

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: P480238

Luminaire Tested: **IFLD-S-SA6A-827-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480238  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

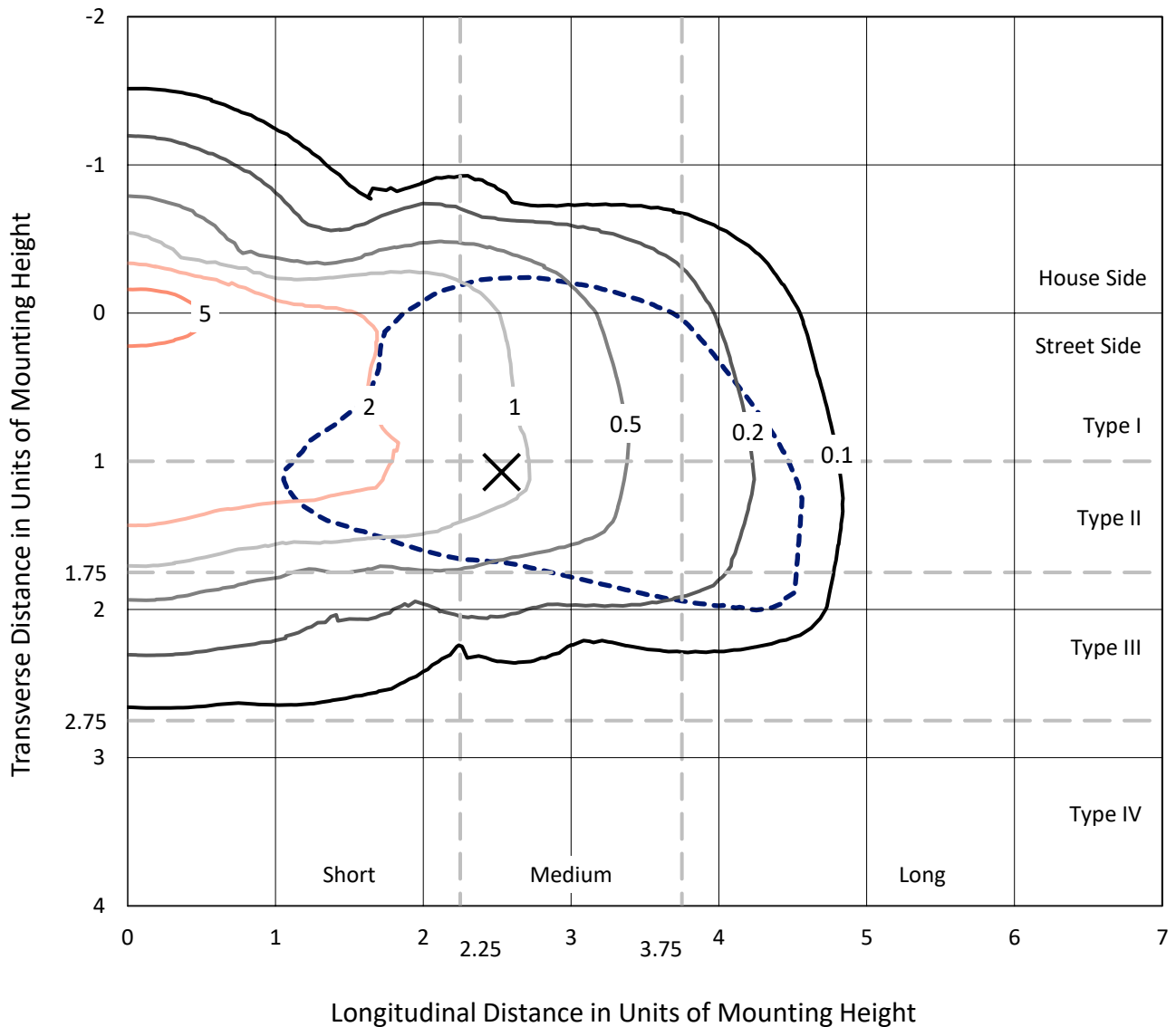
Lumens per Lamp: N/A  
Luminaire Lumens: 19781.9 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

REPORT NUMBER: P480238  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

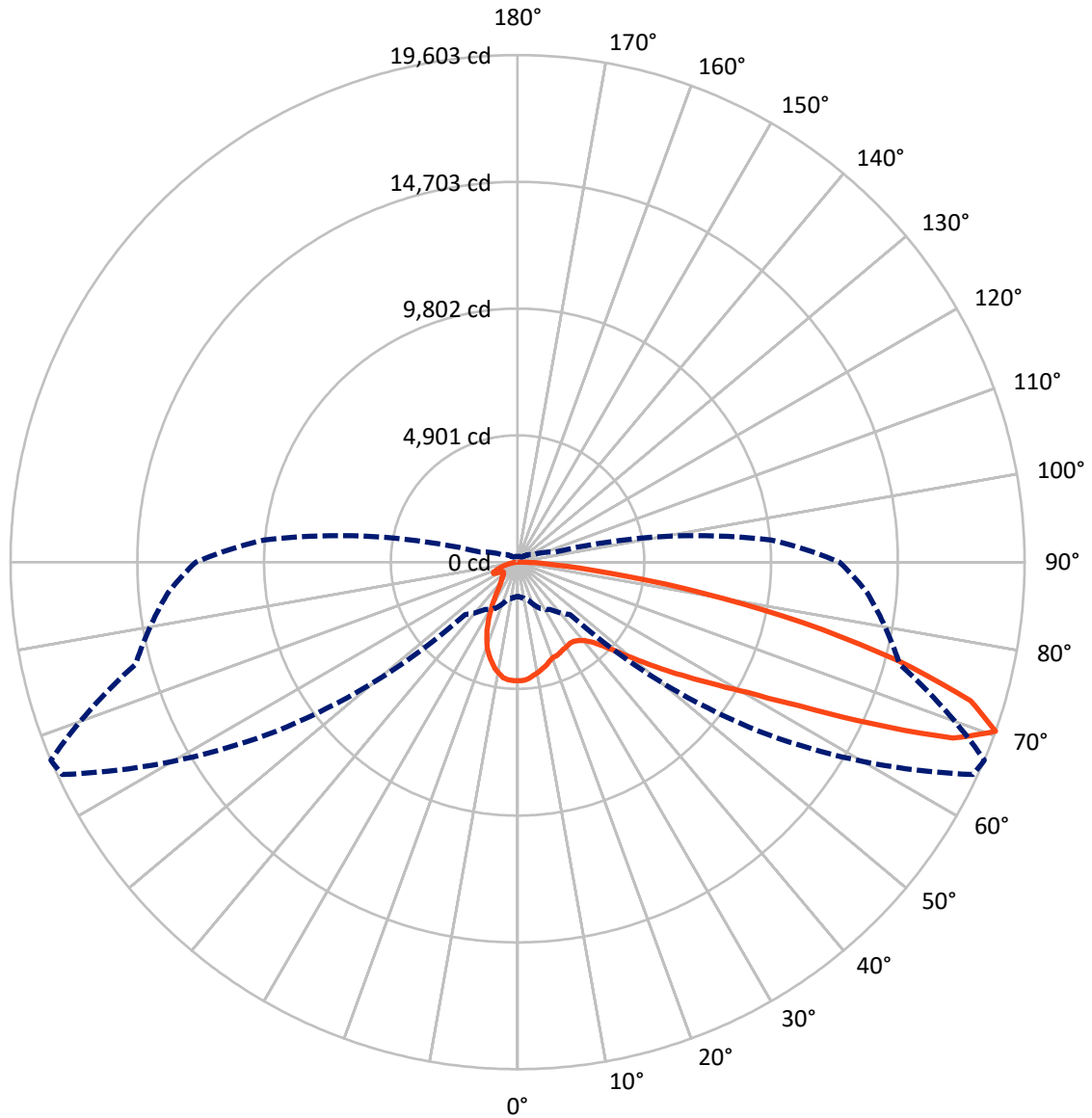
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type III - Medium - N/A

REPORT NUMBER: P480238  
CATALOG NUMBER: IFLD-S-SA6A-827-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P480238  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3852.7	0.0	3852.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	15929.2	0.0	15929.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	19781.9	0.0	19781.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.6	2.0
10°-20°	956.9	4.8
20°-30°	1292.3	6.5
30°-40°	1729.2	8.7
40°-50°	2542.8	12.9
50°-60°	3963.5	20.0
60°-70°	4882.4	24.7
70°-80°	3449.8	17.4
80°-90°	565.4	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°	19781.9	100.0
0°-180°	19781.9	100.0

**Coefficient of Utilization**

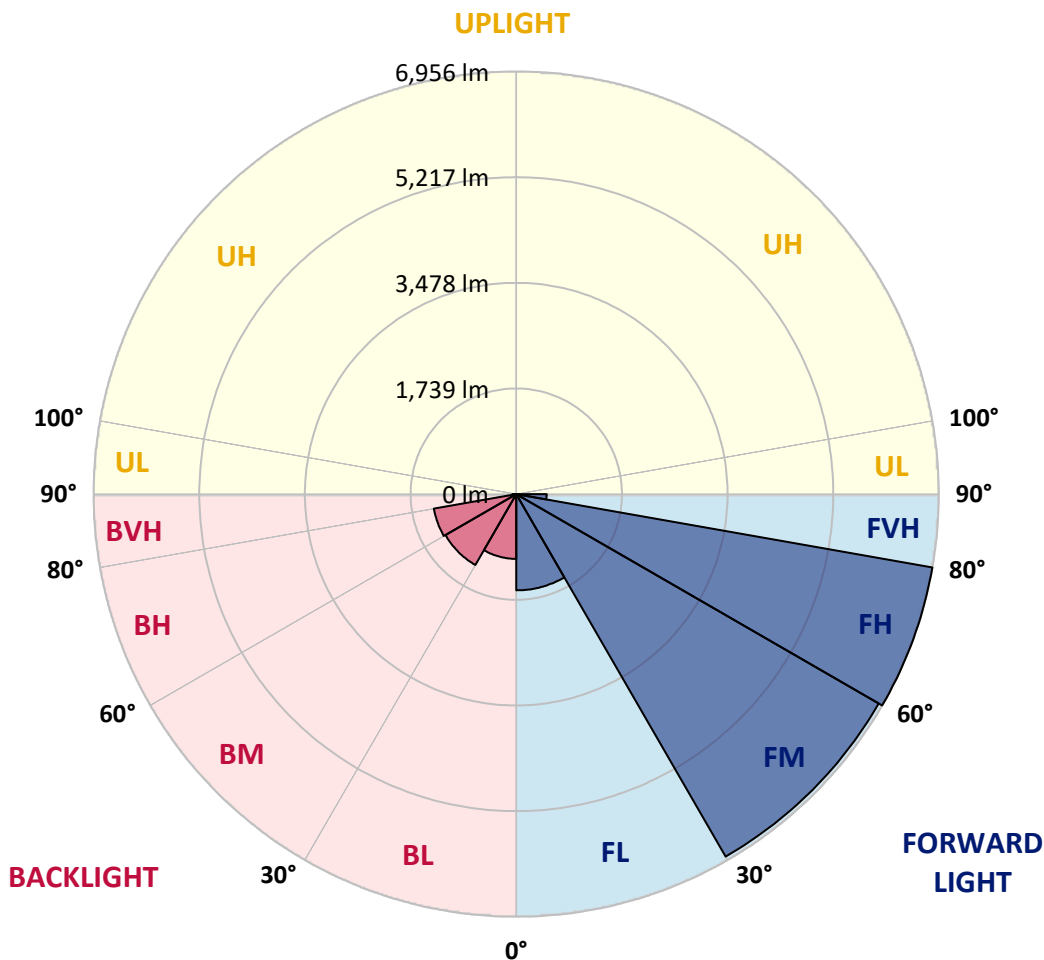


REPORT NUMBER: P480238  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-SL2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1583.4	8.0			
FM (30°-60°)	6889.6	34.8			
FH (60°-80°)	6956.0	35.2			G3/7500
FVH (80°-90°)	500.2	2.5			G4/750
BL (0°-30°)	1065.4	5.4	B3/2500		
BM (30°-60°)	1345.8	6.8	B2/2500		
BH (60°-80°)	1376.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	65.2	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





REPORT NUMBER: P480238

CATALOG NUMBER: IFLD-S-SA6A-827-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5
2.5°	4264.1	4312.3	4329.8	4356.1	4424.0	4474.3	4505.0	4540.0	4581.6	4616.7	4638.6
5°	3966.2	3992.5	4034.1	4062.6	4148.0	4283.8	4375.8	4524.7	4520.3	4575.1	4658.3
7.5°	3677.1	3703.4	3723.1	3780.1	3902.7	4025.4	4194.0	4434.9	4417.4	4544.4	4673.6
10°	3497.6	3477.8	3484.4	3580.8	3677.1	3815.1	4027.6	4272.8	4336.4	4533.5	4717.4
12.5°	3328.9	3307.0	3359.6	3420.9	3539.2	3664.0	3918.1	4139.2	4235.6	4494.0	4737.1
15°	3223.8	3208.5	3274.2	3300.4	3440.6	3589.5	3769.1	4038.5	4143.6	4445.9	4706.5
17.5°	3164.7	3177.8	3201.9	3258.8	3348.6	3475.7	3672.8	3970.6	4016.6	4386.7	4699.9
20°	3175.6	3190.9	3193.1	3217.2	3278.5	3377.1	3578.6	3898.3	3929.0	4375.8	4717.4
22.5°	3263.2	3241.3	3250.1	3234.7	3252.3	3328.9	3506.3	3802.0	3920.2	4283.8	4680.2
25°	3394.6	3364.0	3359.6	3307.0	3274.2	3296.1	3493.2	3777.9	3854.5	4255.3	4678.0
27.5°	3626.8	3580.8	3580.8	3501.9	3368.3	3333.3	3455.9	3738.5	3806.4	4229.0	4627.6
30°	3850.2	3850.2	3852.3	3740.7	3591.7	3418.7	3471.3	3723.1	3766.9	4150.2	4559.7
32.5°	4121.7	4115.2	4104.2	4049.5	3819.5	3561.1	3545.7	3703.4	3725.3	4123.9	4540.0
35°	4386.7	4369.2	4454.6	4406.4	4172.1	3839.2	3622.4	3712.2	3760.4	4084.5	4478.7
37.5°	4586.0	4597.0	4774.4	4805.0	4603.5	4154.6	3839.2	3799.8	3845.8	4141.4	4478.7
40°	4844.5	4888.3	5054.7	5157.6	5035.0	4570.7	4183.1	3946.5	3979.4	4268.5	4575.1
42.5°	5183.9	5221.1	5433.6	5567.2	5532.1	5100.7	4522.5	4253.1	4226.9	4480.9	4719.6
45°	5632.9	5639.5	5854.1	6038.0	6110.3	5654.8	5061.3	4640.8	4618.9	4846.6	4984.6
47.5°	6167.3	6160.7	6294.3	6491.4	6686.3	6316.2	5681.1	5229.9	5151.1	5370.1	5424.8
50°	6684.1	6655.6	6686.3	6938.2	7312.7	7144.0	6434.5	5950.4	5871.6	5992.1	6086.2
52.5°	6968.8	7003.9	6920.6	7253.5	7978.5	8123.0	7433.1	6811.1	6743.3	6802.4	6966.6
55°	6769.5	6841.8	6787.1	7102.4	8269.7	9316.6	8725.3	7807.6	7720.0	7698.1	7967.5
57.5°	5922.0	6053.4	6064.3	6563.7	8169.0	10240.8	10543.0	8983.7	8852.3	8628.9	8907.1
60°	4546.6	4678.0	4778.8	5370.1	7306.1	10792.7	12649.9	10656.9	10223.3	9645.1	9811.6
62.5°	3186.6	3276.4	3377.1	3740.7	5632.9	10468.6	14472.0	13013.4	12214.1	10716.1	10924.1
65°	2321.5	2391.6	2494.5	2709.1	3460.3	8661.8	15317.4	15812.4	15054.6	12078.3	12052.0
67.5°	1747.7	1791.5	1927.3	2271.1	2398.1	5350.4	14441.4	18769.0	18155.8	13591.6	12958.7
70°	1322.8	1360.0	1487.1	1957.9	2240.5	2869.0	11392.8	19428.2	19603.4	15288.9	13567.5
72.5°	911.1	952.7	1095.0	1631.6	2133.1	2275.5	7150.6	17649.8	18313.4	15987.6	12914.9
75°	558.5	586.9	670.2	1237.4	2117.8	2225.1	3935.6	14463.3	15166.3	14772.1	11298.6
77.5°	394.2	392.0	407.4	724.9	1835.3	2238.3	2426.6	10597.8	11281.1	10886.9	7667.5
80°	286.9	289.1	304.4	433.6	1246.2	2275.5	1911.9	7098.0	7301.7	5676.7	3024.5
82.5°	173.0	181.8	219.0	293.5	749.0	2054.3	1767.4	3944.3	3690.3	1822.1	832.2
85°	92.0	92.0	129.2	186.2	398.6	1533.1	1701.7	1876.9	1572.5	565.0	308.8
87.5°	21.9	21.9	37.2	74.5	159.9	733.7	1160.7	746.8	597.9	190.5	127.0
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: P480238  
 CATALOG NUMBER: IFLD-S-SA6A-827-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5	4579.5
2.5°	4629.8	4603.5	4636.4	4570.7	4518.1	4520.3	4439.3	4434.9	4424.0	4367.0	4386.7
5°	4682.4	4660.5	4623.3	4551.0	4434.9	4318.8	4248.8	4159.0	4121.7	4102.0	4110.8
7.5°	4732.8	4693.3	4586.0	4485.3	4305.7	4086.7	3959.7	3839.2	3685.9	3668.4	3637.7
10°	4745.9	4662.7	4524.7	4310.1	4071.4	3828.3	3539.2	3315.8	3197.5	3105.5	3070.5
12.5°	4726.2	4691.1	4426.1	4150.2	3788.8	3407.8	3070.5	2755.1	2536.1	2422.2	2391.6
15°	4724.0	4662.7	4316.6	3907.1	3445.0	2947.8	2468.2	2089.3	1859.4	1765.2	1765.2
17.5°	4726.2	4579.5	4187.4	3661.8	3039.8	2367.5	1839.7	1528.7	1401.7	1388.5	1399.5
20°	4682.4	4518.1	4051.6	3372.7	2531.7	1778.3	1335.9	1208.9	1208.9	1226.4	1233.0
22.5°	4643.0	4426.1	3837.0	3015.7	2014.9	1287.8	1086.3	1049.0	1090.7	1121.3	1134.5
25°	4588.2	4349.5	3618.0	2645.6	1533.1	1038.1	943.9	952.7	992.1	1046.9	1042.5
27.5°	4509.4	4215.9	3357.4	2216.4	1141.0	895.7	871.7	876.0	917.6	941.7	937.4
30°	4419.6	4080.1	3116.5	1789.3	904.5	821.3	819.1	830.0	836.6	849.8	847.6
32.5°	4305.7	3900.5	2860.2	1390.7	814.7	779.7	770.9	764.3	770.9	768.7	762.1
35°	4224.7	3804.2	2599.6	1060.0	764.3	742.4	735.9	724.9	716.2	703.0	700.8
37.5°	4202.8	3707.8	2325.9	865.1	724.9	714.0	692.1	672.4	661.4	654.8	650.5
40°	4189.6	3644.3	2058.7	760.0	692.1	681.1	654.8	628.6	617.6	611.0	613.2
42.5°	4235.6	3609.2	1787.1	707.4	663.6	643.9	615.4	584.8	582.6	578.2	584.8
45°	4397.7	3653.1	1535.2	670.2	635.1	602.3	565.0	549.7	547.5	543.1	547.5
47.5°	4765.6	3762.6	1320.6	646.1	604.5	576.0	536.6	514.7	512.5	510.3	510.3
50°	5273.7	4099.8	1141.0	617.6	584.8	545.3	508.1	484.0	479.6	470.9	470.9
52.5°	6070.9	4667.1	1033.7	602.3	549.7	516.9	477.4	451.2	440.2	431.4	431.4
55°	6968.8	5370.1	1014.0	576.0	512.5	481.8	446.8	420.5	409.5	398.6	394.2
57.5°	7991.6	6300.9	1154.2	558.5	486.2	446.8	407.4	383.3	374.5	363.6	359.2
60°	8944.3	7229.4	1590.0	532.2	462.1	413.9	374.5	350.4	339.5	328.5	328.5
62.5°	10045.9	8379.2	2328.1	532.2	440.2	378.9	339.5	321.9	315.4	304.4	302.2
65°	11349.0	9568.5	2866.8	565.0	433.6	348.2	306.6	289.1	282.5	275.9	273.8
67.5°	12341.1	10251.8	2466.0	652.6	462.1	321.9	273.8	262.8	258.4	251.9	247.5
70°	12446.2	9835.6	1487.1	705.2	490.6	295.7	245.3	234.3	234.3	227.8	223.4
72.5°	11502.3	8727.5	1000.9	628.6	444.6	265.0	216.8	208.1	203.7	199.3	197.1
75°	9625.4	7402.5	790.6	501.5	341.7	219.0	188.3	179.6	173.0	170.8	166.4
77.5°	6465.1	4811.6	584.8	392.0	251.9	177.4	157.7	148.9	142.4	140.2	133.6
80°	2483.5	1833.1	376.7	284.7	177.4	140.2	124.8	116.1	111.7	105.1	100.7
82.5°	731.5	593.5	210.2	175.2	113.9	96.4	89.8	83.2	76.7	70.1	67.9
85°	302.2	271.6	129.2	92.0	70.1	56.9	52.6	46.0	39.4	35.0	30.7
87.5°	140.2	116.1	59.1	35.0	24.1	13.1	6.6	2.2	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)