

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: P484138

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

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484138  
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-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

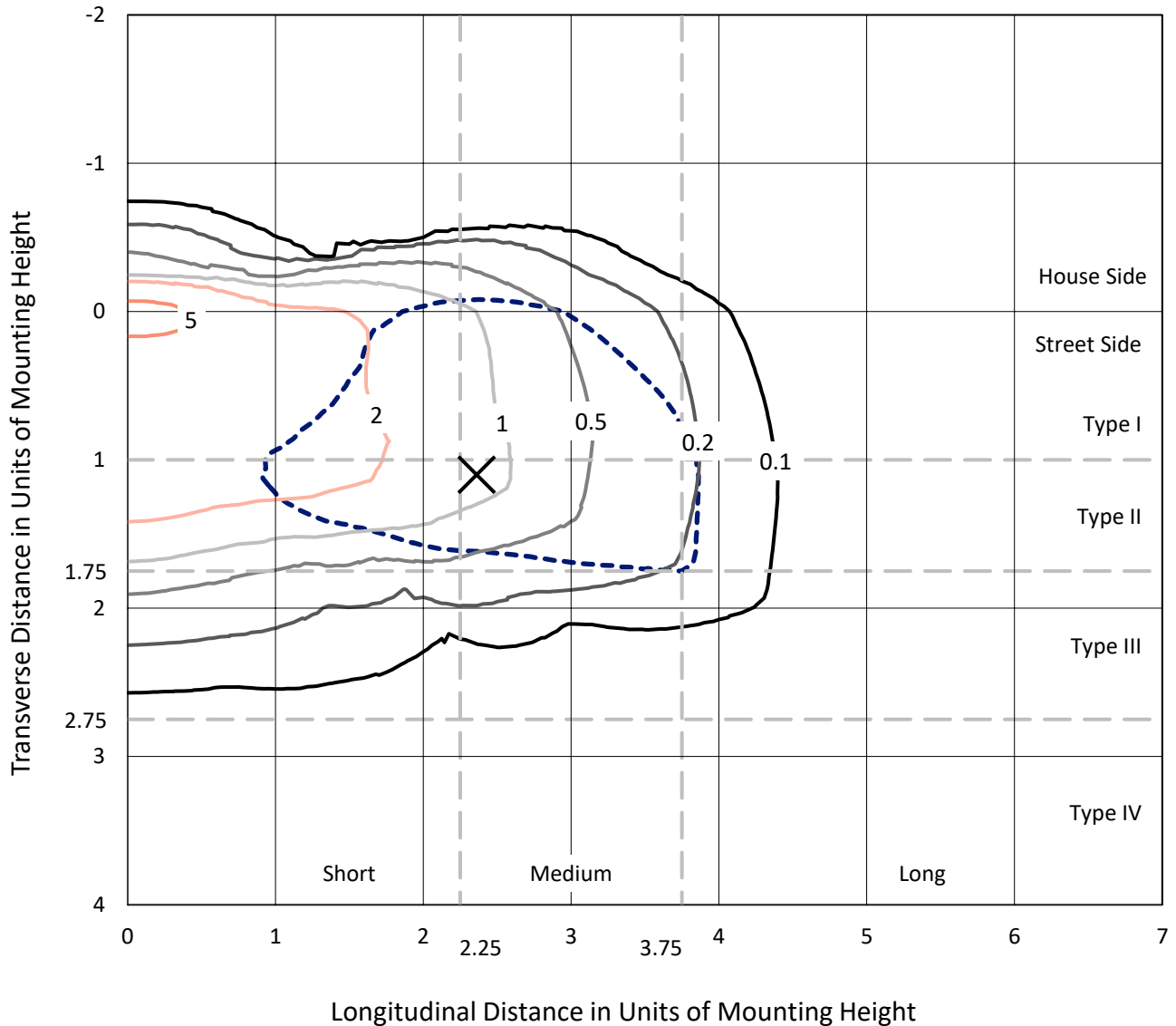
Lumens per Lamp: N/A  
Luminaire Lumens: 16329.6 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

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

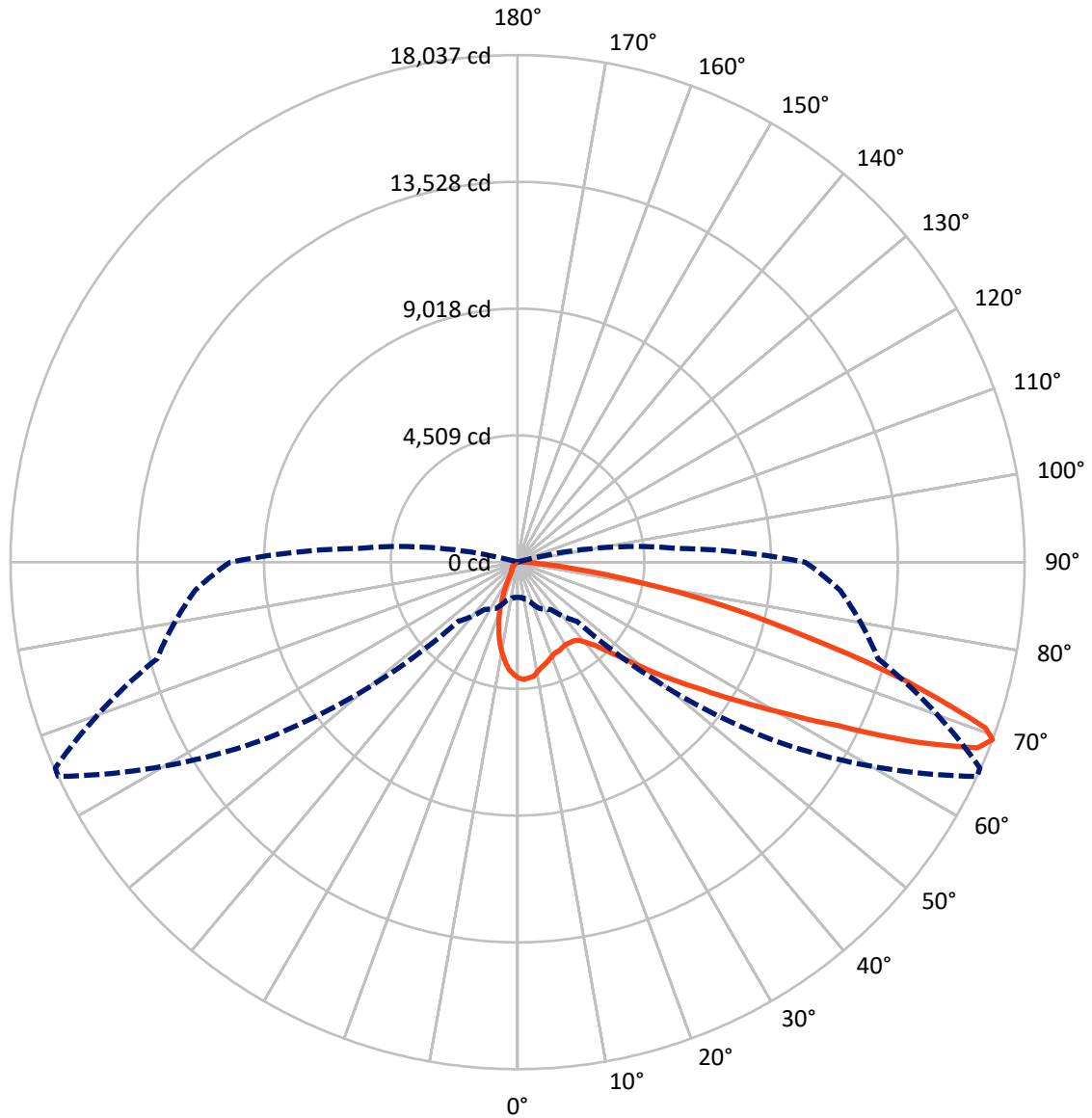
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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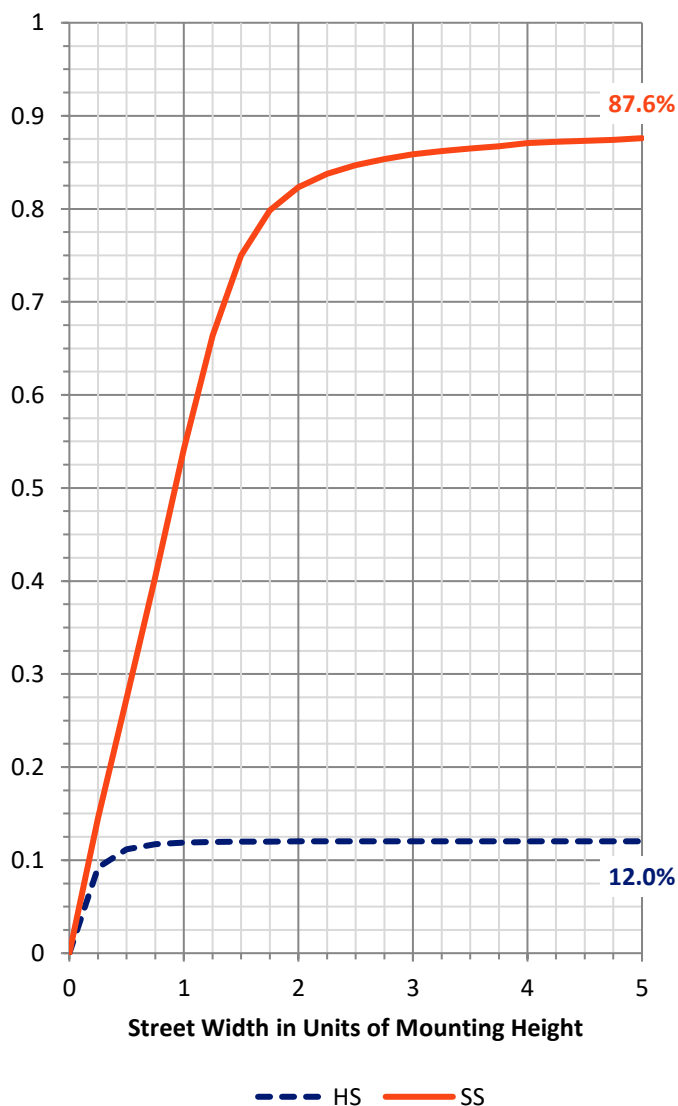
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1980.9	0.0	1980.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	14348.7	0.0	14348.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	16329.6	0.0	16329.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.9	2.1
10°-20°	737.2	4.5
20°-30°	1026.3	6.3
30°-40°	1454.3	8.9
40°-50°	2292.0	14.0
50°-60°	3719.1	22.8
60°-70°	4153.5	25.4
70°-80°	2338.9	14.3
80°-90°	271.4	1.7
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°	16329.6	100.0
0°-180°	16329.6	100.0

**Coefficient of Utilization**



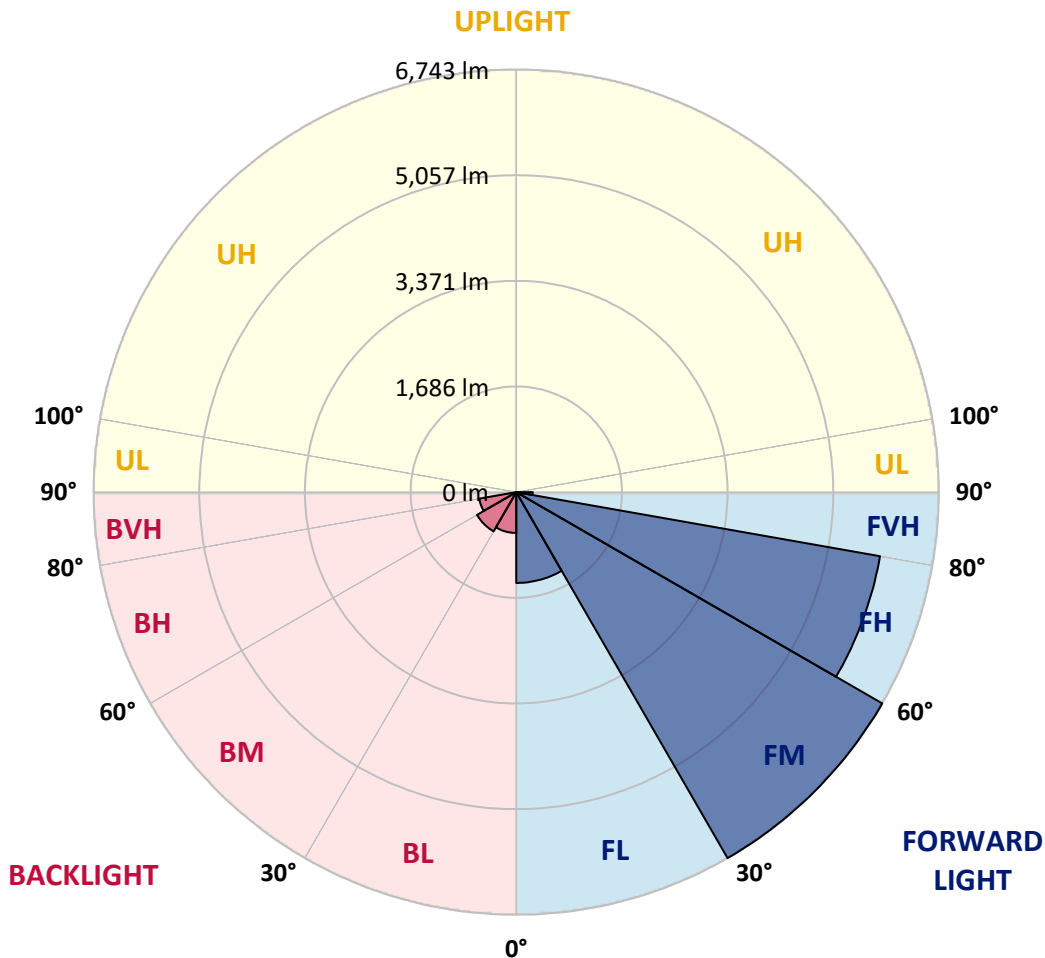
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1449.1	8.9			
FM (30°-60°)	6742.6	41.3			
FH (60°-80°)	5893.1	36.1			G3/7500
FVH (80°-90°)	263.9	1.6			G3/500
BL (0°-30°)	651.3	4.0	B2/1000		
BM (30°-60°)	722.8	4.4	B1/1000		
BH (60°-80°)	599.3	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1
2.5°	3965.1	3995.9	4004.7	4035.6	4051.0	4117.1	4154.5	4176.6	4165.5	4189.8	4192.0
5°	3683.1	3665.5	3711.8	3744.8	3815.3	3929.8	4046.6	4136.9	4178.8	4218.4	4211.8
7.5°	3381.3	3372.5	3418.8	3493.7	3557.6	3696.3	3883.6	4106.1	4097.2	4194.2	4222.8
10°	3174.3	3183.1	3198.5	3273.4	3368.1	3509.1	3742.6	3949.7	3995.9	4200.8	4258.1
12.5°	2984.8	3000.2	3028.9	3106.0	3216.1	3361.5	3588.4	3830.7	3901.2	4163.3	4277.9
15°	2923.1	2887.9	2945.2	3002.4	3117.0	3247.0	3438.6	3740.4	3771.2	4119.3	4310.9
17.5°	2872.5	2850.5	2876.9	2923.1	3044.3	3150.0	3330.7	3643.5	3700.7	4101.7	4306.5
20°	2887.9	2868.1	2879.1	2914.3	2969.4	3068.5	3235.9	3550.9	3612.6	4020.1	4299.9
22.5°	2932.0	2947.4	2927.6	2936.4	2954.0	3004.6	3185.3	3484.9	3537.7	4004.7	4337.4
25°	3130.2	3103.8	3077.3	3066.3	2962.8	2984.8	3169.9	3480.5	3517.9	3949.7	4306.5
27.5°	3337.3	3315.2	3304.2	3240.4	3099.4	3033.3	3172.1	3418.8	3469.4	3927.6	4269.1
30°	3588.4	3617.0	3573.0	3495.9	3299.8	3136.8	3196.3	3387.9	3458.4	3843.9	4244.8
32.5°	3852.7	3868.2	3890.2	3832.9	3579.6	3293.2	3269.0	3416.6	3421.0	3843.9	4189.8
35°	4152.3	4130.3	4187.6	4192.0	3969.5	3570.8	3407.8	3436.4	3482.7	3826.3	4169.9
37.5°	4410.0	4447.5	4513.6	4619.3	4390.2	3962.9	3623.6	3528.9	3548.7	3907.8	4185.4
40°	4692.0	4729.5	4879.3	4985.0	4855.0	4403.4	3951.9	3744.8	3760.2	4029.0	4264.7
42.5°	5002.6	5075.3	5253.7	5438.8	5403.5	4963.0	4374.8	4062.0	4055.4	4330.7	4427.7
45°	5423.3	5520.3	5714.1	5927.8	5958.6	5604.0	4938.7	4535.6	4557.6	4725.1	4764.7
47.5°	6009.3	6004.9	6194.3	6432.2	6610.7	6269.2	5612.8	5172.2	5170.0	5348.5	5264.7
50°	6575.4	6577.6	6628.3	6903.6	7366.2	7192.2	6447.7	6018.1	5993.9	6082.0	5947.6
52.5°	6837.6	6806.7	6769.3	7101.9	7947.8	8355.3	7505.0	6976.3	6956.5	6903.6	6868.4
55°	6562.2	6573.2	6571.0	6916.9	8254.0	9582.3	8862.0	8031.5	7998.4	7833.2	7881.7
57.5°	5678.9	5643.6	5720.7	6260.4	7903.7	10419.3	10802.6	9362.0	9276.1	8727.6	8617.4
60°	4227.2	4238.2	4302.1	4938.7	7033.6	10595.6	12659.6	10923.8	10553.7	9357.6	9205.6
62.5°	2951.8	2929.8	2954.0	3310.8	5029.0	9890.7	13915.2	12822.6	12465.8	10073.5	9985.4
65°	2112.5	2083.9	2180.8	2398.9	3020.1	7562.3	14093.7	15351.5	15032.1	11216.8	11005.3
67.5°	1519.9	1515.5	1627.9	2024.4	2145.5	4355.0	12772.0	17642.4	17448.6	12573.7	11626.5
69°	1257.8	1260.0	1368.0	1812.9	2048.6	2973.8	10989.9	18036.7	18001.5	13274.2	11509.7
70°	1097.0	1105.8	1231.4	1687.4	2009.0	2445.1	9474.3	17649.0	17613.8	13410.8	11124.3
72.5°	676.3	682.9	848.1	1352.5	1909.8	1995.8	5665.7	14439.5	14560.7	12785.2	9584.5
75°	323.8	326.0	445.0	978.1	1841.6	1892.2	3035.5	10655.0	10910.6	10322.4	7489.6
77.5°	171.8	171.8	213.7	519.9	1491.3	1779.9	1801.9	7516.0	7727.5	6527.0	4258.1
80°	85.9	88.1	130.0	270.9	925.2	1744.6	1407.6	4482.7	4597.3	2663.2	1326.1
82.5°	33.0	35.2	61.7	163.0	480.2	1473.7	1235.8	2205.0	2176.4	623.4	323.8
85°	4.4	4.4	22.0	96.9	204.9	649.8	1019.9	920.8	889.9	136.6	156.4
87.5°	0.0	0.0	4.4	28.6	61.7	189.4	394.3	253.3	282.0	37.4	77.1
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°	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1	4117.1
2.5°	4181.0	4134.7	4064.2	3995.9	3923.2	3835.1	3738.2	3702.9	3641.3	3636.9	3672.1
5°	4176.6	4101.7	3978.3	3832.9	3625.8	3469.4	3299.8	3176.5	3081.7	3020.1	3035.5
7.5°	4198.6	4108.3	3894.6	3581.8	3315.2	3004.6	2742.5	2561.9	2396.7	2315.2	2306.4
10°	4163.3	4042.2	3729.4	3291.0	2898.9	2465.0	2081.7	1839.4	1592.6	1502.3	1506.7
12.5°	4183.2	4013.5	3550.9	2991.4	2451.7	1887.8	1429.6	1099.2	867.9	793.0	784.2
15°	4196.4	3951.9	3379.1	2632.4	1956.1	1286.4	828.3	623.4	550.7	537.5	535.3
17.5°	4145.7	3877.0	3136.8	2277.7	1449.5	782.0	550.7	508.9	495.6	486.8	482.4
20°	4143.5	3832.9	2927.6	1914.3	967.0	533.1	475.8	460.4	440.6	434.0	434.0
22.5°	4106.1	3740.4	2676.4	1515.5	616.8	458.2	427.3	403.1	381.1	372.3	370.1
25°	4095.0	3632.5	2440.7	1138.9	469.2	409.7	378.9	343.6	317.2	304.0	297.4
27.5°	4064.2	3539.9	2202.8	801.8	409.7	365.7	326.0	288.6	257.7	237.9	235.7
30°	3954.1	3443.0	1938.5	555.1	372.3	323.8	279.8	235.7	204.9	191.6	187.2
32.5°	3907.8	3352.7	1649.9	427.3	339.2	286.4	235.7	196.1	171.8	158.6	156.4
35°	3852.7	3220.5	1370.2	372.3	308.4	248.9	198.3	165.2	145.4	134.4	134.4
37.5°	3859.3	3114.8	1108.0	337.0	275.4	213.7	169.6	141.0	123.4	112.3	112.3
40°	3839.5	3031.1	861.3	306.2	244.5	182.8	143.2	119.0	103.5	92.5	90.3
42.5°	3929.8	3009.1	649.8	279.8	213.7	156.4	123.4	101.3	85.9	72.7	72.7
45°	4081.8	3044.3	506.6	255.5	182.8	134.4	105.7	83.7	68.3	59.5	57.3
47.5°	4487.1	3183.1	396.5	235.7	156.4	116.7	88.1	68.3	55.1	46.3	44.1
50°	5075.3	3493.7	337.0	207.1	132.2	99.1	72.7	52.9	44.1	35.2	33.0
52.5°	5912.4	4015.7	306.2	182.8	110.1	81.5	57.3	41.9	33.0	26.4	24.2
55°	6824.3	4667.8	277.6	154.2	92.5	66.1	46.3	33.0	24.2	17.6	15.4
57.5°	7535.9	5231.7	253.3	127.8	74.9	52.9	35.2	24.2	17.6	11.0	8.8
60°	8313.4	5628.2	222.5	101.3	61.7	39.7	26.4	17.6	13.2	6.6	6.6
62.5°	9115.3	6093.0	182.8	79.3	48.5	30.8	19.8	13.2	8.8	2.2	2.2
65°	10229.9	6456.5	141.0	61.7	37.4	22.0	15.4	11.0	4.4	0.0	0.0
67.5°	10544.9	6278.0	103.5	48.5	26.4	15.4	11.0	6.6	2.2	0.0	0.0
69°	10229.9	5654.6	90.3	41.9	22.0	13.2	8.8	4.4	2.2	0.0	0.0
70°	9655.0	5170.0	79.3	35.2	19.8	13.2	6.6	4.4	2.2	0.0	0.0
72.5°	8075.5	3965.1	61.7	26.4	15.4	11.0	6.6	4.4	0.0	0.0	0.0
75°	5923.4	2449.5	46.3	19.8	13.2	8.8	6.6	4.4	0.0	0.0	0.0
77.5°	3174.3	894.3	33.0	13.2	8.8	6.6	6.6	4.4	0.0	0.0	0.0
80°	870.1	264.3	24.2	8.8	6.6	4.4	4.4	2.2	0.0	0.0	0.0
82.5°	237.9	68.3	15.4	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0
85°	127.8	26.4	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
87.5°	66.1	8.8	6.6	4.4	4.4	2.2	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)