

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: P481057

Luminaire Tested: **IFLD-S-SA6A-830-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481057  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-830-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

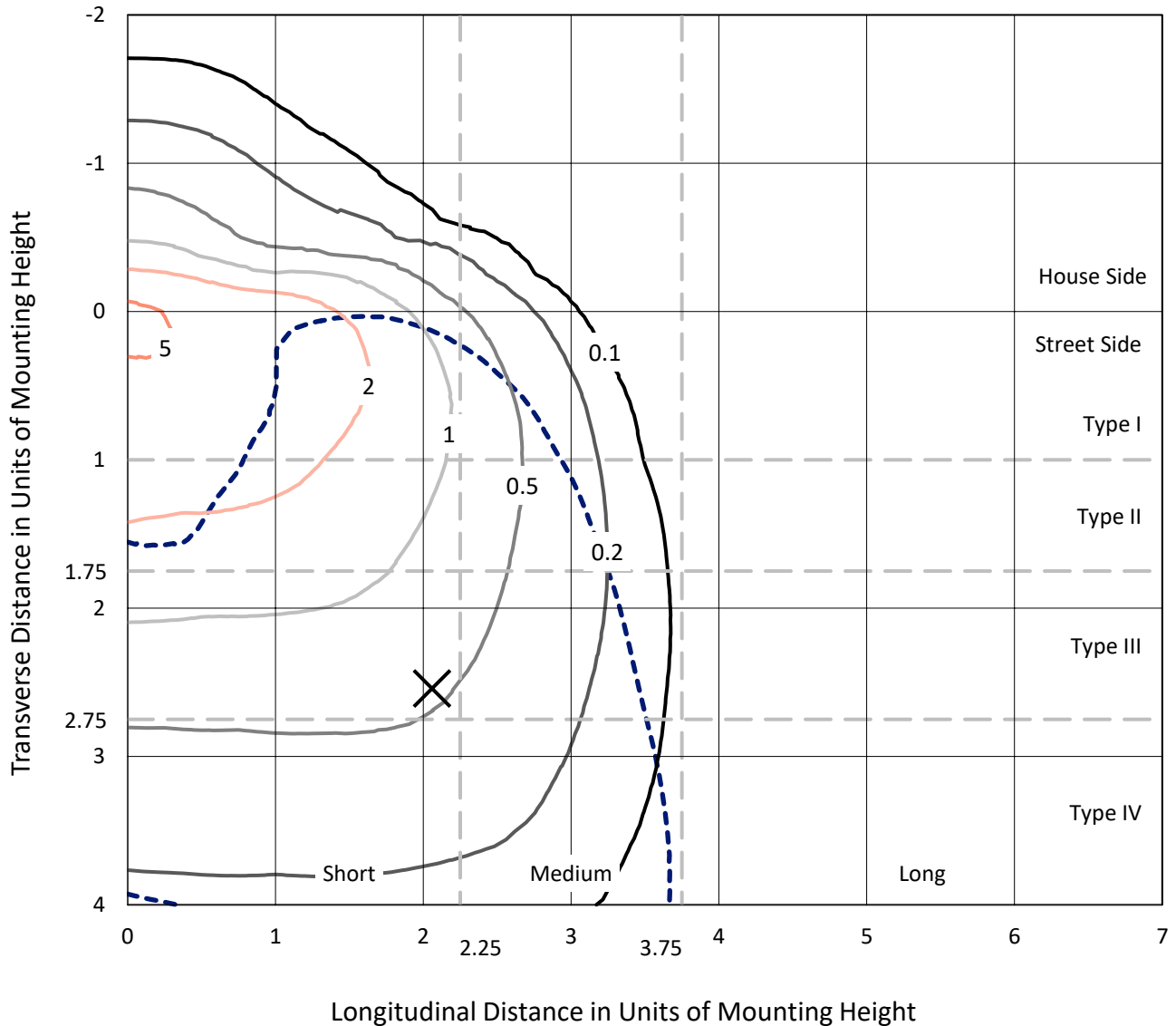
Lumens per Lamp: N/A  
Luminaire Lumens: 20744.5 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6  
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

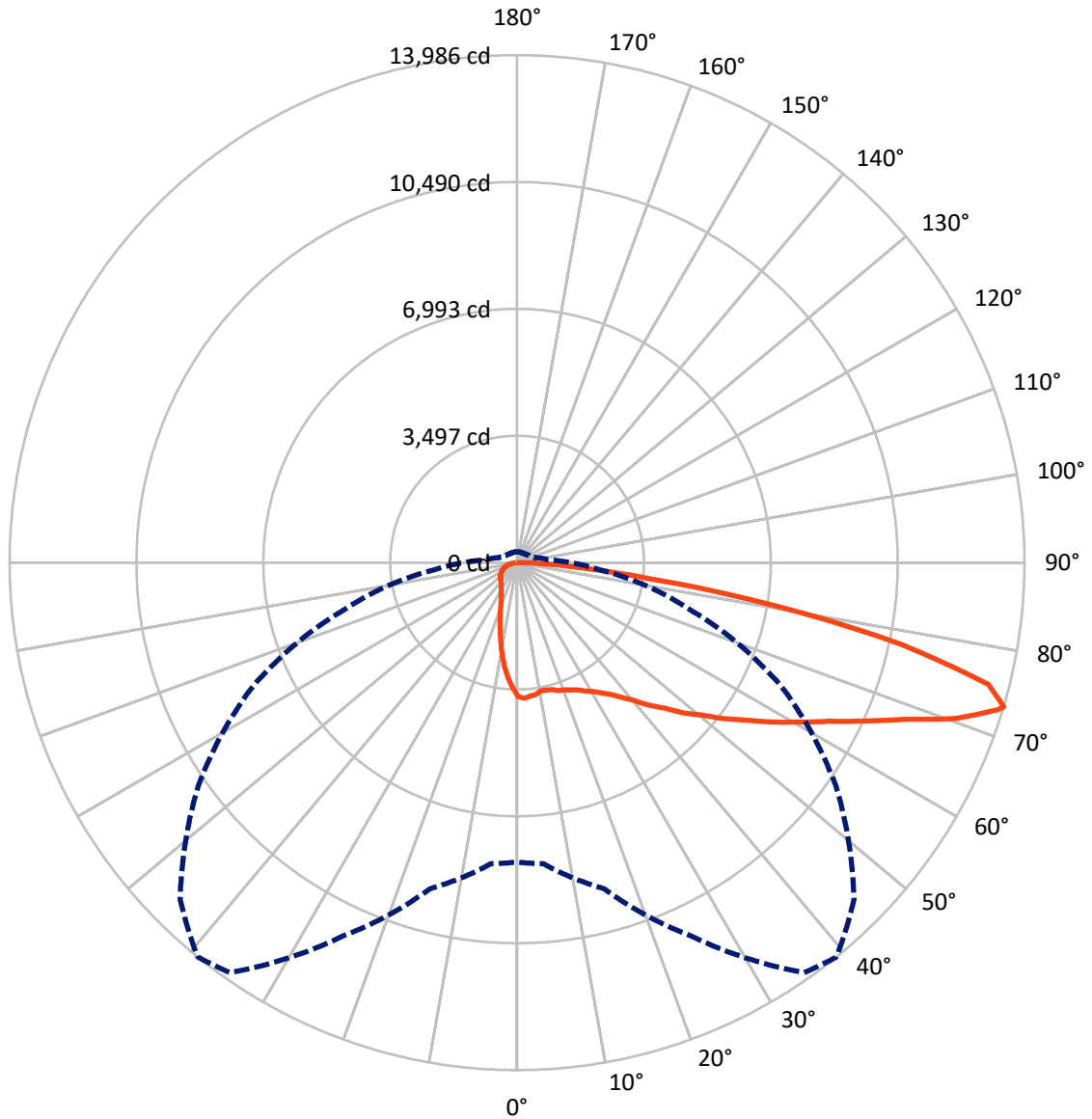
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2916.1	0.0	2916.1
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	17828.4	0.0	17828.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	20744.5	0.0	20744.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.6	1.5
10°-20°	814.9	3.9
20°-30°	1245.2	6.0
30°-40°	1815.6	8.8
40°-50°	2743.5	13.2
50°-60°	3972.8	19.2
60°-70°	5047.6	24.3
70°-80°	4091.9	19.7
80°-90°	692.3	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°	20744.5	100.0
0°-180°	20744.5	100.0

**Coefficient of Utilization**

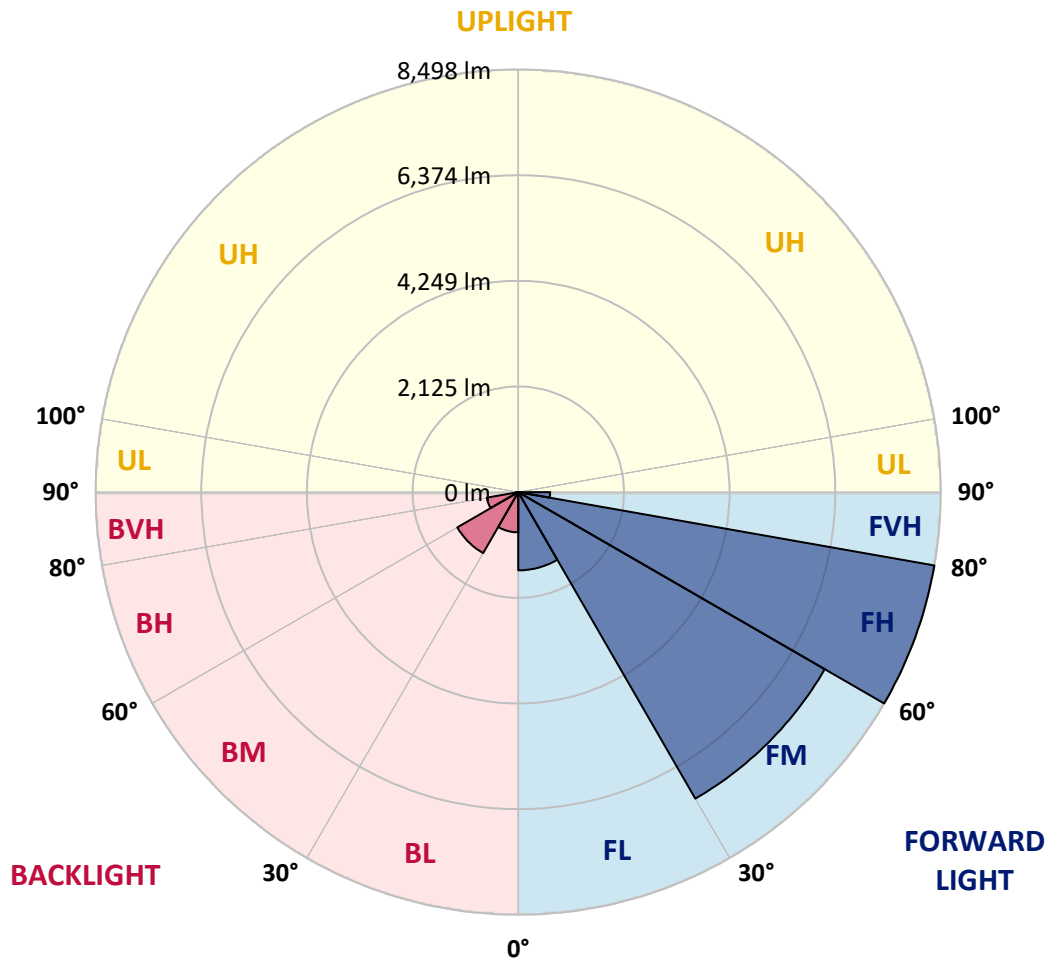


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1572.0	7.6			
FM (30°-60°)	7116.7	34.3			
FH (60°-80°)	8498.2	41.0			G4/12000
FVH (80°-90°)	641.5	3.1			G4/750
BL (0°-30°)	808.7	3.9	B2/1000		
BM (30°-60°)	1415.3	6.8	B2/2500		
BH (60°-80°)	641.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	50.8	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°	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6
2.5°	3780.8	3741.4	3748.3	3734.4	3748.3	3743.7	3736.7	3701.9	3736.7	3701.9	3692.6
5°	3729.8	3729.8	3753.0	3718.2	3722.8	3699.6	3722.8	3697.3	3674.1	3616.1	3599.8
7.5°	3713.5	3711.2	3713.5	3664.8	3688.0	3674.1	3650.9	3623.0	3576.6	3539.5	3486.1
10°	3602.1	3625.3	3599.8	3613.7	3632.3	3590.5	3588.2	3581.2	3560.4	3511.6	3479.1
12.5°	3541.8	3581.2	3595.2	3583.6	3599.8	3604.4	3590.5	3581.2	3555.7	3523.2	3430.4
15°	3567.3	3520.9	3560.4	3636.9	3620.7	3632.3	3634.6	3625.3	3613.7	3553.4	3493.0
17.5°	3574.3	3546.4	3630.0	3646.2	3667.1	3708.9	3681.0	3678.7	3634.6	3592.8	3504.6
20°	3590.5	3578.9	3646.2	3732.1	3734.4	3741.4	3755.3	3720.5	3697.3	3625.3	3490.7
22.5°	3650.9	3690.3	3753.0	3790.1	3811.0	3815.7	3815.7	3746.0	3720.5	3662.5	3555.7
25°	3831.9	3790.1	3878.3	3922.4	3892.2	3885.3	3869.0	3806.4	3778.5	3727.5	3585.9
27.5°	3964.2	3961.9	4012.9	4073.3	3992.0	4008.3	3950.3	3931.7	3869.0	3841.2	3639.3
30°	4145.2	4196.3	4194.0	4212.5	4105.8	4124.3	4050.1	4015.3	3980.4	3996.7	3797.1
32.5°	4377.3	4358.8	4388.9	4375.0	4268.2	4284.5	4196.3	4142.9	4154.5	4203.3	4012.9
35°	4525.9	4507.3	4518.9	4518.9	4486.4	4467.8	4430.7	4361.1	4416.8	4507.3	4254.3
37.5°	4686.0	4709.2	4776.5	4762.6	4720.8	4720.8	4716.2	4667.4	4739.4	4962.2	4639.6
40°	4827.6	4890.3	4932.0	4959.9	5008.6	5008.6	5048.1	5020.2	5150.2	5507.6	5110.8
42.5°	4976.1	4978.5	5205.9	5226.8	5335.9	5382.3	5412.5	5435.7	5679.4	6078.6	5614.4
45°	5166.5	5178.1	5377.7	5537.8	5707.2	5723.5	5837.2	5913.8	6213.2	6702.9	6162.1
47.5°	5417.1	5403.2	5616.7	5872.0	6083.2	6194.6	6331.6	6415.1	6784.2	7380.6	6761.0
50°	5746.7	5704.9	5827.9	6229.5	6477.8	6600.8	6844.5	6983.8	7415.5	8028.2	7171.8
52.5°	6148.2	6078.6	6176.1	6614.7	6893.2	7141.6	7373.7	7529.2	7979.5	8529.5	7475.8
55°	6573.0	6429.1	6456.9	7023.2	7424.7	7659.2	7977.1	8139.6	8599.2	8979.8	7779.9
57.5°	6993.0	6902.5	6846.8	7415.5	8058.4	8283.5	8575.9	8787.1	9177.1	9379.0	8037.5
60°	7345.8	7322.6	7232.1	8023.6	8729.1	8921.8	9228.1	9358.1	9652.9	9748.0	8042.1
62.5°	7636.0	7557.0	7700.9	8513.3	9411.5	9629.7	9966.2	9977.8	10186.7	9977.8	7805.4
65°	7863.4	7868.0	8097.8	9105.1	10200.6	10523.2	10794.8	10764.6	10630.0	9840.9	7246.0
67.5°	8070.0	8158.2	8494.7	9755.0	11214.9	11518.9	11820.6	11421.4	10750.7	9200.3	6152.9
70°	8232.4	8320.6	9030.8	10546.4	12410.2	12855.8	12923.1	11681.4	10196.0	7793.8	4641.9
72.5°	8213.9	8374.0	9334.9	11177.7	13470.8	13856.1	13313.0	10950.3	8494.7	5433.4	2708.6
73°	8253.3	8332.2	9309.4	11354.1	13793.5	13986.1	13132.0	10720.5	8011.9	4874.0	2290.8
75°	7492.1	7759.0	8847.5	11066.3	13447.6	13412.8	12092.2	8933.4	5695.6	2560.0	1109.4
77.5°	5542.4	5711.9	6972.2	9100.5	11038.5	10815.7	9121.4	5709.6	2703.9	949.3	598.8
80°	2708.6	2840.9	3695.0	5254.6	7218.2	7236.7	5660.8	2970.8	1158.2	536.1	408.5
82.5°	1353.1	1432.0	1775.5	2309.4	3551.1	3720.5	2871.0	1689.7	717.2	304.0	232.1
85°	884.3	940.0	1093.2	1130.3	1506.3	1589.9	1336.9	1318.3	466.5	164.8	188.0
87.5°	587.2	596.5	670.8	571.0	603.4	580.2	645.2	830.9	136.9	69.6	51.1
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°	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6	3692.6
2.5°	3681.0	3648.5	3613.7	3565.0	3530.2	3476.8	3428.1	3407.2	3402.5	3404.8	3381.6
5°	3585.9	3539.5	3469.8	3370.0	3312.0	3223.8	3149.5	3110.1	3068.3	3075.3	3056.7
7.5°	3453.6	3402.5	3295.8	3179.7	3035.8	2910.5	2840.9	2743.4	2687.7	2645.9	2669.1
10°	3411.8	3323.6	3163.5	3003.3	2780.5	2615.7	2455.6	2344.2	2267.6	2193.3	2225.8
12.5°	3390.9	3302.7	3079.9	2843.2	2555.4	2304.7	2079.6	1942.6	1833.6	1768.6	1794.1
15°	3372.4	3263.3	3001.0	2666.8	2344.2	2014.6	1761.6	1580.6	1476.1	1413.5	1420.4
17.5°	3397.9	3242.4	2885.0	2495.0	2112.1	1759.3	1478.5	1290.5	1183.7	1144.2	1134.9
20°	3372.4	3219.2	2771.2	2323.3	1880.0	1515.6	1246.4	1090.9	1016.6	984.1	977.1
22.5°	3381.6	3163.5	2652.9	2133.0	1664.1	1311.3	1090.9	972.5	914.5	898.2	902.9
25°	3425.7	3131.0	2534.5	1924.1	1450.6	1160.5	991.0	900.5	858.8	842.5	847.1
27.5°	3458.2	3158.8	2427.7	1726.8	1269.6	1025.9	907.5	847.1	819.3	807.7	805.4
30°	3539.5	3175.1	2323.3	1550.4	1121.0	937.7	849.5	800.7	782.2	775.2	772.9
32.5°	3660.2	3205.2	2202.6	1387.9	1011.9	854.1	803.1	761.3	756.6	749.7	752.0
35°	3857.4	3309.7	2068.0	1248.7	907.5	798.4	754.3	726.5	726.5	726.5	733.4
37.5°	4140.6	3455.9	1947.3	1116.4	840.2	749.7	712.5	703.3	698.6	705.6	710.2
40°	4505.0	3632.3	1849.8	1011.9	782.2	717.2	684.7	680.0	677.7	675.4	680.0
42.5°	4904.2	3857.4	1766.2	930.7	740.4	682.4	659.2	654.5	645.2	649.9	656.8
45°	5301.1	4135.9	1692.0	865.7	712.5	663.8	631.3	629.0	624.3	622.0	633.6
47.5°	5742.1	4409.8	1668.8	826.3	691.6	635.9	612.7	610.4	596.5	594.2	603.4
50°	6085.6	4611.7	1694.3	807.7	661.5	615.1	598.8	587.2	575.6	564.0	564.0
52.5°	6322.3	4751.0	1712.9	793.8	645.2	587.2	566.3	561.7	550.1	538.5	533.8
55°	6535.8	4834.6	1717.5	796.1	629.0	554.7	540.8	538.5	531.5	512.9	508.3
57.5°	6607.8	4799.7	1624.7	775.2	619.7	533.8	515.3	519.9	510.6	494.4	492.0
60°	6600.8	4558.4	1413.5	747.3	598.8	510.6	487.4	501.3	501.3	482.8	480.4
62.5°	6199.3	4001.3	1155.8	694.0	575.6	487.4	461.9	482.8	489.7	478.1	475.8
65°	5366.1	3258.6	965.5	640.6	540.8	461.9	436.3	459.5	471.2	466.5	464.2
67.5°	4440.0	2492.7	803.1	571.0	496.7	427.1	406.2	422.4	429.4	431.7	434.0
70°	3137.9	1659.5	670.8	494.4	436.3	389.9	366.7	369.0	366.7	373.7	373.7
72.5°	1705.9	956.2	545.4	420.1	376.0	338.9	322.6	311.0	311.0	308.7	308.7
73°	1459.9	858.8	519.9	408.5	359.7	329.6	311.0	301.7	301.7	299.4	297.1
75°	819.3	629.0	445.6	350.5	311.0	287.8	273.9	259.9	257.6	257.6	257.6
77.5°	538.5	489.7	355.1	280.8	250.7	229.8	225.1	211.2	211.2	211.2	208.9
80°	403.8	385.3	273.9	213.5	192.6	176.4	171.8	162.5	160.1	150.9	153.2
82.5°	269.2	304.0	199.6	150.9	130.0	120.7	120.7	118.4	111.4	99.8	99.8
85°	213.5	248.3	143.9	92.8	76.6	65.0	67.3	65.0	62.7	51.1	48.7
87.5°	39.5	99.8	41.8	25.5	18.6	11.6	11.6	7.0	4.6	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)