

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: P480380

Luminaire Tested: **IFLD-S-SA3B-727-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480380  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

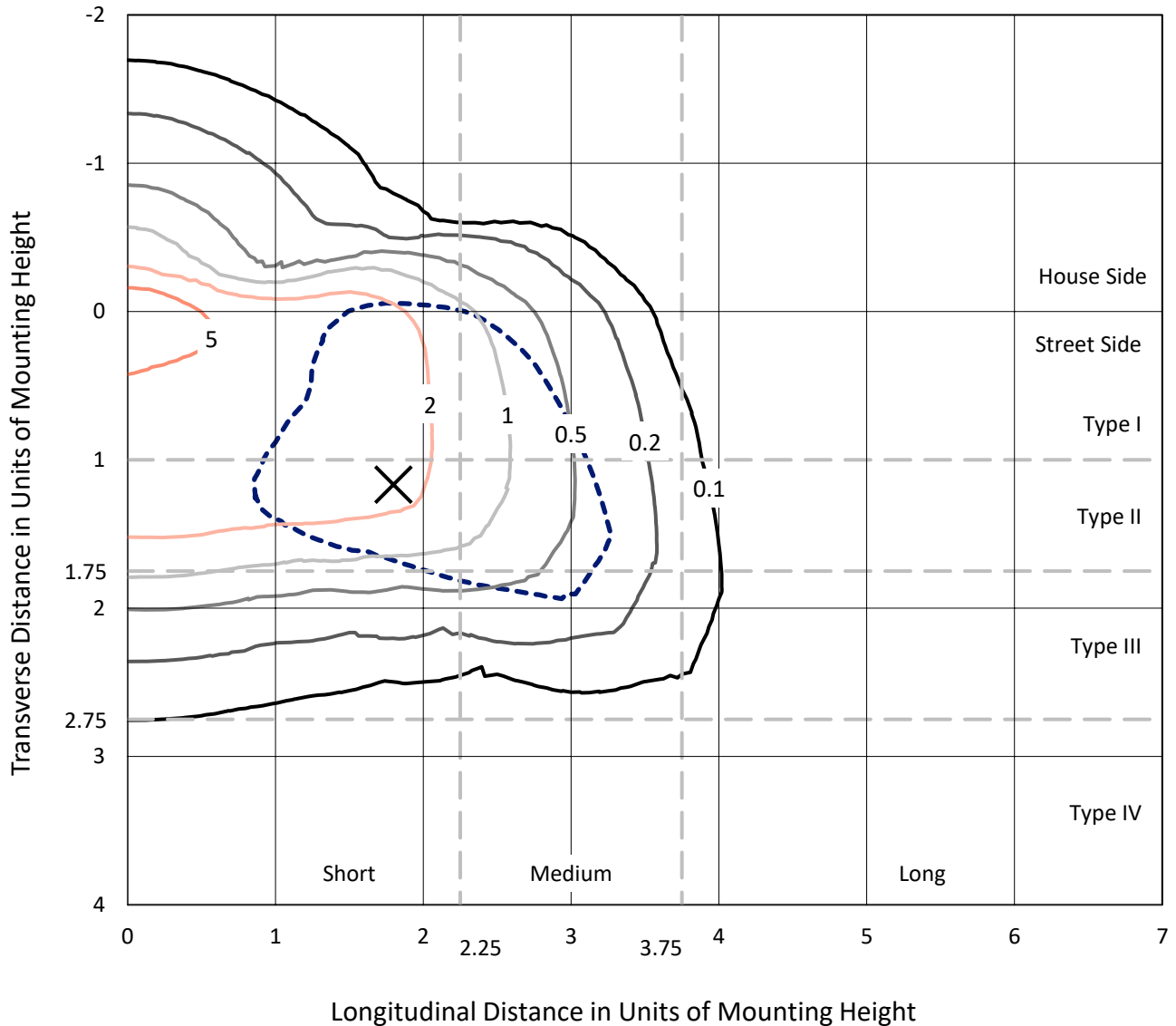
Lumens per Lamp: N/A  
Luminaire Lumens: 14041.5 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4  
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

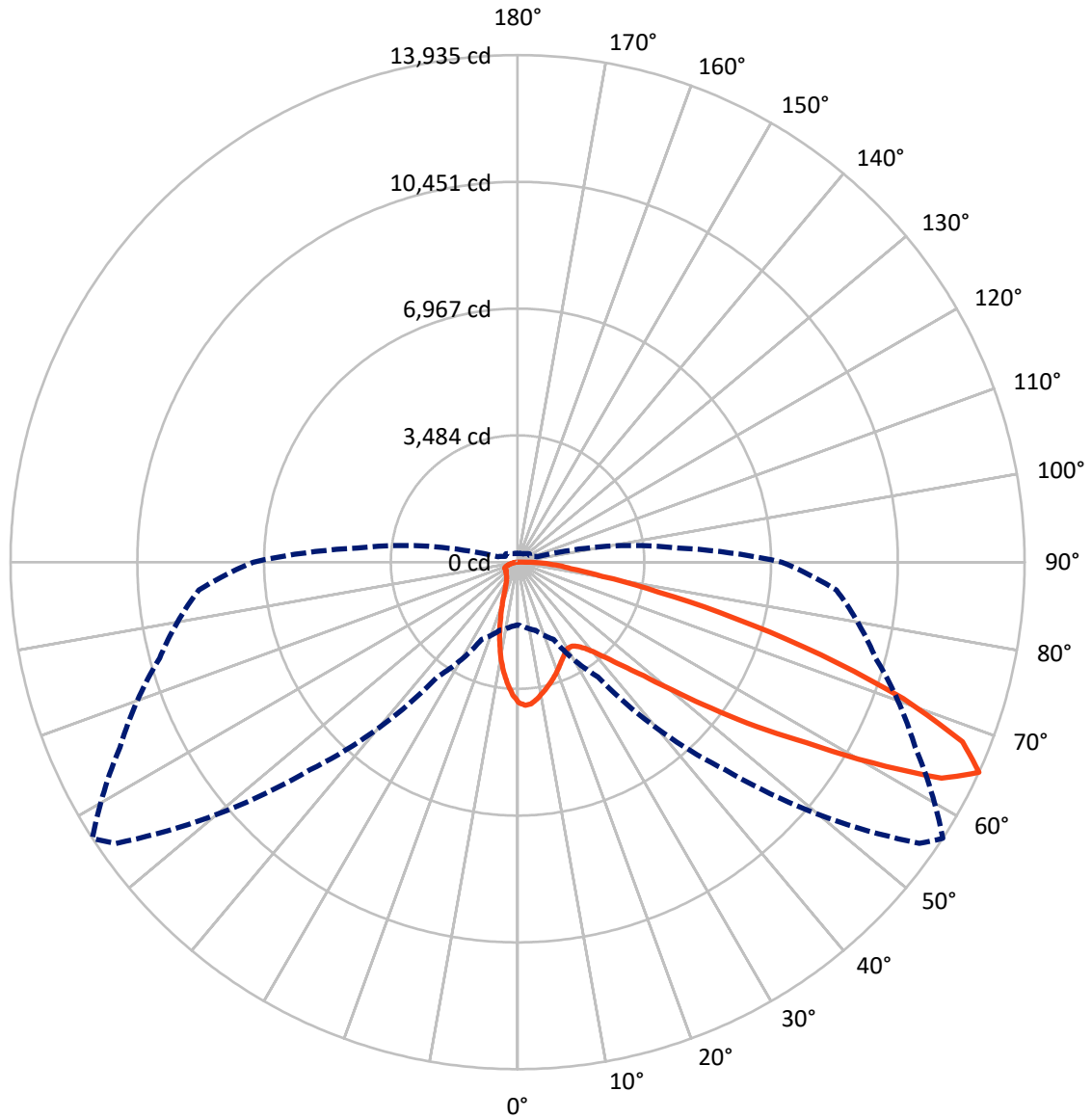
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3B-727-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2153.4	0.0	2153.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	11888.1	0.0	11888.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	14041.5	0.0	14041.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.3	2.3
10°-20°	695.9	5.0
20°-30°	899.7	6.4
30°-40°	1210.7	8.6
40°-50°	1930.6	13.7
50°-60°	3409.9	24.3
60°-70°	3751.3	26.7
70°-80°	1569.2	11.2
80°-90°	250.8	1.8
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°	14041.5	100.0
0°-180°	14041.5	100.0

**Coefficient of Utilization**

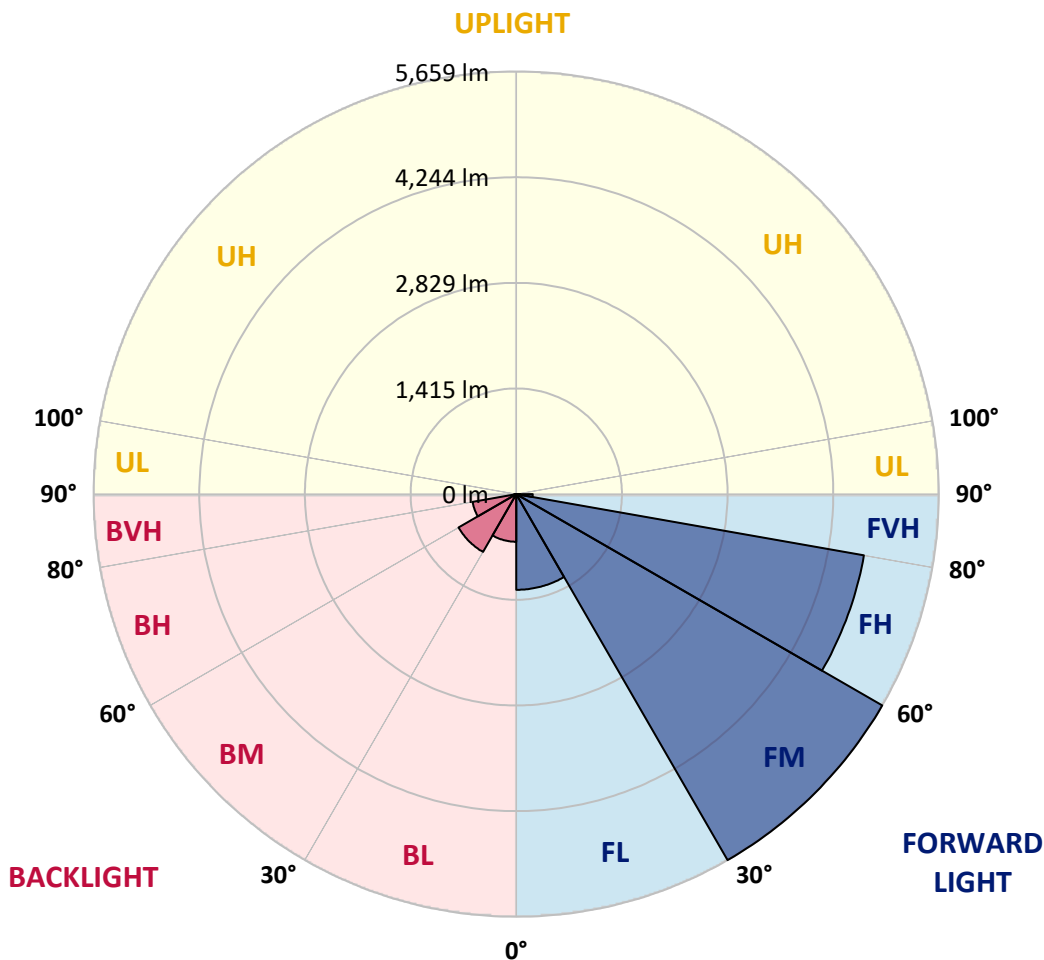


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1281.2	9.1			
FM (30°-60°)	5658.7	40.3			
FH (60°-80°)	4726.8	33.7			G2/5000
FVH (80°-90°)	221.4	1.6			G2/225
BL (0°-30°)	637.7	4.5	B2/1000		
BM (30°-60°)	892.5	6.4	B1/1000		
BH (60°-80°)	593.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	29.4	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-G2**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2
2.5°	3965.5	3971.8	3971.8	3984.4	3941.8	3962.3	3959.2	3940.2	3946.5	3913.3	3880.2
5°	3853.3	3848.6	3873.8	3877.0	3910.2	3919.7	3927.6	3914.9	3918.1	3845.4	3813.8
7.5°	3565.8	3564.2	3606.8	3643.2	3712.7	3777.5	3820.1	3807.5	3824.9	3779.1	3704.8
10°	3224.5	3260.9	3305.1	3341.4	3469.4	3551.6	3662.1	3673.2	3739.6	3728.5	3594.2
12.5°	2968.6	2984.4	3017.6	3121.8	3238.7	3374.6	3532.6	3546.8	3611.6	3643.2	3526.3
15°	2758.5	2772.7	2815.3	2892.7	3023.9	3185.0	3385.7	3422.0	3551.6	3562.6	3437.8
17.5°	2605.2	2616.3	2644.7	2722.1	2829.5	3036.5	3226.1	3290.9	3461.5	3515.2	3346.2
20°	2545.2	2521.5	2537.3	2586.2	2693.7	2853.2	3098.1	3155.0	3373.0	3478.9	3259.3
22.5°	2518.3	2497.8	2507.3	2504.1	2589.4	2703.2	2960.7	3020.7	3289.3	3436.2	3181.9
25°	2538.9	2538.9	2529.4	2521.5	2531.0	2605.2	2812.2	2905.4	3177.1	3399.9	3102.9
27.5°	2649.4	2606.8	2611.5	2578.4	2568.9	2568.9	2745.8	2801.1	3140.8	3379.3	3038.1
30°	2720.5	2741.1	2742.7	2693.7	2644.7	2556.2	2684.2	2737.9	3110.8	3404.6	3000.2
32.5°	2902.2	2892.7	2865.9	2856.4	2783.7	2684.2	2714.2	2750.6	3093.4	3461.5	3011.2
35°	3083.9	3079.2	3080.7	3076.0	3000.2	2853.2	2794.8	2843.8	3125.0	3561.0	3049.2
37.5°	3271.9	3284.6	3338.3	3338.3	3257.7	3098.1	3020.7	3006.5	3240.3	3723.8	3139.2
40°	3459.9	3491.5	3559.5	3666.9	3553.1	3404.6	3279.8	3257.7	3379.3	3941.8	3355.6
42.5°	3640.0	3692.2	3826.4	3986.0	3948.1	3799.6	3633.7	3608.4	3665.3	4265.7	3657.4
45°	3870.7	3914.9	4126.6	4371.5	4423.6	4292.5	4098.2	4077.6	4074.5	4739.6	4072.9
47.5°	4221.4	4268.8	4480.5	4727.0	4888.1	4908.7	4690.6	4668.5	4592.7	5379.5	4681.2
50°	4660.6	4738.0	4916.6	5204.1	5437.9	5657.5	5595.9	5531.1	5382.6	6123.6	5452.1
52.5°	4981.3	5076.1	5317.8	5686.0	6098.3	6447.5	6668.6	6668.6	6327.4	6940.4	6379.5
55°	5066.6	5123.5	5428.4	5960.9	6667.1	7550.2	8013.1	7978.4	7452.3	7799.8	7458.6
57.5°	4727.0	4801.2	5170.9	5728.6	6965.7	8581.9	9348.1	9356.0	8681.4	8798.3	8523.4
60°	3791.7	3815.4	4251.4	4997.1	6678.1	9412.9	11171.3	11201.3	10079.6	9687.8	9065.3
62.5°	2621.0	2696.8	3025.5	3679.5	5532.7	9319.7	12929.7	13078.2	11199.7	10157.0	9150.6
65°	1725.2	1771.0	1946.4	2344.5	3851.7	8077.9	13476.3	13934.5	12056.0	10183.9	8793.6
67.5°	1251.3	1259.2	1311.3	1516.7	2314.5	5809.2	12542.6	13188.8	12376.7	9959.5	7956.2
70°	1011.1	1017.4	1036.4	1167.5	1494.6	3635.3	10229.7	11242.4	11414.6	8896.3	6408.0
72.5°	821.5	829.4	853.1	976.4	1232.3	2022.2	7480.7	8714.6	9284.9	6581.7	4259.3
75°	646.2	652.5	709.4	831.0	1158.0	1388.7	4962.4	6171.0	6248.4	3847.0	1993.8
77.5°	442.4	453.4	522.9	704.6	1090.1	1214.9	3093.4	3952.8	3546.8	1505.6	685.7
80°	281.2	297.0	338.1	534.0	963.7	1159.6	1924.3	2360.3	1553.0	515.0	330.2
82.5°	165.9	181.7	222.8	346.0	756.8	1075.9	1355.5	1477.2	728.3	263.8	199.1
85°	91.6	102.7	134.3	208.5	443.9	955.8	1085.4	1060.1	417.1	140.6	124.8
87.5°	30.0	34.8	49.0	83.7	183.3	450.3	650.9	611.4	216.4	64.8	49.0
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°	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2	3861.2
2.5°	3858.0	3853.3	3782.2	3728.5	3636.9	3561.0	3531.0	3489.9	3488.4	3458.3	3450.4
5°	3764.8	3715.9	3606.8	3502.6	3339.8	3230.8	3131.3	3061.8	3033.4	2971.7	2957.5
7.5°	3644.8	3580.0	3412.5	3216.6	3025.5	2854.8	2700.0	2545.2	2458.3	2428.3	2395.1
10°	3520.0	3406.2	3158.2	2938.6	2671.6	2409.3	2166.0	1948.0	1829.5	1745.8	1709.4
12.5°	3420.4	3268.8	2952.8	2624.2	2271.9	1921.1	1638.3	1409.2	1275.0	1211.8	1183.3
15°	3308.3	3107.6	2728.4	2312.9	1873.7	1475.6	1199.1	1019.0	965.3	935.3	930.5
17.5°	3189.8	2957.5	2485.1	2006.4	1485.1	1110.6	932.1	859.5	835.8	823.1	816.8
20°	3079.2	2823.2	2235.5	1665.2	1162.8	891.0	807.3	769.4	767.8	774.1	772.6
22.5°	2922.8	2647.9	1989.1	1349.2	929.0	775.7	722.0	712.5	722.0	729.9	733.1
25°	2834.3	2504.1	1714.2	1071.2	767.8	688.8	671.4	668.3	682.5	692.0	690.4
27.5°	2742.7	2355.6	1458.2	857.9	673.0	627.2	624.0	627.2	641.4	655.6	654.1
30°	2671.6	2237.1	1218.1	717.3	600.4	583.0	579.8	583.0	590.9	592.5	592.5
32.5°	2613.1	2096.5	1014.3	622.5	556.1	541.9	545.1	543.5	545.1	546.6	548.2
35°	2578.4	2012.8	846.8	564.0	519.8	508.7	507.1	502.4	504.0	505.6	504.0
37.5°	2652.6	1971.7	714.1	522.9	494.5	485.0	481.9	478.7	474.0	474.0	474.0
40°	2764.8	1949.6	633.5	496.1	475.5	464.5	455.0	451.8	451.8	453.4	455.0
42.5°	2987.5	1985.9	578.2	475.5	451.8	439.2	429.7	431.3	436.0	440.8	437.6
45°	3309.8	2096.5	553.0	459.7	437.6	420.2	413.9	412.3	417.1	425.0	431.3
47.5°	3731.7	2268.7	543.5	445.5	428.1	404.4	396.5	401.3	407.6	418.7	413.9
50°	4422.1	2655.8	551.4	432.9	413.9	396.5	387.1	382.3	387.1	395.0	398.1
52.5°	5324.2	3358.8	581.4	426.6	404.4	390.2	374.4	366.5	371.3	377.6	377.6
55°	6403.2	4319.4	665.1	418.7	388.6	380.7	363.4	347.6	350.7	350.7	349.2
57.5°	7354.3	5044.5	764.7	407.6	379.2	368.1	346.0	327.0	323.9	325.5	327.0
60°	7780.9	5237.3	812.1	404.4	379.2	352.3	322.3	303.3	298.6	295.4	295.4
62.5°	7706.6	4903.9	715.7	390.2	388.6	339.7	300.2	279.6	273.3	267.0	268.6
65°	7257.9	4428.4	564.0	371.3	390.2	331.8	278.1	257.5	246.5	238.6	237.0
67.5°	6438.0	3780.6	447.1	357.1	374.4	317.6	259.1	235.4	225.9	218.0	214.9
70°	5036.6	2963.8	388.6	338.1	336.5	282.8	237.0	216.4	202.2	192.7	192.7
72.5°	3265.6	1873.7	333.4	300.2	290.7	237.0	205.4	192.7	181.7	173.8	173.8
75°	1478.8	870.5	268.6	251.2	237.0	189.6	173.8	167.5	158.0	150.1	150.1
77.5°	530.8	371.3	200.6	197.5	176.9	146.9	140.6	135.9	129.5	121.7	121.7
80°	297.0	235.4	150.1	143.8	123.2	109.0	101.1	101.1	98.0	93.2	91.6
82.5°	188.0	153.2	110.6	96.4	80.6	72.7	69.5	67.9	66.4	60.0	58.5
85°	118.5	104.3	72.7	56.9	47.4	36.3	34.8	33.2	30.0	26.9	26.9
87.5°	53.7	60.0	28.4	17.4	12.6	7.9	4.7	1.6	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)