	8020.4	7408.0
45°	6816.9	6832.2	7095.6	7306.9	7530.5	7551.9	7702.0	7803.0	8198.1	8844.2	8130.7
47.5°	7147.7	7129.3	7411.0	7747.9	8026.6	8173.6	8354.2	8464.5	8951.4	9738.5	8920.8
50°	7582.5	7527.4	7689.7	8219.5	8547.2	8709.5	9031.0	9214.8	9784.4	10592.9	9462.8
52.5°	8112.3	8020.4	8149.1	8727.9	9095.3	9423.0	9729.3	9934.4	10528.6	11254.3	9864.0
55°	8672.7	8482.9	8519.6	9266.8	9796.6	10105.9	10525.5	10739.9	11346.2	11848.4	10265.2
57.5°	9227.0	9107.6	9034.1	9784.4	10632.7	10929.7	11315.6	11594.3	12108.8	12375.2	10605.1
60°	9692.5	9661.9	9542.5	10586.7	11517.7	11771.9	12176.1	12347.6	12736.5	12862.1	10611.2
62.5°	10075.3	9971.2	10161.1	11232.9	12418.1	12705.9	13150.0	13165.3	13440.9	13165.3	10298.9
65°	10375.4	10381.6	10684.7	12013.8	13459.3	13884.9	14243.2	14203.4	14025.8	12984.6	9560.8
67.5°	10648.0	10764.4	11208.4	12871.3	14797.5	15198.7	15596.8	15070.1	14185.1	12139.4	8118.4
70°	10862.4	10978.7	11915.8	13915.6	16374.7	16962.7	17051.5	15413.1	13453.1	10283.6	6124.8
72.5°	10837.9	11049.2	12317.0	14748.5	17774.2	18282.6	17566.0	14448.4	11208.4	7169.1	3573.8
73°	10889.9	10994.0	12283.3	14981.3	18199.9	18454.1	17327.1	14145.3	10571.4	6431.1	3022.6
75°	9885.4	10237.6	11673.9	14601.6	17743.6	17697.6	15955.1	11787.2	7515.1	3377.8	1463.8
77.5°	7313.0	7536.6	9199.5	12007.7	14564.8	14270.8	12035.3	7533.5	3567.7	1252.5	790.1
80°	3573.8	3748.4	4875.4	6933.3	9524.1	9548.6	7469.2	3919.9	1528.1	707.4	539.0
82.5°	1785.4	1889.5	2342.7	3047.1	4685.5	4909.0	3788.2	2229.4	946.3	401.2	306.2
85°	1166.8	1240.3	1442.4	1491.4	1987.5	2097.7	1763.9	1739.4	615.5	217.4	248.1
87.5°	774.8	787.0	885.0	753.4	796.2	765.6	851.3	1096.3	180.7	91.9	67.4
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°	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3	4872.3
2.5°	4857.0	4814.1	4768.2	4703.9	4657.9	4587.5	4523.2	4495.6	4489.5	4492.5	4461.9
5°	4731.4	4670.2	4578.3	4446.6	4370.1	4253.7	4155.7	4103.6	4048.5	4057.7	4033.2
7.5°	4556.9	4489.5	4348.6	4195.5	4005.6	3840.3	3748.4	3619.8	3546.3	3491.1	3521.8
10°	4501.7	4385.4	4174.1	3962.8	3668.8	3451.3	3240.0	3093.0	2992.0	2894.0	2936.8
12.5°	4474.2	4357.8	4063.8	3751.4	3371.7	3041.0	2743.9	2563.2	2419.3	2333.6	2367.2
15°	4449.7	4305.7	3959.7	3518.7	3093.0	2658.2	2324.4	2085.5	1947.7	1865.0	1874.2
17.5°	4483.4	4278.2	3806.6	3292.1	2786.8	2321.3	1950.8	1702.7	1561.8	1509.8	1497.5
20°	4449.7	4247.6	3656.5	3065.5	2480.5	1999.8	1644.5	1439.3	1341.3	1298.5	1289.3
22.5°	4461.9	4174.1	3500.3	2814.4	2195.7	1730.3	1439.3	1283.1	1206.6	1185.2	1191.3
25°	4520.1	4131.2	3344.1	2538.7	1914.0	1531.2	1307.6	1188.2	1133.1	1111.7	1117.8
27.5°	4563.0	4167.9	3203.3	2278.4	1675.1	1353.6	1197.4	1117.8	1081.0	1065.7	1062.7
30°	4670.2	4189.4	3065.5	2045.7	1479.1	1237.2	1120.8	1056.5	1032.0	1022.8	1019.8
32.5°	4829.4	4229.2	2906.2	1831.3	1335.2	1127.0	1059.6	1004.5	998.3	989.2	992.2
35°	5089.7	4367.0	2728.6	1647.6	1197.4	1053.5	995.3	958.5	958.5	958.5	967.7
37.5°	5463.3	4559.9	2569.4	1473.0	1108.6	989.2	940.2	927.9	921.8	931.0	937.1
40°	5944.1	4792.7	2440.7	1335.2	1032.0	946.3	903.4	897.3	894.2	891.2	897.3
42.5°	6470.9	5089.7	2330.5	1228.0	976.9	900.3	869.7	863.6	851.3	857.5	866.7
45°	6994.5	5457.2	2232.5	1142.3	940.2	875.8	833.0	829.9	823.8	820.7	836.0
47.5°	7576.4	5818.6	2201.9	1090.2	912.6	839.1	808.5	805.4	787.0	784.0	796.2
50°	8029.6	6085.0	2235.6	1065.7	872.8	811.5	790.1	774.8	759.5	744.2	744.2
52.5°	8342.0	6268.7	2260.1	1047.3	851.3	774.8	747.2	741.1	725.8	710.5	704.4
55°	8623.7	6379.0	2266.2	1050.4	829.9	731.9	713.5	710.5	701.3	676.8	670.7
57.5°	8718.7	6333.1	2143.7	1022.8	817.7	704.4	679.9	686.0	673.7	652.3	649.2
60°	8709.5	6014.6	1865.0	986.1	790.1	673.7	643.1	661.5	661.5	637.0	633.9
62.5°	8179.7	5279.6	1525.1	915.7	759.5	643.1	609.4	637.0	646.2	630.9	627.8
65°	7080.3	4299.6	1274.0	845.2	713.5	609.4	575.7	606.4	621.7	615.5	612.5
67.5°	5858.4	3289.0	1059.6	753.4	655.4	563.5	535.9	557.4	566.5	569.6	572.7
70°	4140.4	2189.6	885.0	652.3	575.7	514.5	483.9	486.9	483.9	493.0	493.0
72.5°	2250.9	1261.7	719.7	554.3	496.1	447.1	425.7	410.4	410.4	407.3	407.3
73°	1926.3	1133.1	686.0	539.0	474.7	434.9	410.4	398.1	398.1	395.1	392.0
75°	1081.0	829.9	588.0	462.4	410.4	379.7	361.4	343.0	339.9	339.9	339.9
77.5°	710.5	646.2	468.5	370.6	330.7	303.2	297.1	278.7	278.7	278.7	275.6
80°	532.9	508.4	361.4	281.7	254.2	232.7	226.6	214.4	211.3	199.1	202.1
82.5°	355.2	401.2	263.4	199.1	171.5	159.2	159.2	156.2	147.0	131.7	131.7
85°	281.7	327.7	189.9	122.5	101.1	85.7	88.8	85.7	82.7	67.4	64.3
87.5°	52.1	131.7	55.1	33.7	24.5	15.3	15.3	9.2	6.1	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)