

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: P480166

Luminaire Tested: **IFLD-M-SA4B-750-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480166  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

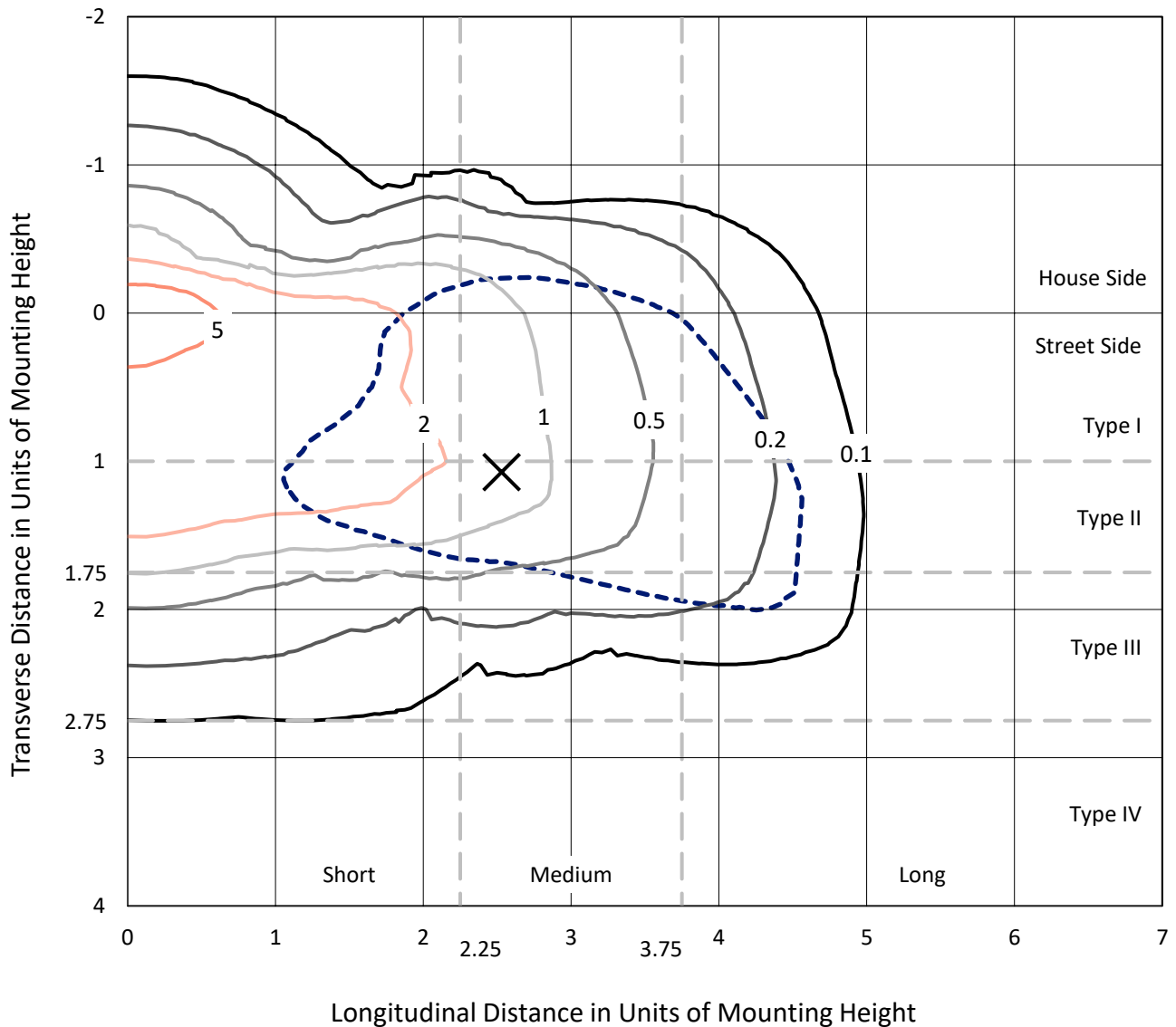
Lumens per Lamp: N/A  
Luminaire Lumens: 23293.7 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1  
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

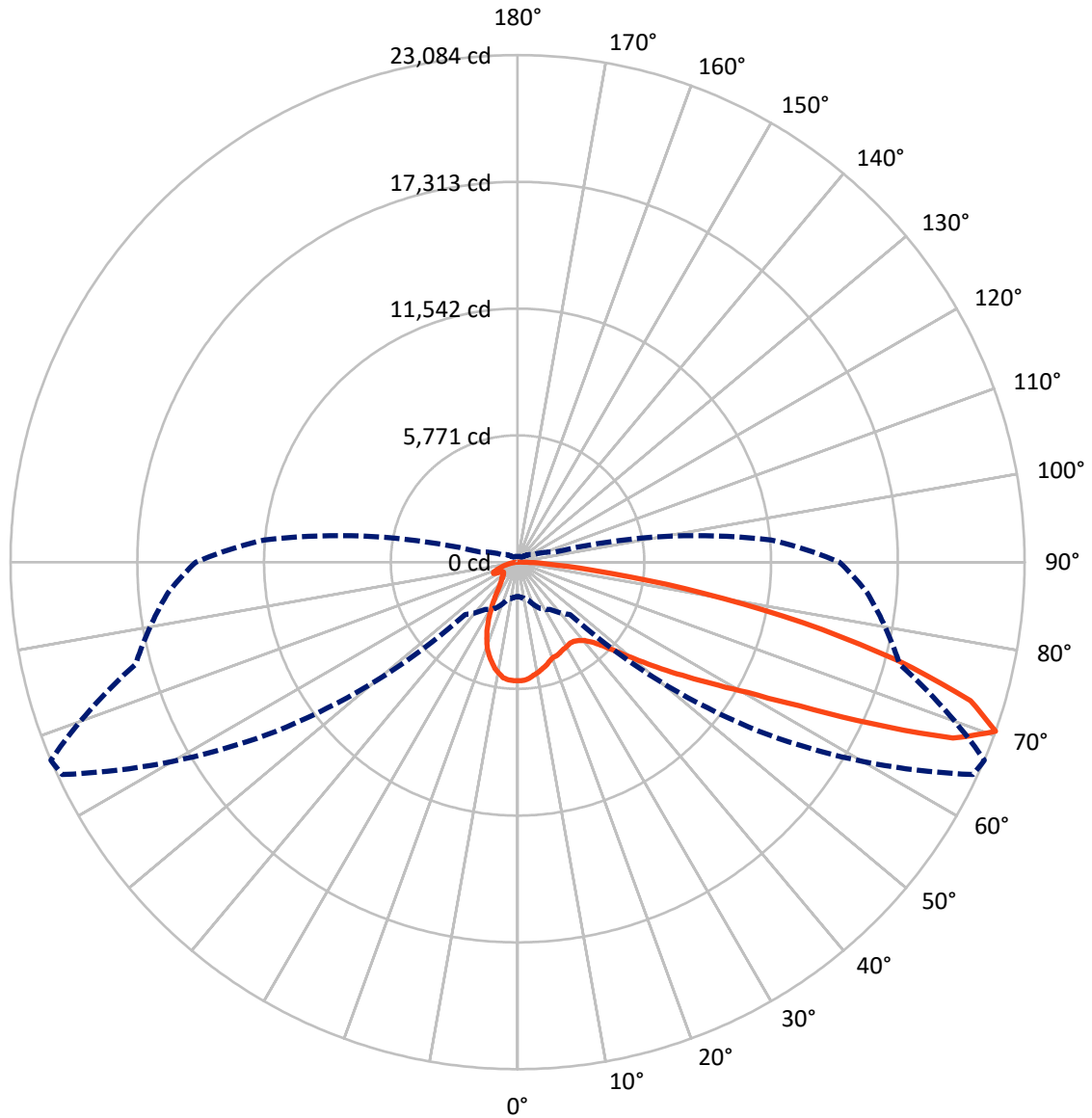
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4536.7	0.0	4536.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	18757.1	0.0	18757.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	23293.7	0.0	23293.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.5	2.0
10°-20°	1126.8	4.8
20°-30°	1521.7	6.5
30°-40°	2036.2	8.7
40°-50°	2994.2	12.9
50°-60°	4667.1	20.0
60°-70°	5749.1	24.7
70°-80°	4062.3	17.4
80°-90°	665.8	2.9
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°	23293.7	100.0
0°-180°	23293.7	100.0



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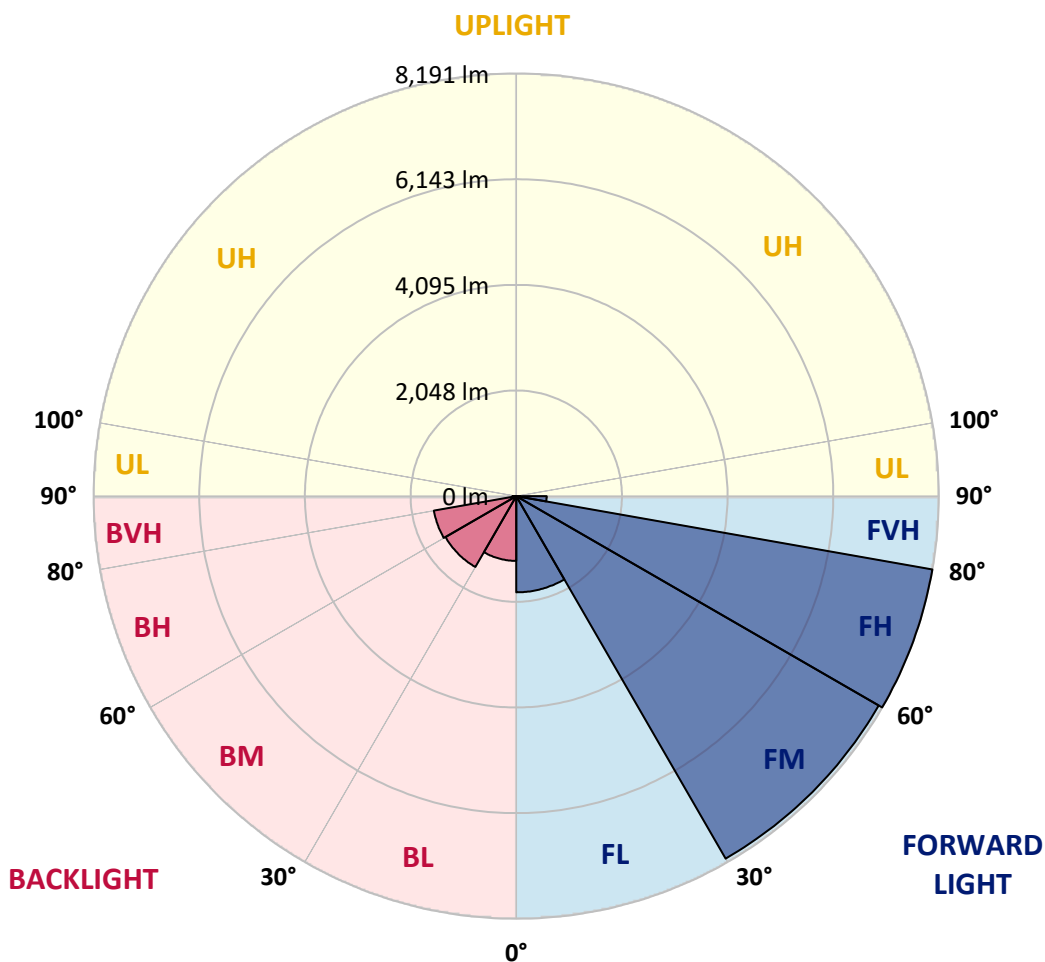
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1864.5	8.0			
FM (30°-60°)	8112.7	34.8			
FH (60°-80°)	8190.8	35.2			G4/12000
FVH (80°-90°)	589.0	2.5			G4/750
BL (0°-30°)	1254.5	5.4	B3/2500		
BM (30°-60°)	1584.8	6.8	B2/2500		
BH (60°-80°)	1620.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4
2.5°	5021.1	5077.8	5098.4	5129.4	5209.3	5268.6	5304.7	5346.0	5395.0	5436.3	5462.1
5°	4670.3	4701.3	4750.3	4783.8	4884.4	5044.3	5152.6	5328.0	5322.8	5387.3	5485.3
7.5°	4329.9	4360.9	4384.1	4451.1	4595.6	4740.0	4938.5	5222.2	5201.6	5351.2	5503.3
10°	4118.5	4095.3	4103.0	4216.5	4329.9	4492.4	4742.5	5031.4	5106.2	5338.3	5554.9
12.5°	3919.9	3894.1	3956.0	4028.2	4167.5	4314.5	4613.6	4874.1	4987.5	5291.8	5578.1
15°	3796.1	3778.1	3855.4	3886.4	4051.4	4226.8	4438.2	4755.4	4879.2	5235.1	5542.0
17.5°	3726.5	3741.9	3770.3	3837.4	3943.1	4092.7	4324.8	4675.5	4729.7	5165.5	5534.3
20°	3739.4	3757.4	3760.0	3788.4	3860.6	3976.6	4213.9	4590.4	4626.5	5152.6	5554.9
22.5°	3842.5	3816.7	3827.0	3809.0	3829.6	3919.9	4128.8	4476.9	4616.2	5044.3	5511.1
25°	3997.3	3961.2	3956.0	3894.1	3855.4	3881.2	4113.3	4448.6	4538.8	5010.8	5508.5
27.5°	4270.6	4216.5	4216.5	4123.6	3966.3	3925.0	4069.5	4402.1	4482.1	4979.8	5449.2
30°	4533.7	4533.7	4536.2	4404.7	4229.4	4025.6	4087.5	4384.1	4435.7	4887.0	5369.2
32.5°	4853.4	4845.7	4832.8	4768.3	4497.6	4193.2	4175.2	4360.9	4386.7	4856.0	5346.0
35°	5165.5	5144.9	5245.4	5188.7	4912.8	4520.8	4265.5	4371.2	4427.9	4809.6	5273.8
37.5°	5400.2	5413.1	5621.9	5658.0	5420.8	4892.1	4520.8	4474.3	4528.5	4876.7	5273.8
40°	5704.5	5756.0	5952.0	6073.2	5928.8	5382.1	4925.6	4647.1	4685.8	5026.2	5387.3
42.5°	6104.2	6148.0	6398.2	6555.5	6514.2	6006.2	5325.4	5008.2	4977.2	5276.4	5557.5
45°	6632.9	6640.6	6893.3	7110.0	7195.1	6658.7	5959.8	5464.6	5438.8	5707.0	5869.5
47.5°	7262.1	7254.4	7411.7	7643.8	7873.3	7437.5	6689.6	6158.4	6065.5	6323.4	6387.9
50°	7870.7	7837.2	7873.3	8169.9	8610.9	8412.3	7576.7	7006.8	6914.0	7055.8	7166.7
52.5°	8206.0	8247.2	8149.2	8541.2	9394.8	9565.0	8752.7	8020.3	7940.4	8010.0	8203.4
55°	7971.3	8056.4	7991.9	8363.3	9737.8	10970.5	10274.2	9193.7	9090.5	9064.7	9381.9
57.5°	6973.3	7128.0	7140.9	7728.9	9619.2	12058.8	12414.7	10578.5	10423.8	10160.8	10488.3
60°	5353.7	5508.5	5627.1	6323.4	8603.1	12708.7	14895.6	12548.8	12038.2	11357.4	11553.4
62.5°	3752.3	3858.0	3976.6	4404.7	6632.9	12327.0	17041.2	15323.7	14382.4	12618.4	12863.4
65°	2733.6	2816.1	2937.3	3190.1	4074.6	10199.4	18036.6	18619.5	17727.2	14222.5	14191.5
67.5°	2057.9	2109.5	2269.4	2674.3	2823.9	6300.2	17005.1	22100.9	21378.9	16004.5	15259.2
70°	1557.6	1601.5	1751.1	2305.5	2638.2	3378.3	13415.3	22877.2	23083.5	18003.1	15976.1
72.5°	1072.8	1121.8	1289.4	1921.3	2511.8	2679.4	8420.0	20783.1	21564.5	18825.8	15207.6
75°	657.6	691.1	789.1	1457.1	2493.8	2620.1	4634.2	17030.9	17858.7	17394.5	13304.4
77.5°	464.2	461.6	479.7	853.6	2161.1	2635.6	2857.4	12479.2	13283.8	12819.6	9028.6
80°	337.8	340.4	358.5	510.6	1467.4	2679.4	2251.4	8358.1	8598.0	6684.4	3561.4
82.5°	203.7	214.0	257.9	345.6	882.0	2419.0	2081.2	4644.6	4345.4	2145.6	980.0
85°	108.3	108.3	152.2	219.2	469.4	1805.2	2003.8	2210.1	1851.6	665.3	363.6
87.5°	25.8	25.8	43.8	87.7	188.3	863.9	1366.8	879.4	704.0	224.4	149.6
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°	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4	5392.4
2.5°	5451.7	5420.8	5459.5	5382.1	5320.2	5322.8	5227.4	5222.2	5209.3	5142.3	5165.5
5°	5513.6	5487.8	5444.0	5358.9	5222.2	5085.5	5003.0	4897.3	4853.4	4830.2	4840.5
7.5°	5572.9	5526.5	5400.2	5281.5	5070.1	4812.2	4662.6	4520.8	4340.2	4319.6	4283.5
10°	5588.4	5490.4	5328.0	5075.2	4794.1	4507.9	4167.5	3904.4	3765.2	3656.8	3615.6
12.5°	5565.2	5523.9	5211.9	4887.0	4461.5	4012.7	3615.6	3244.2	2986.3	2852.2	2816.1
15°	5562.6	5490.4	5083.0	4600.7	4056.6	3471.2	2906.4	2460.2	2189.5	2078.6	2078.6
17.5°	5565.2	5392.4	4930.8	4311.9	3579.5	2787.8	2166.3	1800.1	1650.5	1635.0	1647.9
20°	5513.6	5320.2	4770.9	3971.5	2981.2	2094.0	1573.1	1423.5	1423.5	1444.2	1451.9
22.5°	5467.2	5211.9	4518.2	3551.1	2372.6	1516.4	1279.1	1235.3	1284.3	1320.4	1335.9
25°	5402.7	5121.6	4260.3	3115.3	1805.2	1222.4	1111.5	1121.8	1168.2	1232.7	1227.5
27.5°	5309.9	4964.3	3953.4	2609.8	1343.6	1054.8	1026.4	1031.5	1080.5	1108.9	1103.8
30°	5204.2	4804.4	3669.7	2106.9	1065.1	967.1	964.5	977.4	985.1	1000.6	998.0
32.5°	5070.1	4593.0	3368.0	1637.6	959.3	918.1	907.8	900.0	907.8	905.2	897.4
35°	4974.6	4479.5	3061.1	1248.2	900.0	874.2	866.5	853.6	843.3	827.8	825.2
37.5°	4948.9	4366.0	2738.8	1018.7	853.6	840.7	814.9	791.7	778.8	771.1	765.9
40°	4933.4	4291.2	2424.1	894.9	814.9	802.0	771.1	740.1	727.2	719.5	722.1
42.5°	4987.5	4250.0	2104.4	833.0	781.4	758.2	724.7	688.6	686.0	680.8	688.6
45°	5178.4	4301.6	1807.8	789.1	747.9	709.2	665.3	647.3	644.7	639.6	644.7
47.5°	5611.6	4430.5	1555.1	760.8	711.8	678.2	631.8	606.0	603.5	600.9	600.9
50°	6209.9	4827.7	1343.6	727.2	688.6	642.1	598.3	569.9	564.8	554.5	554.5
52.5°	7148.6	5495.6	1217.2	709.2	647.3	608.6	562.2	531.2	518.4	508.0	508.0
55°	8206.0	6323.4	1194.0	678.2	603.5	567.4	526.1	495.1	482.2	469.4	464.2
57.5°	9410.3	7419.4	1359.1	657.6	572.5	526.1	479.7	451.3	441.0	428.1	422.9
60°	10532.1	8512.9	1872.3	626.7	544.1	487.4	441.0	412.6	399.7	386.8	386.8
62.5°	11829.3	9866.8	2741.3	626.7	518.4	446.1	399.7	379.1	371.4	358.5	355.9
65°	13363.7	11267.1	3375.7	665.3	510.6	410.0	361.0	340.4	332.7	324.9	322.4
67.5°	14532.0	12071.7	2903.8	768.5	544.1	379.1	322.4	309.5	304.3	296.6	291.4
70°	14655.7	11581.7	1751.1	830.4	577.7	348.1	288.8	275.9	275.9	268.2	263.0
72.5°	13544.2	10276.8	1178.5	740.1	523.5	312.0	255.3	245.0	239.8	234.7	232.1
75°	11334.2	8716.6	931.0	590.6	402.3	257.9	221.8	211.5	203.7	201.2	196.0
77.5°	7612.8	5665.8	688.6	461.6	296.6	208.9	185.7	175.4	167.6	165.0	157.3
80°	2924.4	2158.5	443.6	335.3	208.9	165.0	147.0	136.7	131.5	123.8	118.6
82.5°	861.3	698.9	247.6	206.3	134.1	113.5	105.7	98.0	90.3	82.5	79.9
85°	355.9	319.8	152.2	108.3	82.5	67.1	61.9	54.2	46.4	41.3	36.1
87.5°	165.0	136.7	69.6	41.3	28.4	15.5	7.7	2.6	0.0	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)