

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: P484918

Luminaire Tested: **IFLD-S-SA6A-827-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484918  
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-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

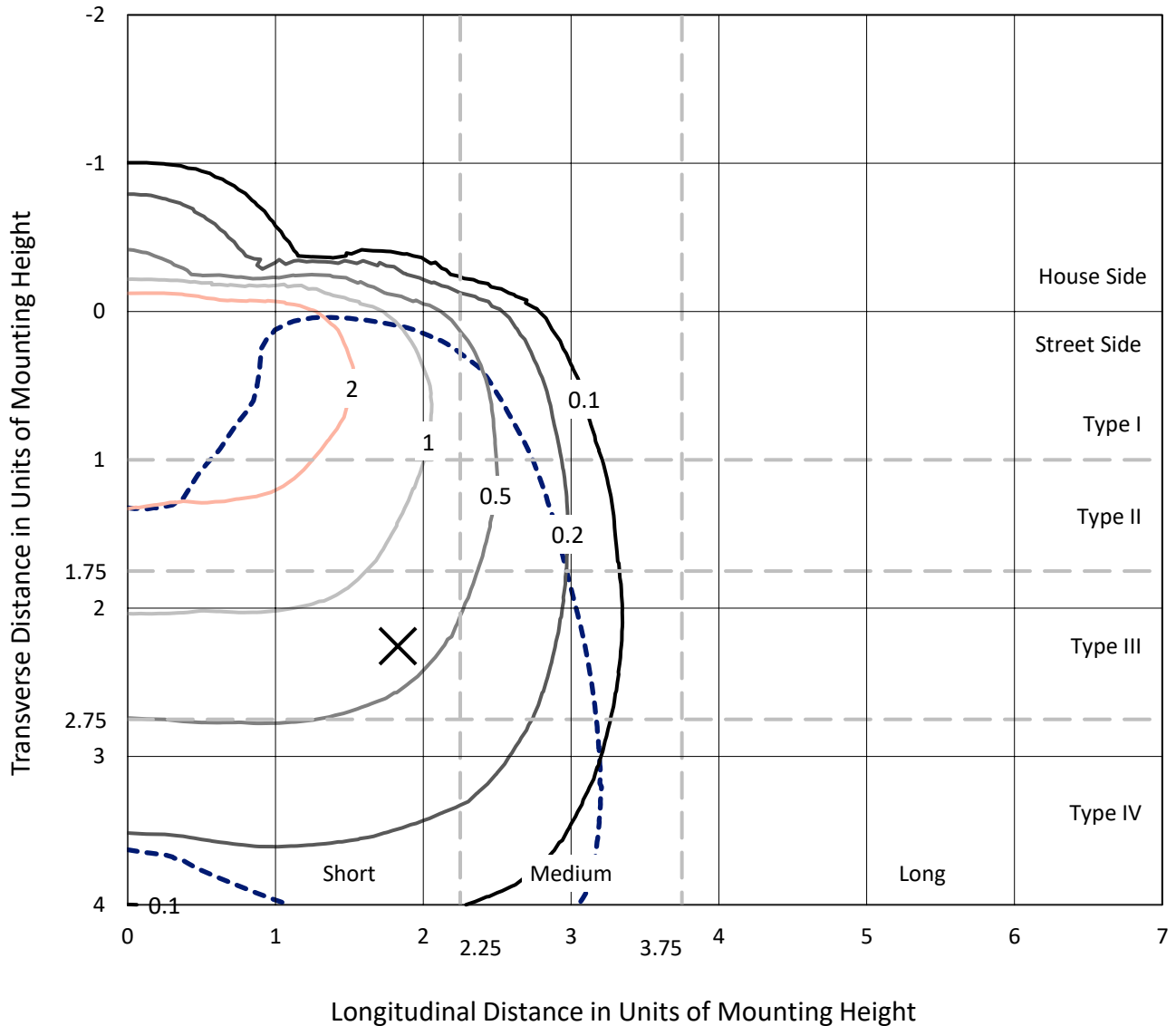
Lumens per Lamp: N/A  
Luminaire Lumens: 16390.4 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

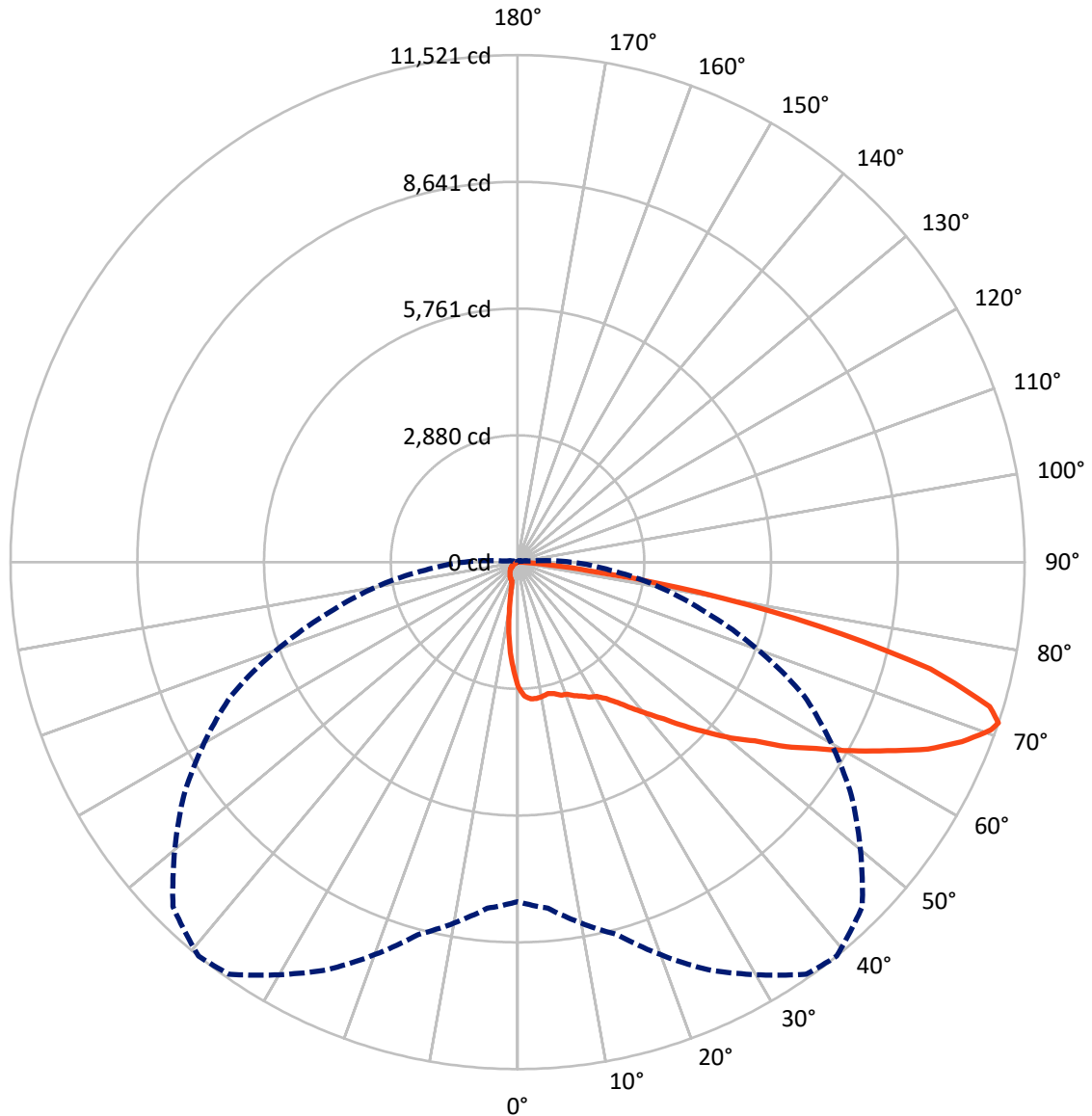
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1233.9	0.0	1233.9
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15156.5	0.0	15156.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16390.4	0.0	16390.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	1.5
10°-20°	587.1	3.6
20°-30°	942.5	5.8
30°-40°	1442.7	8.8
40°-50°	2315.7	14.1
50°-60°	3401.4	20.8
60°-70°	4284.0	26.1
70°-80°	2859.0	17.4
80°-90°	319.5	1.9
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°	16390.4	100.0
0°-180°	16390.4	100.0

**Coefficient of Utilization**



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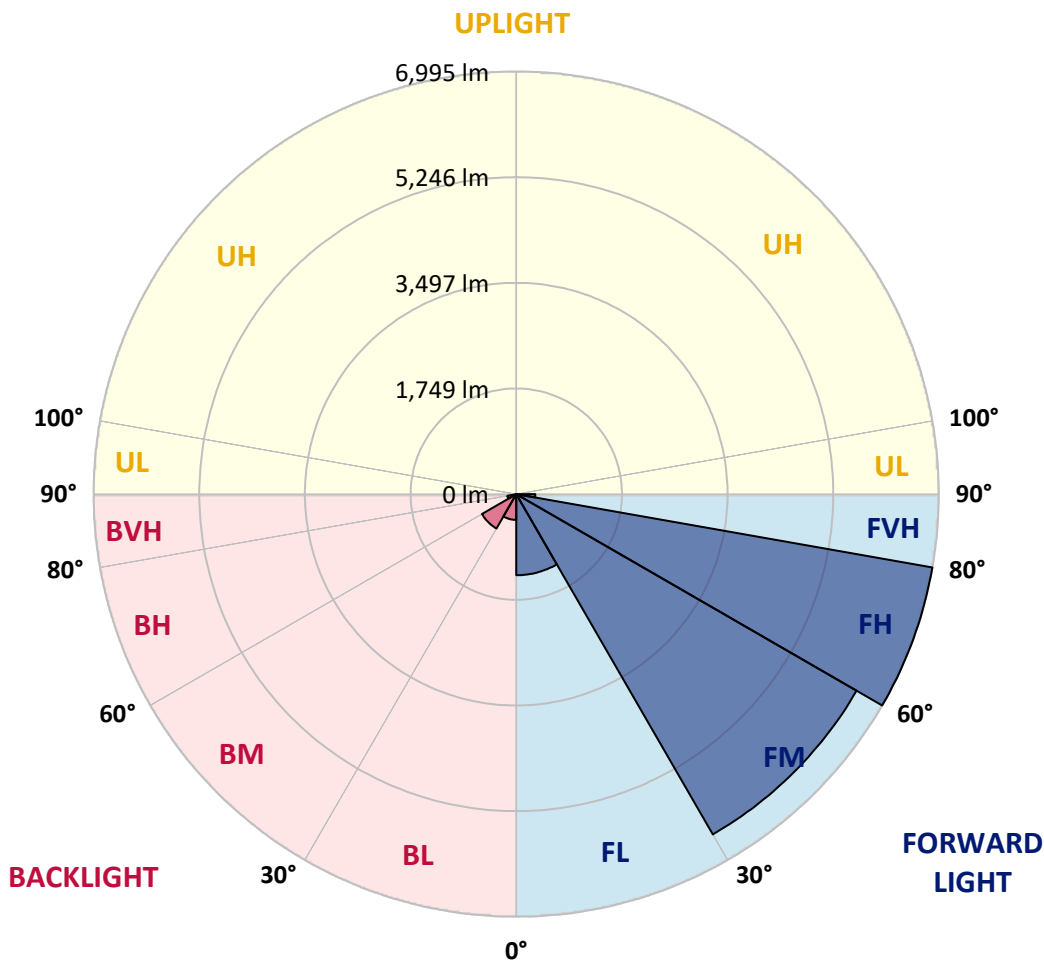
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.0	8.2			
FM (30°-60°)	6504.0	39.7			
FH (60°-80°)	6994.5	42.7			G3/7500
FVH (80°-90°)	316.0	1.9			G3/500
BL (0°-30°)	426.0	2.6	B1/500		
BM (30°-60°)	655.9	4.0	B1/1000		
BH (60°-80°)	148.5	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9
2.5°	3074.3	3104.4	3074.3	3061.4	3048.5	3050.6	3016.2	3022.7	2981.8	2928.1	2885.1
5°	3171.0	3211.9	3179.6	3164.6	3162.4	3121.6	3104.4	3063.5	3014.1	2930.3	2878.7
7.5°	3162.4	3153.8	3168.9	3156.0	3128.0	3128.0	3108.7	3050.6	3001.2	2906.6	2818.5
10°	3097.9	3123.7	3110.8	3095.8	3102.2	3104.4	3067.8	3027.0	3011.9	2917.4	2773.3
12.5°	3091.5	3048.5	3095.8	3097.9	3070.0	3067.8	3063.5	3052.8	3005.5	2919.5	2784.1
15°	3070.0	3052.8	3100.1	3102.2	3108.7	3102.2	3108.7	3100.1	3052.8	3003.3	2831.4
17.5°	3087.2	3067.8	3134.5	3166.7	3151.7	3181.8	3171.0	3132.3	3091.5	3033.4	2876.5
20°	3091.5	3119.4	3192.5	3205.4	3252.7	3203.3	3201.1	3160.3	3134.5	3072.1	2904.5
22.5°	3171.0	3183.9	3274.2	3302.2	3304.3	3297.9	3244.1	3196.8	3186.1	3108.7	2910.9
25°	3291.4	3336.6	3377.4	3394.6	3401.1	3371.0	3315.1	3254.9	3229.1	3179.6	2977.5
27.5°	3504.3	3476.3	3512.9	3538.7	3465.6	3476.3	3405.4	3353.8	3317.2	3274.2	3054.9
30°	3693.5	3667.7	3669.8	3665.5	3603.2	3545.1	3525.8	3435.5	3390.3	3407.5	3175.3
32.5°	3863.3	3807.4	3854.7	3833.2	3717.1	3699.9	3684.9	3570.9	3579.5	3659.1	3355.9
35°	4020.2	4000.9	4039.6	4000.9	3923.5	3919.2	3904.1	3805.2	3852.5	3966.5	3665.5
37.5°	4164.3	4170.7	4218.0	4198.7	4205.1	4209.4	4200.8	4095.5	4230.9	4486.7	4026.7
40°	4297.6	4289.0	4405.1	4465.2	4478.1	4525.4	4525.4	4499.6	4708.2	4996.3	4527.6
42.5°	4439.5	4460.9	4611.4	4712.5	4835.0	4875.9	4931.8	4944.7	5267.1	5596.1	5039.3
45°	4671.6	4635.1	4826.4	5065.1	5172.6	5316.6	5402.6	5475.7	5864.8	6316.3	5550.9
47.5°	4966.2	4893.1	5060.8	5406.9	5656.3	5774.5	5929.3	6026.0	6406.6	6873.1	6034.6
50°	5292.9	5217.7	5299.4	5776.7	6066.9	6281.9	6479.7	6602.2	7062.3	7496.5	6387.2
52.5°	5662.7	5593.9	5606.8	6161.5	6589.3	6746.2	7006.4	7189.1	7647.0	7872.8	6511.9
55°	6056.1	6038.9	5998.1	6537.7	7047.2	7399.8	7556.7	7776.0	8246.8	8077.0	6647.4
57.5°	6451.7	6398.0	6456.0	7036.5	7782.5	7993.2	8210.3	8341.4	8580.1	8255.4	6595.8
60°	6823.6	6827.9	6909.6	7578.2	8408.1	8706.9	8902.5	8823.0	8921.9	8332.8	6477.5
62.5°	7137.5	7128.9	7335.3	8186.6	9235.8	9437.9	9584.1	9229.3	9081.0	8408.1	6271.1
65°	7419.1	7515.9	7840.5	8911.1	10014.0	10246.2	10158.1	9614.2	9235.8	8186.6	5690.7
67.5°	7632.0	7776.0	8339.3	9592.7	10727.8	10891.2	10768.6	9906.5	9053.0	7318.1	4635.1
70°	7756.7	7902.9	8696.2	10160.2	11297.5	11415.7	11127.7	9680.8	7986.7	5299.4	2891.6
71°	7718.0	7896.4	8765.0	10220.4	11432.9	11521.1	11073.9	9263.7	7182.7	4437.3	2109.0
72.5°	7367.6	7535.2	8479.0	10177.4	11269.5	11215.8	10654.7	8261.9	5654.1	2829.2	1090.0
75°	5413.3	5593.9	7277.3	8803.7	10059.2	9689.4	8623.1	5798.2	2949.6	866.4	318.2
77.5°	2695.9	2726.0	4516.8	6391.5	7378.3	7010.7	5778.8	3233.4	1102.9	255.8	159.1
80°	1242.6	1251.2	1694.1	3310.8	4460.9	4198.7	3237.7	1595.2	498.8	135.4	124.7
82.5°	847.0	859.9	1021.2	1371.6	1937.0	1633.9	1311.4	1021.2	285.9	81.7	122.5
85°	154.8	141.9	571.9	726.7	748.1	507.4	453.6	883.6	107.5	47.3	107.5
87.5°	0.0	2.1	79.5	296.7	266.6	118.2	154.8	215.0	10.7	15.0	19.3
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°	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9	2852.9
2.5°	2848.6	2824.9	2745.4	2657.2	2577.7	2515.3	2435.8	2399.2	2341.2	2308.9	2306.8
5°	2807.7	2743.2	2605.6	2457.3	2291.7	2154.2	2001.5	1915.5	1816.6	1786.5	1780.1
7.5°	2738.9	2646.5	2444.4	2235.8	1982.2	1739.2	1552.2	1352.3	1229.7	1178.1	1158.8
10°	2695.9	2584.1	2308.9	1997.2	1642.5	1300.7	1038.4	825.5	713.8	660.0	647.1
12.5°	2695.9	2575.5	2199.3	1769.3	1298.5	890.0	642.8	520.3	483.7	470.8	470.8
15°	2689.5	2558.3	2094.0	1535.0	961.0	597.7	479.4	453.6	449.3	447.2	445.0
17.5°	2721.7	2528.2	1986.5	1283.5	679.4	470.8	440.7	436.4	432.1	432.1	427.8
20°	2745.4	2511.0	1857.5	1016.9	507.4	436.4	423.5	417.1	414.9	412.8	417.1
22.5°	2726.0	2485.2	1698.4	761.0	442.9	414.9	406.3	399.9	395.6	395.6	397.7
25°	2762.6	2461.6	1539.3	574.0	414.9	395.6	387.0	382.7	380.5	378.4	374.1
27.5°	2812.0	2472.3	1350.1	462.2	391.3	376.2	367.6	363.3	361.2	356.9	361.2
30°	2872.2	2470.2	1141.6	404.2	369.8	354.7	346.1	344.0	339.7	337.5	339.7
32.5°	2975.4	2526.1	926.6	374.1	346.1	333.2	324.6	322.5	320.3	318.2	316.0
35°	3196.8	2594.9	724.5	350.4	324.6	309.6	303.1	298.8	296.7	294.5	292.4
37.5°	3469.9	2747.5	552.5	328.9	303.1	288.1	281.6	279.5	270.9	268.7	266.6
40°	3811.7	2910.9	425.7	305.3	283.8	268.7	262.3	255.8	245.1	240.8	236.5
42.5°	4237.4	3070.0	350.4	283.8	262.3	251.5	240.8	230.0	221.4	212.8	208.5
45°	4663.0	3254.9	307.4	264.4	245.1	232.2	223.6	208.5	193.5	180.6	178.4
47.5°	5017.8	3321.5	281.6	242.9	227.9	217.1	204.2	184.9	163.4	150.5	148.3
50°	5282.2	3282.8	255.8	221.4	208.5	197.8	180.6	156.9	135.4	122.5	118.2
52.5°	5333.8	3113.0	232.2	204.2	189.2	176.3	156.9	131.1	107.5	94.6	92.4
55°	5297.2	2831.4	212.8	189.2	172.0	152.6	131.1	105.3	83.8	70.9	68.8
57.5°	5222.0	2498.1	191.3	169.8	150.5	131.1	107.5	86.0	62.3	49.4	49.4
60°	4966.2	2044.5	169.8	148.3	129.0	111.8	88.1	62.3	43.0	32.2	30.1
62.5°	4609.3	1571.5	148.3	126.8	111.8	92.4	68.8	45.1	25.8	17.2	17.2
65°	3957.9	1100.7	124.7	105.3	92.4	75.2	51.6	27.9	15.0	6.4	6.4
67.5°	3007.6	681.5	103.2	88.1	79.5	60.2	36.5	17.2	6.4	2.1	0.0
70°	1726.3	354.7	81.7	70.9	62.3	45.1	25.8	8.6	4.3	0.0	0.0
71°	1206.1	262.3	73.1	62.3	55.9	40.8	21.5	6.4	2.1	0.0	0.0
72.5°	604.1	174.1	62.3	51.6	45.1	32.2	17.2	6.4	2.1	0.0	0.0
75°	215.0	111.8	43.0	34.4	32.2	23.6	10.7	4.3	2.1	0.0	0.0
77.5°	148.3	90.3	30.1	21.5	21.5	15.0	6.4	2.1	2.1	0.0	0.0
80°	135.4	49.4	19.3	12.9	10.7	8.6	4.3	2.1	0.0	0.0	0.0
82.5°	135.4	36.5	10.7	8.6	6.4	4.3	2.1	0.0	0.0	0.0	0.0
85°	94.6	19.3	6.4	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	15.0	6.4	4.3	2.1	2.1	0.0	0.0	0.0	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)