

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: P480832

Luminaire Tested: **IFLD-M-SA4E-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480832  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-730-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

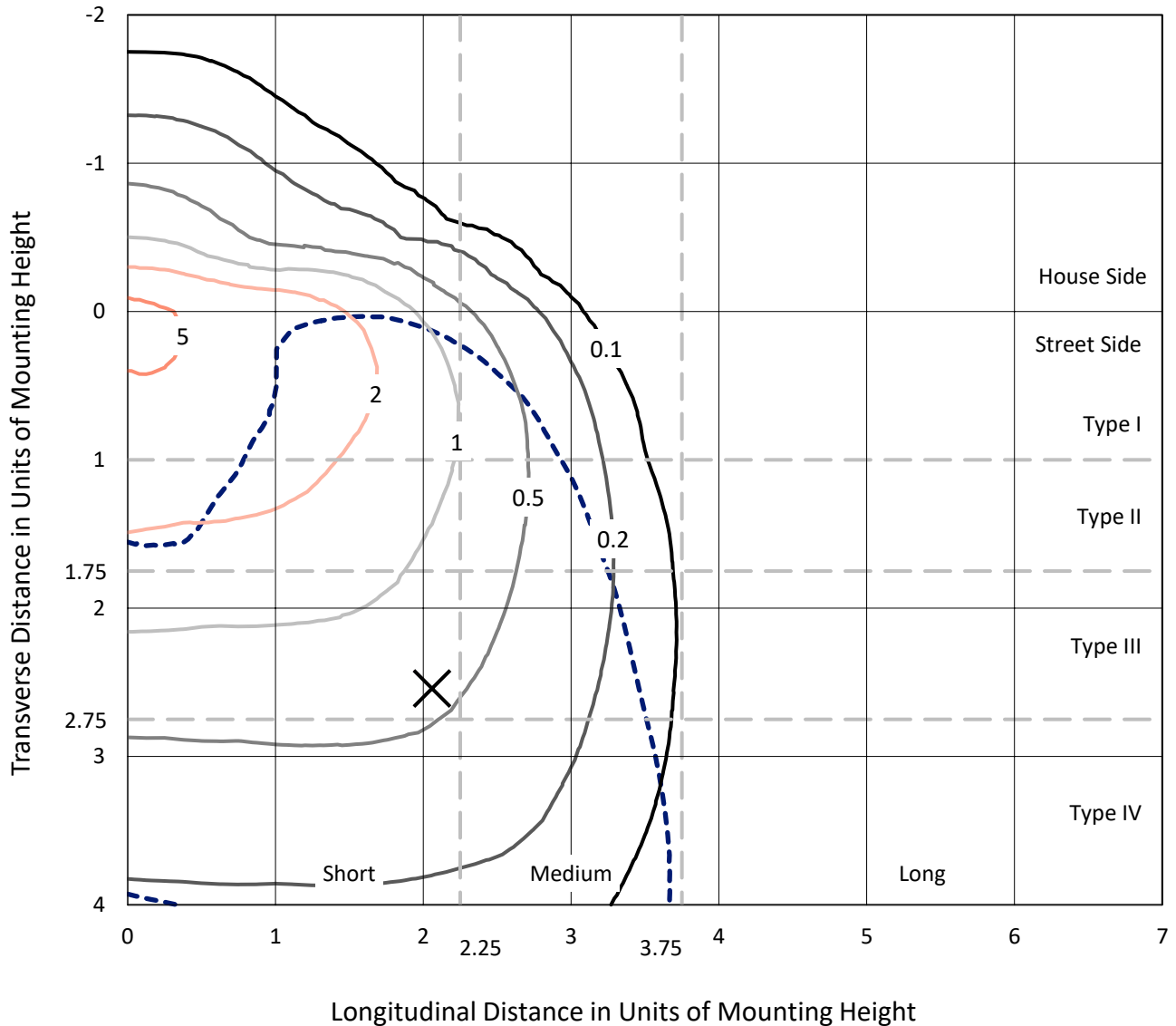
Lumens per Lamp: N/A  
Luminaire Lumens: 31889.2 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 314.8  
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

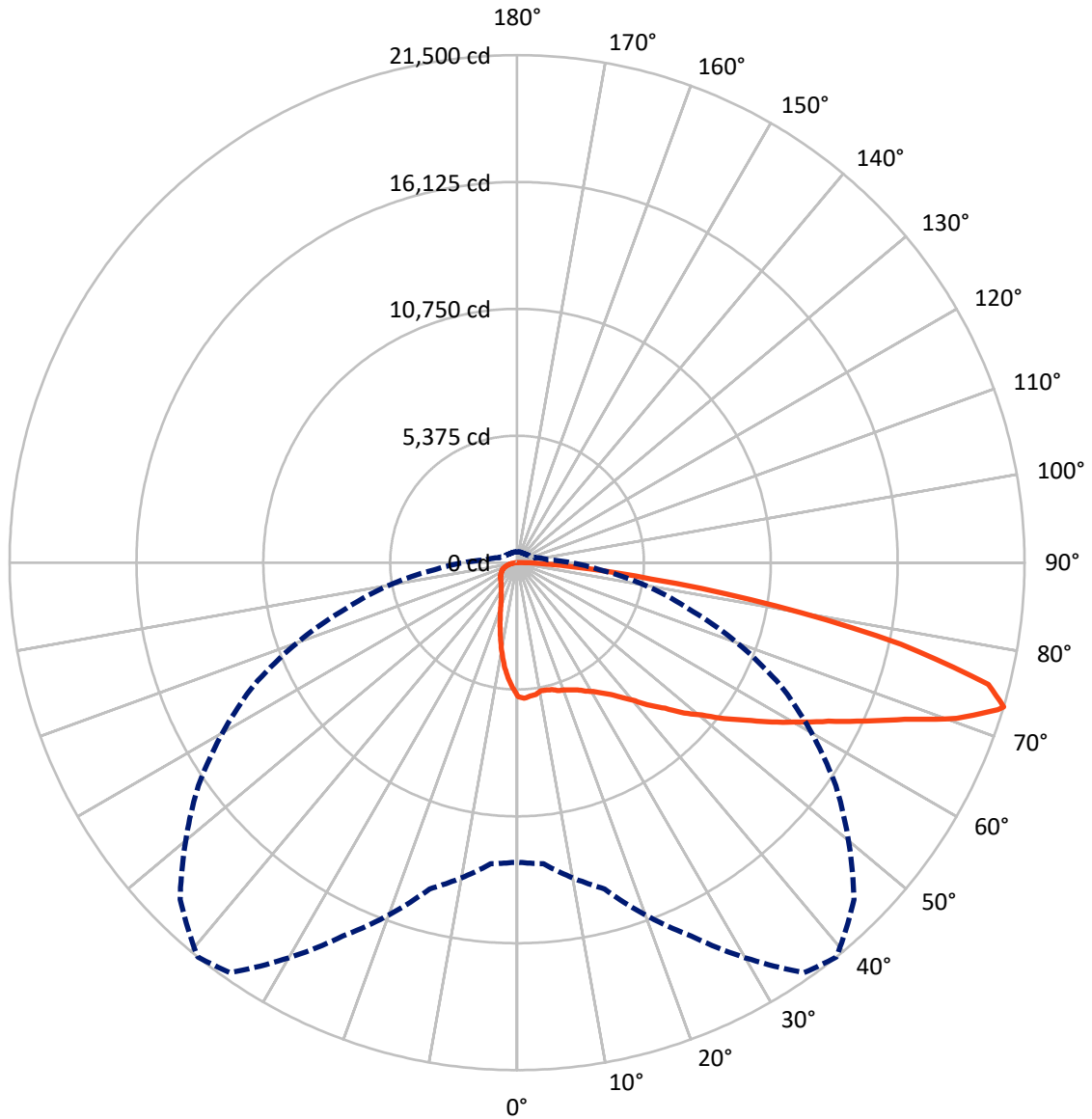
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	4482.7	0.0	4482.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	27406.5	0.0	27406.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	31889.2	0.0	31889.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.8	1.5
10°-20°	1252.7	3.9
20°-30°	1914.2	6.0
30°-40°	2791.0	8.8
40°-50°	4217.5	13.2
50°-60°	6107.1	19.2
60°-70°	7759.4	24.3
70°-80°	6290.2	19.7
80°-90°	1064.3	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°	31889.2	100.0
0°-180°	31889.2	100.0

**Coefficient of Utilization**



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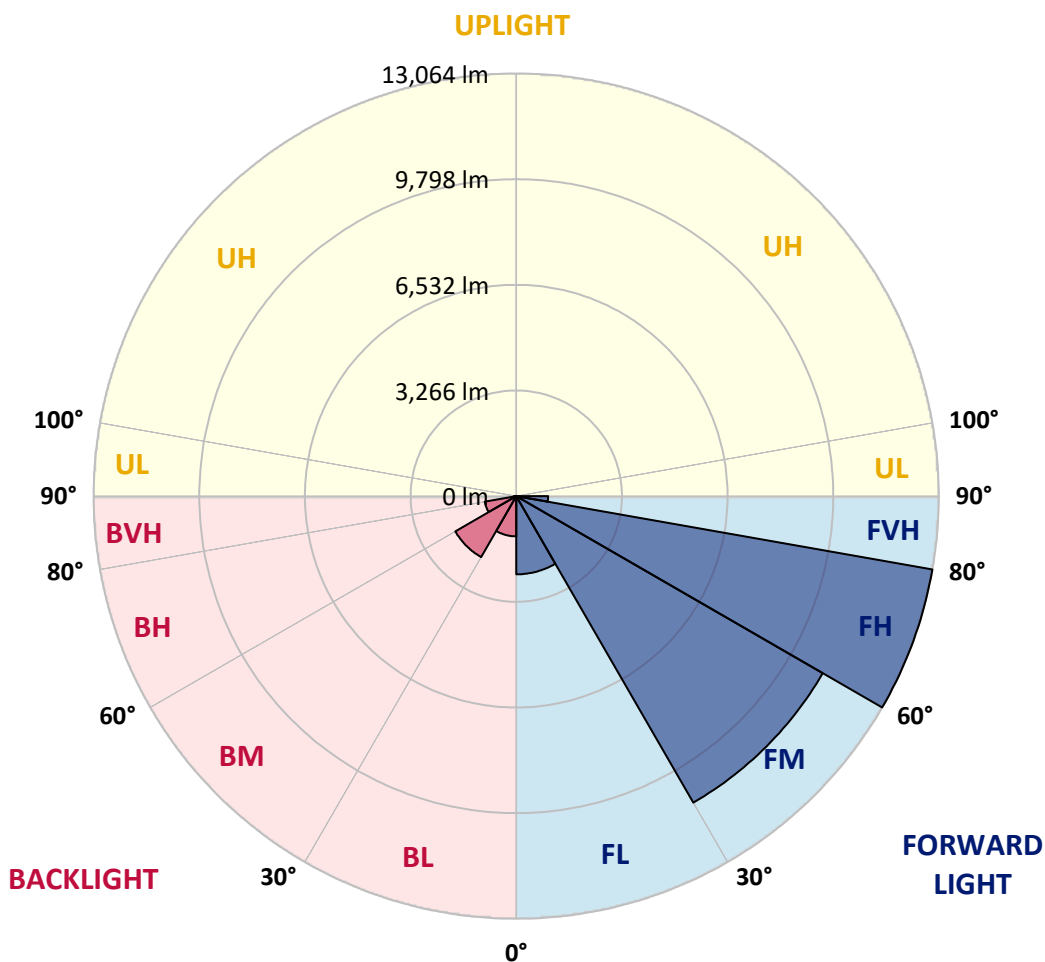
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2416.5	7.6			
FM (30°-60°)	10940.0	34.3			
FH (60°-80°)	13063.7	41.0			G5
FVH (80°-90°)	986.2	3.1			G5
BL (0°-30°)	1243.2	3.9	B3/2500		
BM (30°-60°)	2175.6	6.8	B2/2500		
BH (60°-80°)	985.9	3.1	B2/1000		G2/1000
BVH (80°-90°)	78.1	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°	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5
2.5°	5812.0	5751.4	5762.1	5740.7	5762.1	5755.0	5744.3	5690.7	5744.3	5690.7	5676.5
5°	5733.6	5733.6	5769.2	5715.7	5722.9	5687.2	5722.9	5683.6	5647.9	5558.7	5533.8
7.5°	5708.6	5705.0	5708.6	5633.7	5669.3	5647.9	5612.2	5569.4	5498.1	5441.0	5358.9
10°	5537.3	5573.0	5533.8	5555.2	5583.7	5519.5	5515.9	5505.2	5473.1	5398.2	5348.2
12.5°	5444.6	5505.2	5526.6	5508.8	5533.8	5540.9	5519.5	5505.2	5466.0	5416.0	5273.3
15°	5483.8	5412.4	5473.1	5590.8	5565.9	5583.7	5587.3	5573.0	5555.2	5462.4	5369.6
17.5°	5494.5	5451.7	5580.1	5605.1	5637.2	5701.4	5658.6	5655.1	5587.3	5523.1	5387.5
20°	5519.5	5501.6	5605.1	5737.1	5740.7	5751.4	5772.8	5719.3	5683.6	5573.0	5366.1
22.5°	5612.2	5672.9	5769.2	5826.3	5858.4	5865.6	5865.6	5758.5	5719.3	5630.1	5466.0
25°	5890.5	5826.3	5961.9	6029.7	5983.3	5972.6	5947.6	5851.3	5808.5	5730.0	5512.3
27.5°	6093.9	6090.3	6168.8	6261.6	6136.7	6161.7	6072.5	6044.0	5947.6	5904.8	5594.4
30°	6372.2	6450.7	6447.1	6475.7	6311.5	6340.1	6225.9	6172.4	6118.9	6143.9	5837.0
32.5°	6729.0	6700.4	6746.8	6725.4	6561.3	6586.3	6450.7	6368.6	6386.5	6461.4	6168.8
35°	6957.3	6928.8	6946.6	6946.6	6896.7	6868.1	6811.0	6704.0	6789.6	6928.8	6539.9
37.5°	7203.5	7239.2	7342.7	7321.3	7257.0	7257.0	7249.9	7175.0	7285.6	7628.1	7132.2
40°	7421.2	7517.5	7581.7	7624.5	7699.4	7699.4	7760.1	7717.3	7917.1	8466.5	7856.4
42.5°	7649.5	7653.1	8002.7	8034.8	8202.5	8273.9	8320.3	8355.9	8730.6	9344.2	8630.7
45°	7942.1	7959.9	8266.7	8512.9	8773.4	8798.3	8973.2	9090.9	9551.2	10304.0	9472.7
47.5°	8327.4	8306.0	8634.2	9026.7	9351.4	9522.6	9733.1	9861.6	10428.9	11345.8	10393.2
50°	8834.0	8769.8	8958.9	9576.1	9957.9	10147.0	10521.6	10735.7	11399.3	12341.2	11024.7
52.5°	9451.3	9344.2	9494.1	10168.4	10596.6	10978.3	11335.1	11574.1	12266.3	13111.9	11492.1
55°	10104.2	9883.0	9925.8	10796.4	11413.6	11773.9	12262.7	12512.5	13218.9	13804.1	11959.5
57.5°	10750.0	10610.8	10525.2	11399.3	12387.6	12733.7	13183.3	13507.9	14107.3	14417.7	12355.5
60°	11292.3	11256.6	11117.5	12334.1	13418.7	13714.9	14185.8	14385.6	14838.7	14985.0	12362.6
62.5°	11738.3	11617.0	11838.2	13086.9	14467.7	14803.1	15320.4	15338.2	15659.3	15338.2	11998.7
65°	12087.9	12095.1	12448.3	13996.7	15680.8	16176.7	16594.1	16547.7	16340.8	15127.7	11138.9
67.5°	12405.5	12541.0	13058.4	14995.7	17239.9	17707.3	18171.1	17557.5	16526.3	14143.0	9458.4
70°	12655.2	12790.8	13882.6	16212.4	19077.4	19762.4	19865.9	17957.1	15673.6	11980.9	7135.7
72.5°	12626.7	12872.8	14349.9	17182.8	20707.9	21300.1	20465.3	16833.2	13058.4	8352.4	4163.7
73°	12687.3	12808.6	14310.7	17454.0	21203.8	21499.9	20187.0	16480.0	12316.3	7492.5	3521.5
75°	11517.1	11927.4	13600.7	17011.6	20672.2	20618.7	18588.6	13732.7	8755.5	3935.4	1705.4
77.5°	8520.1	8780.5	10717.9	13989.6	16968.8	16626.2	14021.7	8776.9	4156.6	1459.3	920.5
80°	4163.7	4367.1	5680.0	8077.6	11096.1	11124.6	8702.0	4566.9	1780.4	824.2	627.9
82.5°	2080.1	2201.4	2729.4	3550.0	5458.8	5719.3	4413.4	2597.4	1102.5	467.4	356.8
85°	1359.4	1445.0	1680.5	1737.5	2315.5	2444.0	2055.1	2026.5	717.1	253.3	289.0
87.5°	902.7	916.9	1031.1	877.7	927.6	892.0	991.9	1277.3	210.5	107.0	78.5
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°	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5	5676.5
2.5°	5658.6	5608.7	5555.2	5480.2	5426.7	5344.7	5269.7	5237.6	5230.5	5234.1	5198.4
5°	5512.3	5441.0	5334.0	5180.5	5091.3	4955.8	4841.6	4780.9	4716.7	4727.4	4698.9
7.5°	5309.0	5230.5	5066.4	4888.0	4666.8	4474.1	4367.1	4217.2	4131.6	4067.4	4103.0
10°	5244.8	5109.2	4863.0	4616.8	4274.3	4021.0	3774.8	3603.5	3485.8	3371.6	3421.6
12.5°	5212.6	5077.1	4734.6	4370.6	3928.2	3542.9	3196.8	2986.3	2818.6	2718.7	2758.0
15°	5184.1	5016.4	4613.2	4099.5	3603.5	3096.9	2708.0	2429.7	2269.2	2172.8	2183.5
17.5°	5223.4	4984.3	4434.9	3835.5	3246.8	2704.4	2272.7	1983.7	1819.6	1759.0	1744.7
20°	5184.1	4948.6	4260.0	3571.4	2890.0	2329.8	1915.9	1676.9	1562.7	1512.8	1502.1
22.5°	5198.4	4863.0	4078.1	3278.9	2558.2	2015.8	1676.9	1494.9	1405.7	1380.8	1387.9
25°	5266.2	4813.0	3896.1	2957.8	2229.9	1783.9	1523.5	1384.3	1320.1	1295.1	1302.3
27.5°	5316.1	4855.9	3732.0	2654.5	1951.6	1577.0	1395.0	1302.3	1259.5	1241.6	1238.0
30°	5441.0	4880.8	3571.4	2383.3	1723.3	1441.4	1305.8	1230.9	1202.4	1191.7	1188.1
32.5°	5626.5	4927.2	3385.9	2133.6	1555.6	1313.0	1234.5	1170.3	1163.1	1152.4	1156.0
35°	5929.8	5087.8	3179.0	1919.5	1395.0	1227.3	1159.6	1116.7	1116.7	1116.7	1127.4
37.5°	6365.1	5312.5	2993.4	1716.1	1291.6	1152.4	1095.3	1081.1	1073.9	1084.6	1091.8
40°	6925.2	5583.7	2843.6	1555.6	1202.4	1102.5	1052.5	1045.4	1041.8	1038.2	1045.4
42.5°	7538.9	5929.8	2715.1	1430.7	1138.1	1049.0	1013.3	1006.1	991.9	999.0	1009.7
45°	8149.0	6357.9	2601.0	1330.8	1095.3	1020.4	970.5	966.9	959.8	956.2	974.0
47.5°	8826.9	6778.9	2565.3	1270.2	1063.2	977.6	941.9	938.3	916.9	913.4	927.6
50°	9354.9	7089.3	2604.5	1241.6	1016.8	945.5	920.5	902.7	884.8	867.0	867.0
52.5°	9718.9	7303.4	2633.1	1220.2	991.9	902.7	870.6	863.4	845.6	827.7	820.6
55°	10047.1	7431.9	2640.2	1223.8	966.9	852.7	831.3	827.7	817.0	788.5	781.4
57.5°	10157.7	7378.3	2497.5	1191.7	952.6	820.6	792.1	799.2	784.9	760.0	756.4
60°	10147.0	7007.3	2172.8	1148.9	920.5	784.9	749.3	770.7	770.7	742.1	738.5
62.5°	9529.8	6151.0	1776.8	1066.8	884.8	749.3	710.0	742.1	752.8	735.0	731.4
65°	8248.9	5009.3	1484.2	984.7	831.3	710.0	670.8	706.4	724.3	717.1	713.6
67.5°	6825.3	3831.9	1234.5	877.7	763.5	656.5	624.4	649.4	660.1	663.6	667.2
70°	4823.8	2551.0	1031.1	760.0	670.8	599.4	563.7	567.3	563.7	574.4	574.4
72.5°	2622.4	1470.0	838.4	645.8	578.0	520.9	495.9	478.1	478.1	474.5	474.5
73°	2244.2	1320.1	799.2	627.9	553.0	506.6	478.1	463.8	463.8	460.3	456.7
75°	1259.5	966.9	685.0	538.7	478.1	442.4	421.0	399.6	396.0	396.0	396.0
77.5°	827.7	752.8	545.9	431.7	385.3	353.2	346.1	324.7	324.7	324.7	321.1
80°	620.8	592.3	421.0	328.2	296.1	271.2	264.0	249.8	246.2	231.9	235.5
82.5°	413.9	467.4	306.8	231.9	199.8	185.5	185.5	182.0	171.3	153.4	153.4
85°	328.2	381.8	221.2	142.7	117.7	99.9	103.5	99.9	96.3	78.5	74.9
87.5°	60.7	153.4	64.2	39.2	28.5	17.8	17.8	10.7	7.1	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)