

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: P480829

Luminaire Tested: **IFLD-M-SA4B-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480829  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-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**

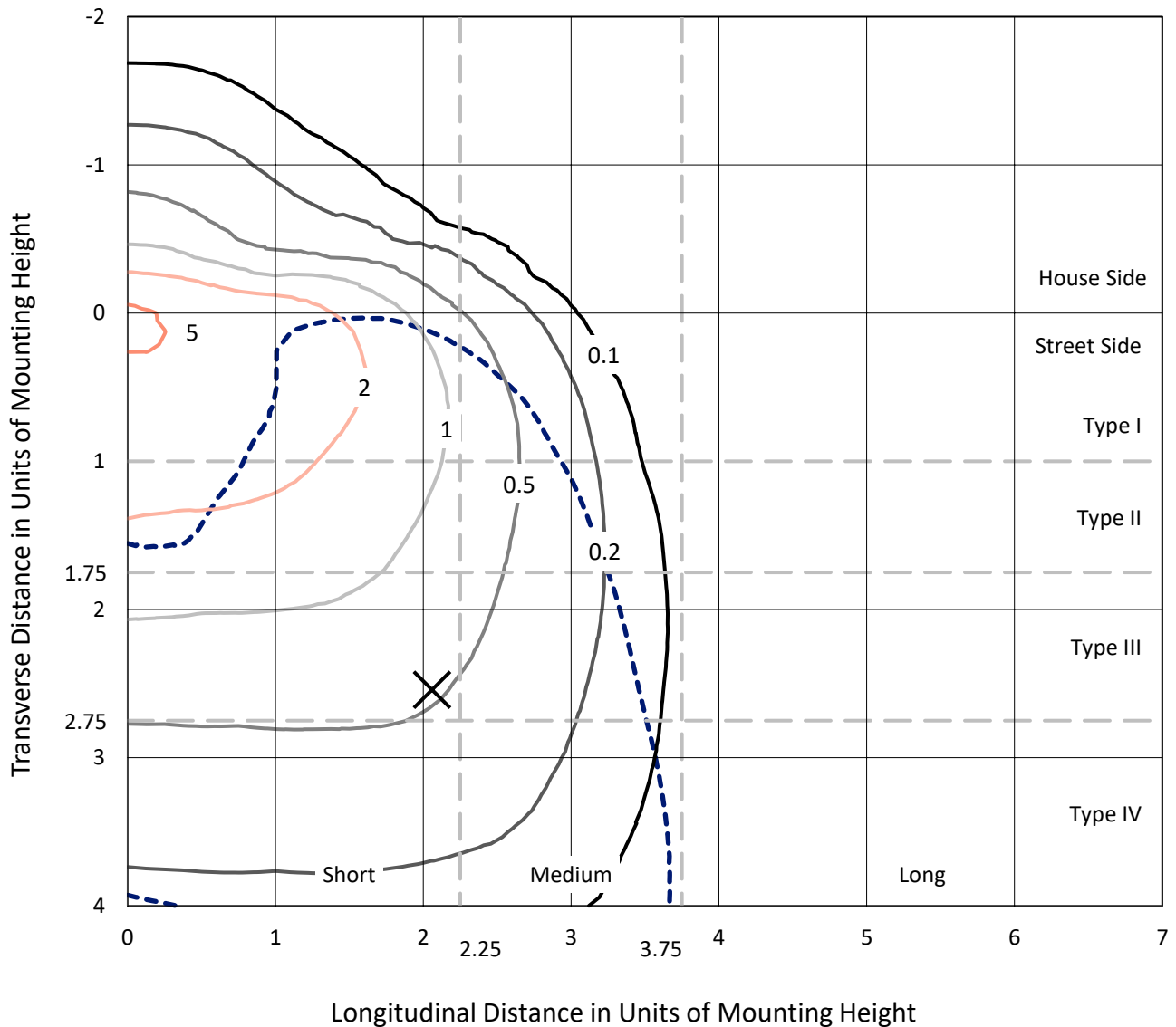
Lumens per Lamp: N/A  
Luminaire Lumens: 20117.1 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

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

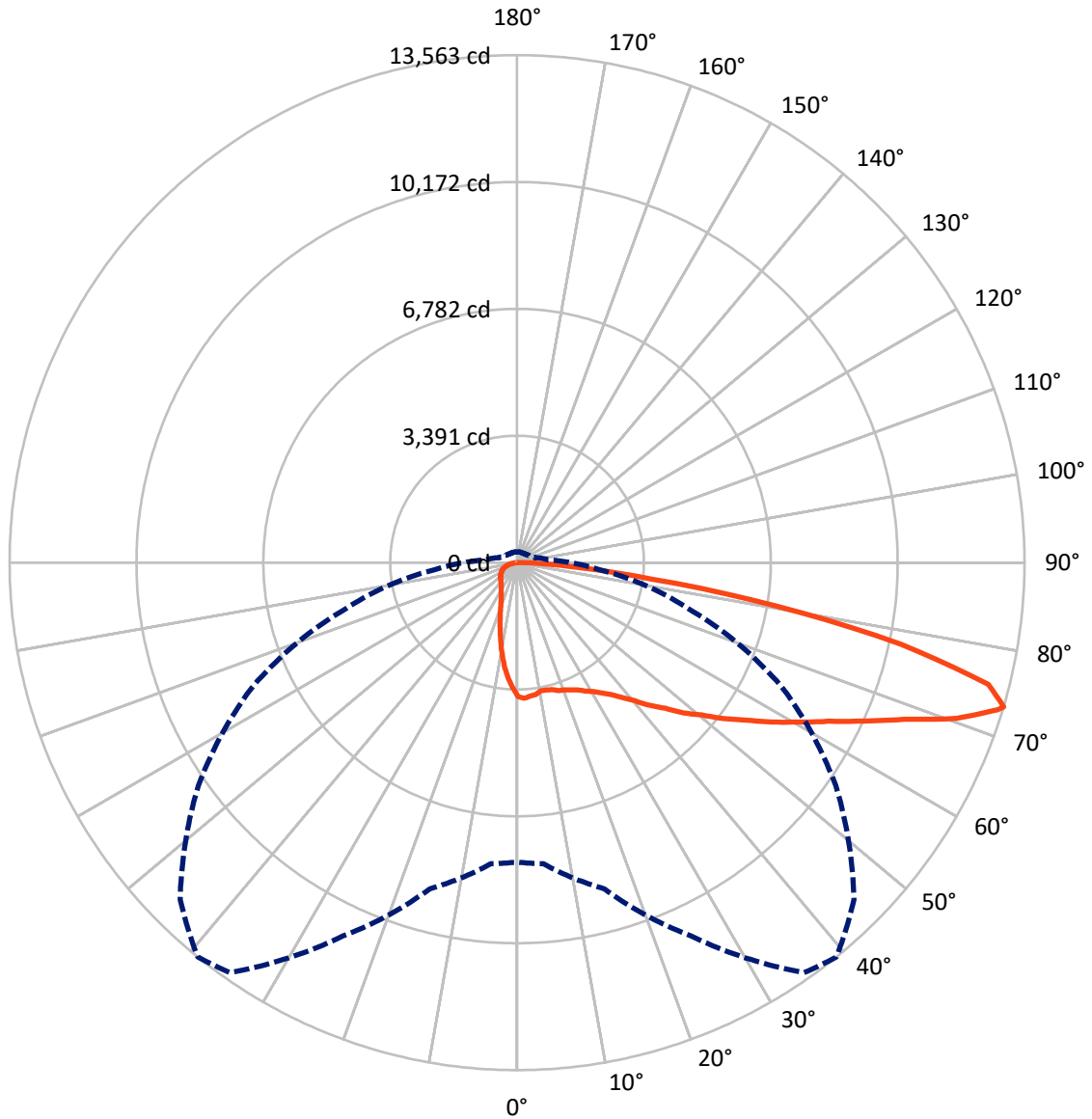
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2827.9	0.0	2827.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	17289.2	0.0	17289.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	20117.1	0.0	20117.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.9	1.5
10°-20°	790.2	3.9
20°-30°	1207.6	6.0
30°-40°	1760.7	8.8
40°-50°	2660.6	13.2
50°-60°	3852.7	19.2
60°-70°	4895.0	24.3
70°-80°	3968.1	19.7
80°-90°	671.4	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°	20117.1	100.0
0°-180°	20117.1	100.0

**Coefficient of Utilization**



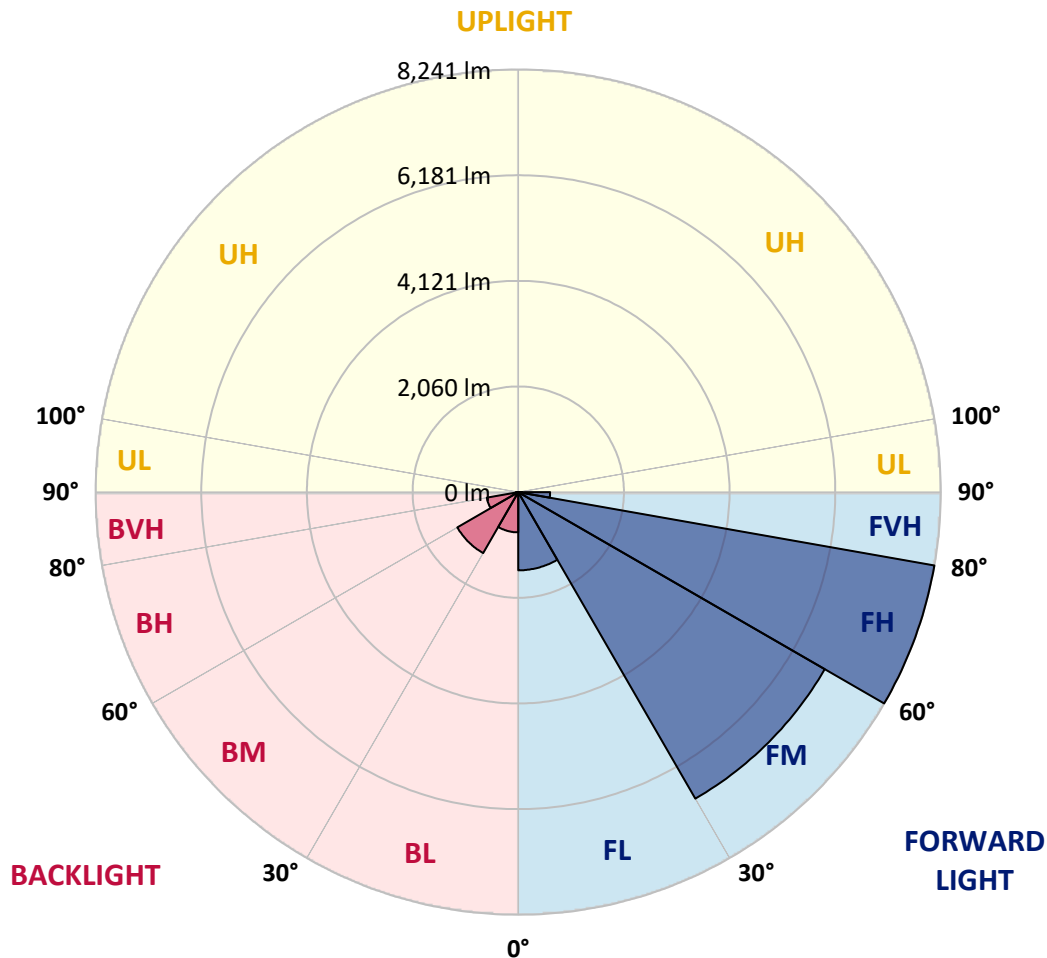
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.4	7.6			
FM (30°-60°)	6901.5	34.3			
FH (60°-80°)	8241.2	41.0			G4/12000
FVH (80°-90°)	622.1	3.1			G4/750
BL (0°-30°)	784.2	3.9	B2/1000		
BM (30°-60°)	1372.5	6.8	B2/2500		
BH (60°-80°)	622.0	3.1	B2/1000		G2/1000
BVH (80°-90°)	49.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0
2.5°	3666.5	3628.2	3635.0	3621.5	3635.0	3630.5	3623.7	3590.0	3623.7	3590.0	3581.0
5°	3617.0	3617.0	3639.5	3605.7	3610.2	3587.7	3610.2	3585.5	3563.0	3506.7	3490.9
7.5°	3601.2	3599.0	3601.2	3554.0	3576.5	3563.0	3540.5	3513.4	3468.4	3432.4	3380.6
10°	3493.2	3515.7	3490.9	3504.4	3522.4	3481.9	3479.7	3472.9	3452.7	3405.4	3373.9
12.5°	3434.7	3472.9	3486.4	3475.2	3490.9	3495.4	3481.9	3472.9	3448.2	3416.7	3326.6
15°	3459.4	3414.4	3452.7	3526.9	3511.2	3522.4	3524.7	3515.7	3504.4	3445.9	3387.4
17.5°	3466.2	3439.2	3520.2	3536.0	3556.2	3596.7	3569.7	3567.5	3524.7	3484.2	3398.7
20°	3481.9	3470.7	3536.0	3619.2	3621.5	3628.2	3641.7	3608.0	3585.5	3515.7	3385.1
22.5°	3540.5	3578.7	3639.5	3675.5	3695.8	3700.3	3700.3	3632.7	3608.0	3551.7	3448.2
25°	3716.0	3675.5	3761.0	3803.8	3774.5	3767.8	3752.0	3691.3	3664.2	3614.7	3477.4
27.5°	3844.3	3842.1	3891.6	3950.1	3871.3	3887.1	3830.8	3812.8	3752.0	3725.0	3529.2
30°	4019.9	4069.4	4067.1	4085.1	3981.6	3999.6	3927.6	3893.8	3860.1	3875.8	3682.3
32.5°	4244.9	4226.9	4256.2	4242.7	4139.2	4154.9	4069.4	4017.6	4028.9	4076.1	3891.6
35°	4389.0	4371.0	4382.2	4382.2	4350.7	4332.7	4296.7	4229.2	4283.2	4371.0	4125.7
37.5°	4544.3	4566.8	4632.1	4618.6	4578.1	4578.1	4573.6	4526.3	4596.1	4812.1	4499.3
40°	4681.6	4742.4	4782.9	4809.9	4857.1	4857.1	4895.4	4868.4	4994.4	5341.1	4956.2
42.5°	4825.6	4827.9	5048.5	5068.7	5174.5	5219.5	5248.8	5271.3	5507.6	5894.8	5444.6
45°	5010.2	5021.5	5215.0	5370.3	5534.6	5550.4	5660.7	5734.9	6025.3	6500.2	5975.8
47.5°	5253.3	5239.8	5446.8	5694.4	5899.3	6007.3	6140.1	6221.1	6579.0	7157.4	6556.5
50°	5572.9	5532.4	5651.7	6041.1	6281.9	6401.2	6637.5	6772.5	7191.2	7785.4	6954.9
52.5°	5962.3	5894.8	5989.3	6414.7	6684.8	6925.6	7150.7	7301.5	7738.1	8271.6	7249.7
55°	6374.2	6234.6	6261.6	6810.8	7200.2	7427.5	7735.9	7893.4	8339.1	8708.2	7544.6
57.5°	6781.6	6693.8	6639.8	7191.2	7814.7	8033.0	8316.6	8521.4	8899.5	9095.3	7794.4
60°	7123.7	7101.2	7013.4	7780.9	8465.1	8651.9	8949.0	9075.1	9360.9	9453.2	7798.9
62.5°	7405.0	7328.5	7468.0	8255.8	9126.8	9338.4	9664.8	9676.0	9878.6	9676.0	7569.3
65°	7625.6	7630.1	7852.9	8829.7	9892.1	10205.0	10468.3	10439.0	10308.5	9543.2	7026.9
67.5°	7825.9	7911.4	8237.8	9460.0	10875.7	11170.5	11463.1	11076.0	10425.5	8922.0	5966.8
70°	7983.5	8069.0	8757.7	10227.5	12034.8	12467.0	12532.3	11328.1	9887.6	7558.1	4501.5
72.5°	7965.5	8120.8	9052.6	10839.7	13063.4	13437.1	12910.4	10619.1	8237.8	5269.0	2626.6
73°	8003.7	8080.2	9027.8	11010.7	13376.3	13563.1	12734.8	10396.3	7769.6	4726.6	2221.5
75°	7265.5	7524.3	8579.9	10731.6	13040.9	13007.2	11726.5	8663.2	5523.4	2482.6	1075.9
77.5°	5374.8	5539.1	6761.3	8825.2	10704.6	10488.6	8845.5	5536.9	2622.1	920.6	580.7
80°	2626.6	2754.9	3583.2	5095.7	6999.9	7017.9	5489.6	2881.0	1123.1	519.9	396.1
82.5°	1312.2	1388.7	1721.8	2239.5	3443.7	3608.0	2784.2	1638.6	695.5	294.9	225.1
85°	857.5	911.6	1060.1	1096.1	1460.7	1541.8	1296.4	1278.4	452.4	159.8	182.3
87.5°	569.4	578.4	650.5	553.7	585.2	562.7	625.7	805.8	132.8	67.5	49.5
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°	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0	3581.0
2.5°	3569.7	3538.2	3504.4	3457.2	3423.4	3371.6	3324.4	3304.1	3299.6	3301.9	3279.4
5°	3477.4	3432.4	3364.9	3268.1	3211.8	3126.3	3054.3	3016.0	2975.5	2982.3	2964.3
7.5°	3349.1	3299.6	3196.1	3083.5	2944.0	2822.5	2754.9	2660.4	2606.4	2565.9	2588.4
10°	3308.6	3223.1	3067.8	2912.5	2696.4	2536.6	2381.3	2273.3	2199.0	2127.0	2158.5
12.5°	3288.4	3202.8	2986.8	2757.2	2478.1	2235.0	2016.7	1883.9	1778.1	1715.1	1739.8
15°	3270.4	3164.6	2910.2	2586.1	2273.3	1953.7	1708.3	1532.8	1431.5	1370.7	1377.5
17.5°	3295.1	3144.3	2797.7	2419.6	2048.2	1706.1	1433.7	1251.4	1147.9	1109.6	1100.6
20°	3270.4	3121.8	2687.4	2253.0	1823.1	1469.7	1208.7	1057.9	985.8	954.3	947.6
22.5°	3279.4	3067.8	2572.6	2068.5	1613.8	1271.7	1057.9	943.1	886.8	871.0	875.5
25°	3322.1	3036.3	2457.8	1865.9	1406.7	1125.4	961.1	873.3	832.8	817.0	821.5
27.5°	3353.6	3063.3	2354.3	1674.6	1231.2	994.8	880.0	821.5	794.5	783.3	781.0
30°	3432.4	3079.0	2253.0	1503.5	1087.1	909.3	823.8	776.5	758.5	751.8	749.5
32.5°	3549.5	3108.3	2136.0	1346.0	981.3	828.3	778.8	738.3	733.7	727.0	729.2
35°	3740.8	3209.6	2005.4	1210.9	880.0	774.3	731.5	704.5	704.5	704.5	711.2
37.5°	4015.4	3351.4	1888.4	1082.6	814.8	727.0	691.0	682.0	677.5	684.2	688.7
40°	4368.7	3522.4	1793.9	981.3	758.5	695.5	664.0	659.5	657.2	655.0	659.5
42.5°	4755.9	3740.8	1712.8	902.6	718.0	661.7	639.2	634.7	625.7	630.2	637.0
45°	5140.7	4010.9	1640.8	839.5	691.0	643.7	612.2	610.0	605.5	603.2	614.5
47.5°	5568.4	4276.5	1618.3	801.3	670.7	616.7	594.2	592.0	578.4	576.2	585.2
50°	5901.5	4472.3	1643.1	783.3	641.5	596.5	580.7	569.4	558.2	546.9	546.9
52.5°	6131.1	4607.3	1661.1	769.8	625.7	569.4	549.2	544.7	533.4	522.2	517.7
55°	6338.2	4688.3	1665.6	772.0	610.0	537.9	524.4	522.2	515.4	497.4	492.9
57.5°	6407.9	4654.6	1575.5	751.8	601.0	517.7	499.7	504.2	495.2	479.4	477.2
60°	6401.2	4420.5	1370.7	724.7	580.7	495.2	472.7	486.2	486.2	468.2	465.9
62.5°	6011.8	3880.3	1120.9	673.0	558.2	472.7	447.9	468.2	474.9	463.7	461.4
65°	5203.8	3160.1	936.3	621.2	524.4	447.9	423.1	445.7	456.9	452.4	450.2
67.5°	4305.7	2417.3	778.8	553.7	481.7	414.1	393.9	409.6	416.4	418.6	420.9
70°	3043.0	1609.3	650.5	479.4	423.1	378.1	355.6	357.9	355.6	362.4	362.4
72.5°	1654.3	927.3	528.9	407.4	364.6	328.6	312.9	301.6	301.6	299.4	299.4
73°	1415.7	832.8	504.2	396.1	348.9	319.6	301.6	292.6	292.6	290.3	288.1
75°	794.5	610.0	432.1	339.9	301.6	279.1	265.6	252.1	249.8	249.8	249.8
77.5°	522.2	474.9	344.4	272.3	243.1	222.8	218.3	204.8	204.8	204.8	202.6
80°	391.6	373.6	265.6	207.1	186.8	171.1	166.6	157.6	155.3	146.3	148.6
82.5°	261.1	294.9	193.6	146.3	126.0	117.0	117.0	114.8	108.0	96.8	96.8
85°	207.1	240.8	139.5	90.0	74.3	63.0	65.3	63.0	60.8	49.5	47.3
87.5°	38.3	96.8	40.5	24.8	18.0	11.3	11.3	6.8	4.5	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)