

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: P481066

Luminaire Tested: **IFLD-M-SA4E-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481066  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

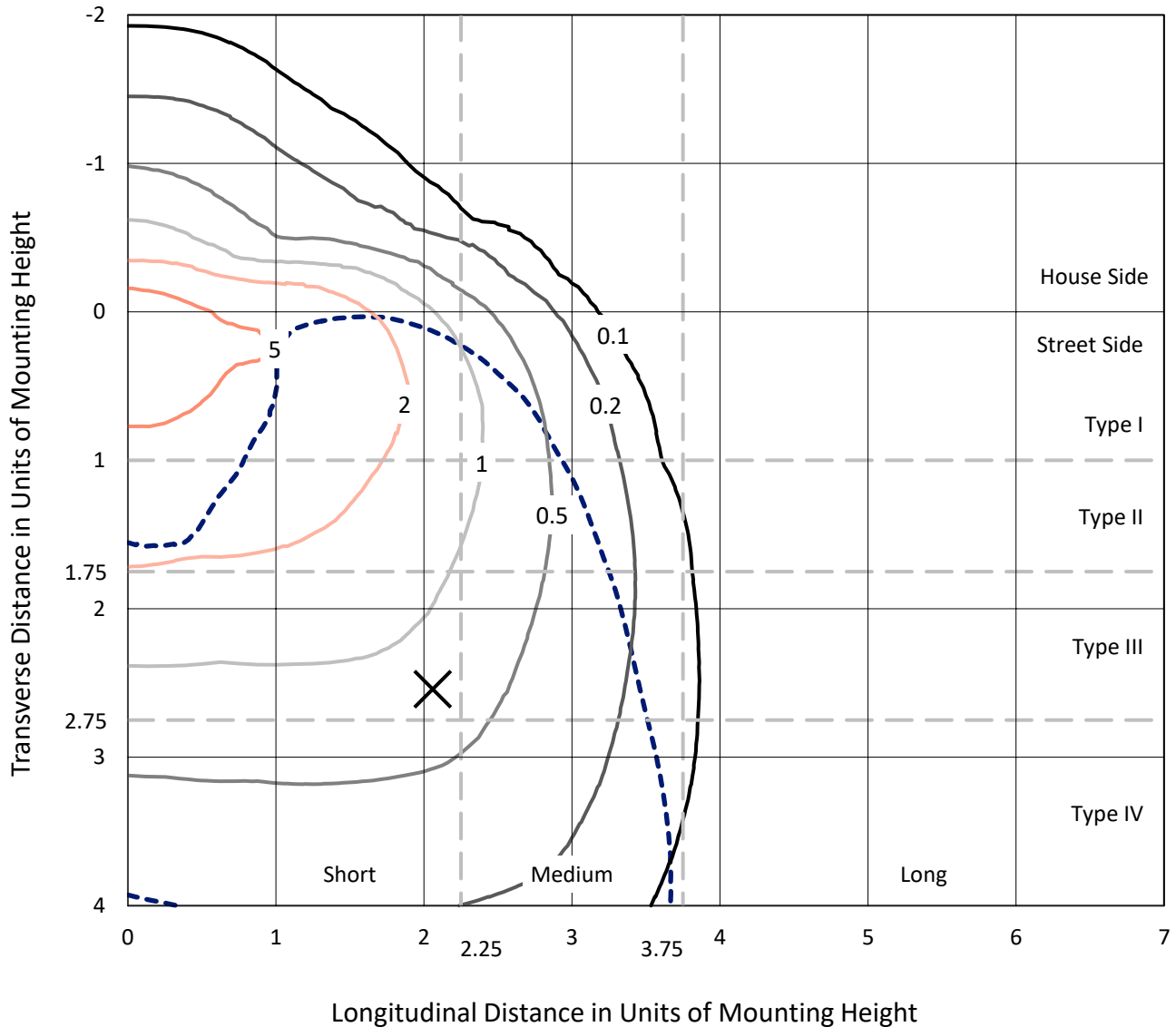
Lumens per Lamp: N/A  
Luminaire Lumens: 27826.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P481066  
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

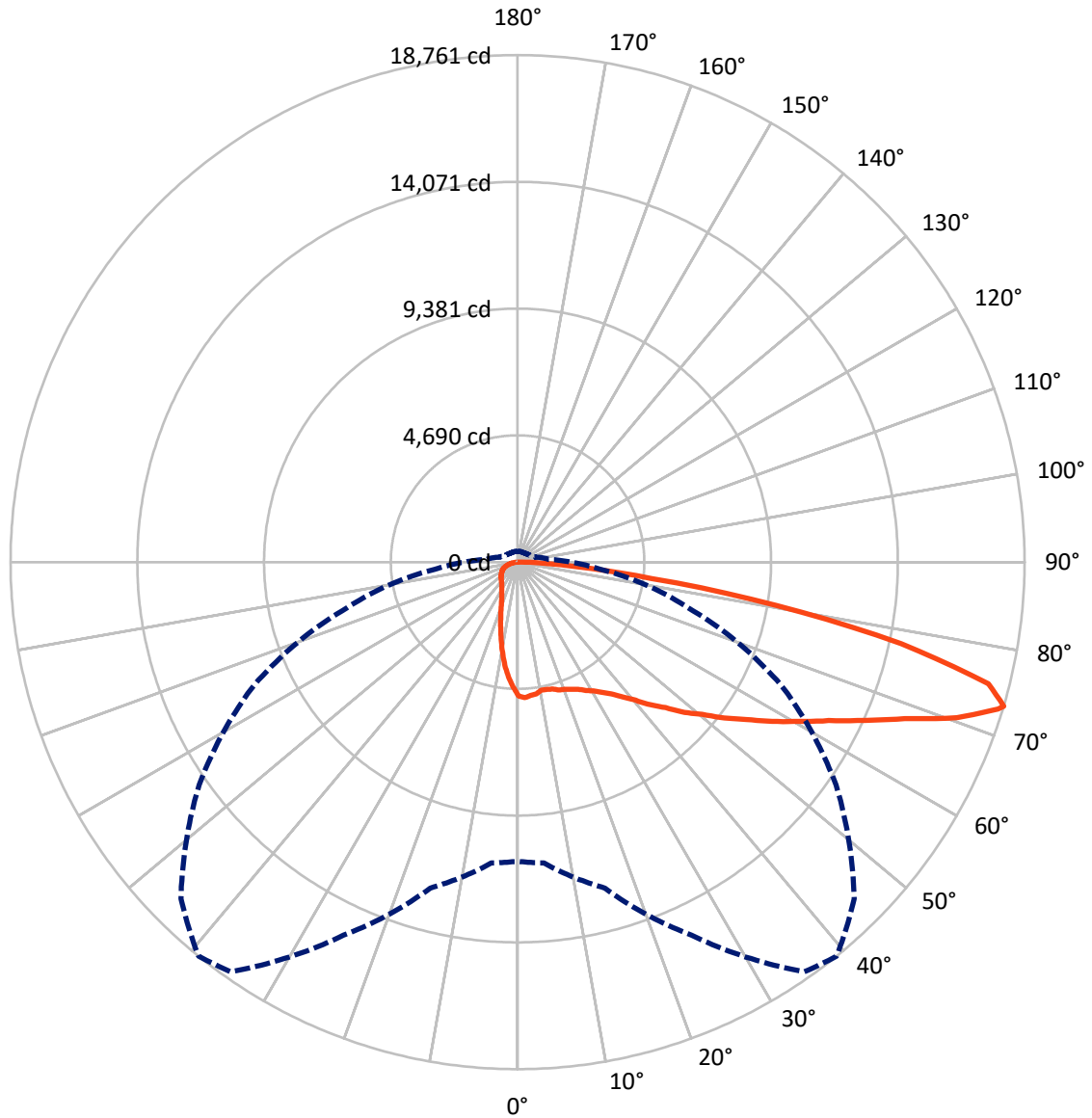
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P481066  
CATALOG NUMBER: IFLD-M-SA4E-830-U-SL4

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P481066  
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3911.7	0.0	3911.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	23915.2	0.0	23915.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	27826.9	0.0	27826.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.0	1.5
10°-20°	1093.1	3.9
20°-30°	1670.4	6.0
30°-40°	2435.4	8.8
40°-50°	3680.2	13.2
50°-60°	5329.2	19.2
60°-70°	6771.0	24.3
70°-80°	5488.9	19.7
80°-90°	928.7	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°	27826.9	100.0
0°-180°	27826.9	100.0

**Coefficient of Utilization**



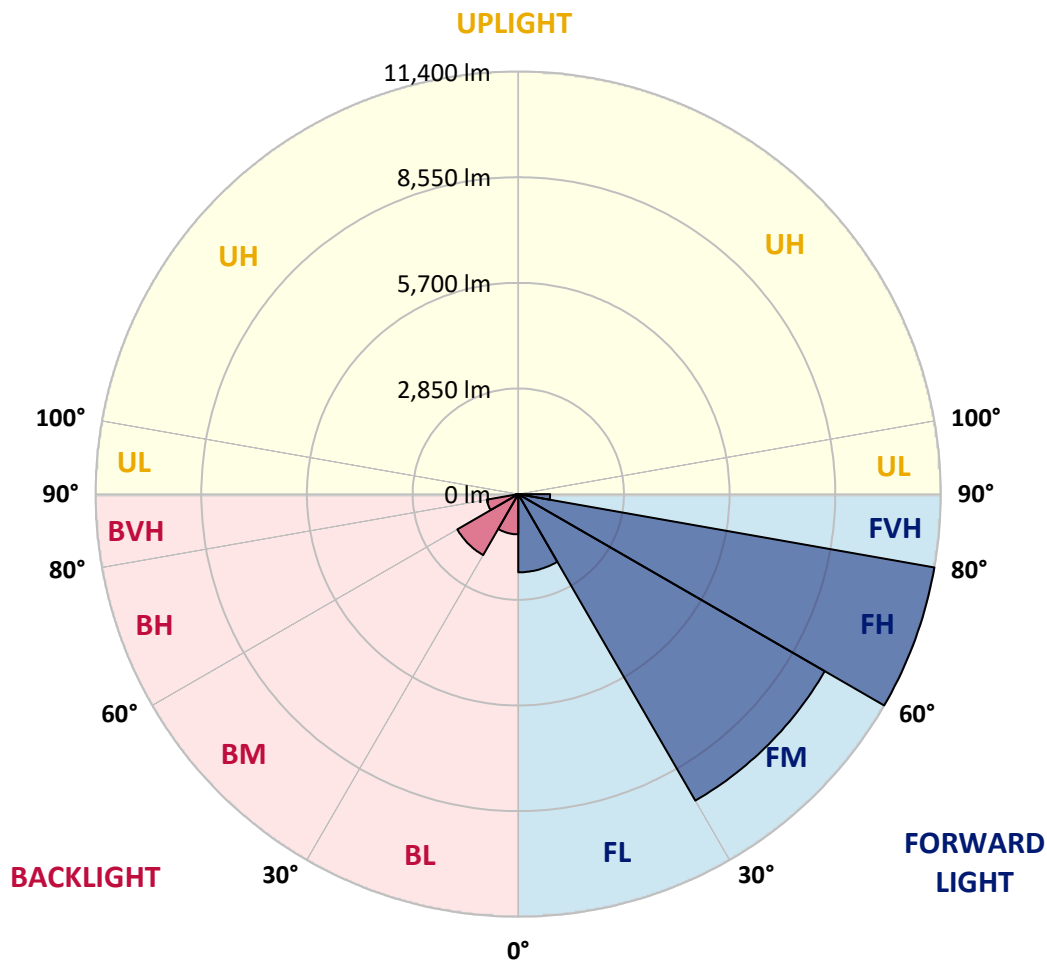
REPORT NUMBER: P481066  
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2108.7	7.6			
FM (30°-60°)	9546.4	34.3			
FH (60°-80°)	11399.6	41.0			G4/12000
FVH (80°-90°)	860.6	3.1			G5
BL (0°-30°)	1084.8	3.9	B3/2500		
BM (30°-60°)	1898.4	6.8	B2/2500		
BH (60°-80°)	860.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	68.1	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





REPORT NUMBER: P481066  
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4
2.5°	5071.7	5018.7	5028.1	5009.4	5028.1	5021.8	5012.5	4965.8	5012.5	4965.8	4953.4
5°	5003.2	5003.2	5034.3	4987.6	4993.8	4962.7	4993.8	4959.6	4928.4	4850.6	4828.8
7.5°	4981.4	4978.3	4981.4	4916.0	4947.1	4928.4	4897.3	4860.0	4797.7	4747.9	4676.3
10°	4831.9	4863.1	4828.8	4847.5	4872.4	4816.4	4813.3	4803.9	4775.9	4710.5	4666.9
12.5°	4751.0	4803.9	4822.6	4807.0	4828.8	4835.0	4816.4	4803.9	4769.7	4726.1	4601.5
15°	4785.2	4723.0	4775.9	4878.6	4856.8	4872.4	4875.5	4863.1	4847.5	4766.6	4685.6
17.5°	4794.6	4757.2	4869.3	4891.1	4919.1	4975.1	4937.8	4934.7	4875.5	4819.5	4701.2
20°	4816.4	4800.8	4891.1	5006.3	5009.4	5018.7	5037.4	4990.7	4959.6	4863.1	4682.5
22.5°	4897.3	4950.2	5034.3	5084.1	5112.1	5118.4	5118.4	5025.0	4990.7	4912.9	4769.7
25°	5140.2	5084.1	5202.4	5261.6	5221.1	5211.8	5190.0	5105.9	5068.5	5000.1	4810.1
27.5°	5317.6	5314.5	5383.0	5463.9	5355.0	5376.8	5298.9	5274.0	5190.0	5152.6	4881.7
30°	5560.5	5629.0	5625.8	5650.7	5507.5	5532.4	5432.8	5386.1	5339.4	5361.2	5093.5
32.5°	5871.8	5846.9	5887.4	5868.7	5725.5	5747.3	5629.0	5557.3	5572.9	5638.3	5383.0
35°	6071.0	6046.1	6061.7	6061.7	6018.1	5993.2	5943.4	5850.0	5924.7	6046.1	5706.8
37.5°	6285.9	6317.0	6407.3	6388.6	6332.6	6332.6	6326.3	6261.0	6357.5	6656.4	6223.6
40°	6475.8	6559.8	6615.9	6653.2	6718.6	6718.6	6771.6	6734.2	6908.5	7388.0	6855.6
42.5°	6675.0	6678.2	6983.3	7011.3	7157.6	7219.9	7260.4	7291.5	7618.4	8153.9	7531.2
45°	6930.3	6945.9	7213.7	7428.5	7655.7	7677.5	7830.1	7932.8	8334.5	8991.4	8266.0
47.5°	7266.6	7247.9	7534.3	7876.8	8160.1	8309.6	8493.2	8605.3	9100.3	9900.5	9069.2
50°	7708.7	7652.6	7817.6	8356.3	8689.4	8854.4	9181.3	9368.1	9947.2	10769.1	9620.3
52.5°	8247.3	8153.9	8284.6	8873.1	9246.7	9579.8	9891.1	10099.7	10703.7	11441.6	10028.1
55°	8817.0	8624.0	8661.4	9421.0	9959.6	10274.1	10700.6	10918.5	11535.0	12045.6	10436.0
57.5°	9380.5	9259.1	9184.4	9947.2	10809.6	11111.6	11503.9	11787.2	12310.2	12581.1	10781.6
60°	9853.8	9822.6	9701.2	10762.9	11709.3	11967.7	12378.7	12553.1	12948.5	13076.1	10787.8
62.5°	10242.9	10137.1	10330.1	11419.8	12624.7	12917.3	13368.8	13384.3	13664.5	13384.3	10470.2
65°	10548.1	10554.3	10862.5	12213.7	13683.2	14116.0	14480.2	14439.8	14259.2	13200.6	9719.9
67.5°	10825.1	10943.5	11394.9	13085.4	15043.7	15451.6	15856.3	15320.8	14421.1	12341.4	8253.5
70°	11043.1	11161.4	12114.1	14147.1	16647.1	17244.9	17335.2	15669.5	13677.0	10454.7	6226.7
72.5°	11018.2	11233.0	12521.9	14993.9	18069.9	18586.7	17858.2	14688.8	11394.9	7288.4	3633.3
73°	11071.1	11177.0	12487.7	15230.5	18502.7	18761.1	17615.4	14380.6	10747.3	6538.1	3072.9
75°	10049.9	10408.0	11868.1	14844.5	18038.8	17992.1	16220.6	11983.3	7640.2	3434.0	1488.2
77.5°	7434.7	7662.0	9352.5	12207.5	14807.1	14508.2	12235.5	7658.9	3627.1	1273.4	803.2
80°	3633.3	3810.7	4956.5	7048.6	9682.5	9707.4	7593.5	3985.1	1553.6	719.2	548.0
82.5°	1815.1	1920.9	2381.7	3097.8	4763.4	4990.7	3851.2	2266.5	962.0	407.8	311.3
85°	1186.2	1260.9	1466.4	1516.2	2020.6	2132.7	1793.3	1768.4	625.8	221.0	252.2
87.5°	787.7	800.1	899.8	765.9	809.5	778.3	865.5	1114.6	183.7	93.4	68.5
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: P481066  
 CATALOG NUMBER: IFLD-M-SA4E-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4	4953.4
2.5°	4937.8	4894.2	4847.5	4782.1	4735.4	4663.8	4598.4	4570.4	4564.2	4567.3	4536.2
5°	4810.1	4747.9	4654.5	4520.6	4442.8	4324.5	4224.8	4171.9	4115.9	4125.2	4100.3
7.5°	4632.7	4564.2	4421.0	4265.3	4072.3	3904.2	3810.7	3680.0	3605.3	3549.2	3580.4
10°	4576.6	4458.3	4243.5	4028.7	3729.8	3508.8	3293.9	3144.5	3041.8	2942.1	2985.7
12.5°	4548.6	4430.3	4131.4	3813.9	3427.8	3091.6	2789.6	2605.9	2459.6	2372.4	2406.6
15°	4523.7	4377.4	4025.6	3577.2	3144.5	2702.4	2363.0	2120.2	1980.1	1896.0	1905.4
17.5°	4558.0	4349.4	3869.9	3346.9	2833.2	2359.9	1983.2	1731.0	1587.8	1534.9	1522.4
20°	4523.7	4318.2	3717.3	3116.5	2521.8	2033.0	1671.9	1463.3	1363.7	1320.1	1310.7
22.5°	4536.2	4243.5	3558.6	2861.2	2232.3	1759.0	1463.3	1304.5	1226.7	1204.9	1211.1
25°	4595.3	4199.9	3399.8	2581.0	1945.8	1556.7	1329.4	1208.0	1151.9	1130.1	1136.4
27.5°	4638.9	4237.3	3256.6	2316.3	1703.0	1376.1	1217.3	1136.4	1099.0	1083.4	1080.3
30°	4747.9	4259.1	3116.5	2079.7	1503.8	1257.8	1139.5	1074.1	1049.2	1039.9	1036.7
32.5°	4909.8	4299.5	2954.6	1861.8	1357.4	1145.7	1077.2	1021.2	1015.0	1005.6	1008.7
35°	5174.4	4439.6	2774.0	1675.0	1217.3	1071.0	1011.8	974.5	974.5	974.5	983.8
37.5°	5554.2	4635.8	2612.1	1497.5	1127.0	1005.6	955.8	943.3	937.1	946.5	952.7
40°	6043.0	4872.4	2481.3	1357.4	1049.2	962.0	918.4	912.2	909.1	906.0	912.2
42.5°	6578.5	5174.4	2369.3	1248.5	993.2	915.3	884.2	878.0	865.5	871.7	881.1
45°	7110.9	5548.0	2269.6	1161.3	955.8	890.4	846.8	843.7	837.5	834.4	849.9
47.5°	7702.4	5915.4	2238.5	1108.4	927.8	853.1	821.9	818.8	800.1	797.0	809.5
50°	8163.2	6186.2	2272.8	1083.4	887.3	825.0	803.2	787.7	772.1	756.5	756.5
52.5°	8480.8	6373.0	2297.7	1064.8	865.5	787.7	759.7	753.4	737.9	722.3	716.1
55°	8767.2	6485.1	2303.9	1067.9	843.7	744.1	725.4	722.3	713.0	688.1	681.8
57.5°	8863.7	6438.4	2179.4	1039.9	831.3	716.1	691.2	697.4	684.9	663.1	660.0
60°	8854.4	6114.6	1896.0	1002.5	803.2	684.9	653.8	672.5	672.5	647.6	644.5
62.5°	8315.8	5367.4	1550.5	930.9	772.1	653.8	619.6	647.6	656.9	641.4	638.2
65°	7198.1	4371.2	1295.2	859.3	725.4	619.6	585.3	616.4	632.0	625.8	622.7
67.5°	5955.9	3343.7	1077.2	765.9	666.3	572.9	544.8	566.6	576.0	579.1	582.2
70°	4209.3	2226.1	899.8	663.1	585.3	523.0	491.9	495.0	491.9	501.3	501.3
72.5°	2288.3	1282.7	731.6	563.5	504.4	454.6	432.8	417.2	417.2	414.1	414.1
73°	1958.3	1151.9	697.4	548.0	482.6	442.1	417.2	404.7	404.7	401.6	398.5
75°	1099.0	843.7	597.8	470.1	417.2	386.1	367.4	348.7	345.6	345.6	345.6
77.5°	722.3	656.9	476.3	376.7	336.2	308.2	302.0	283.3	283.3	283.3	280.2
80°	541.7	516.8	367.4	286.4	258.4	236.6	230.4	217.9	214.8	202.4	205.5
82.5°	361.1	407.8	267.7	202.4	174.3	161.9	161.9	158.8	149.4	133.9	133.9
85°	286.4	333.1	193.0	124.5	102.7	87.2	90.3	87.2	84.1	68.5	65.4
87.5°	52.9	133.9	56.0	34.2	24.9	15.6	15.6	9.3	6.2	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)