

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: P484944

Luminaire Tested: **IFLD-S-SA3C-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484944  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

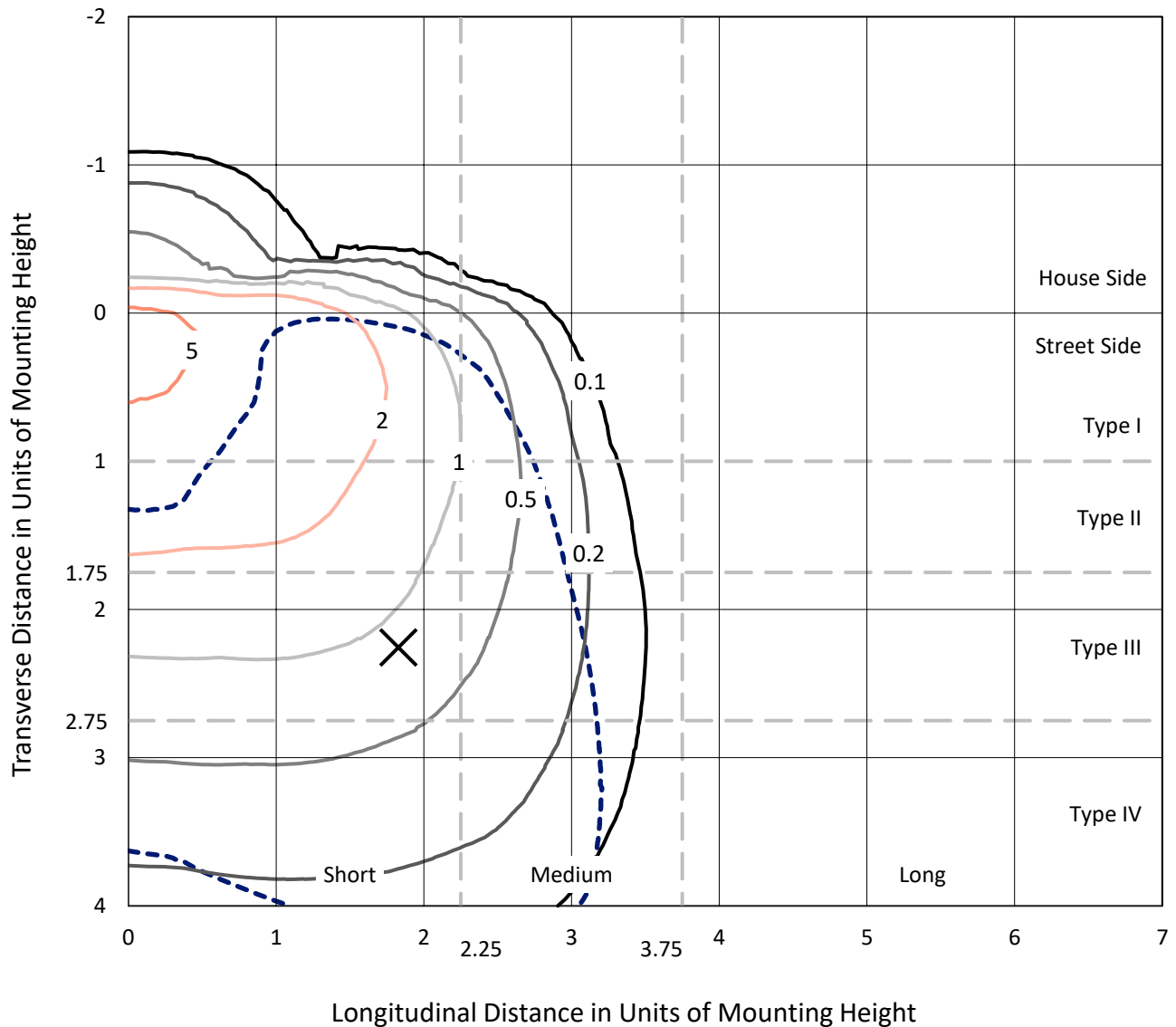
Lumens per Lamp: N/A  
Luminaire Lumens: 13904.5 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8  
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

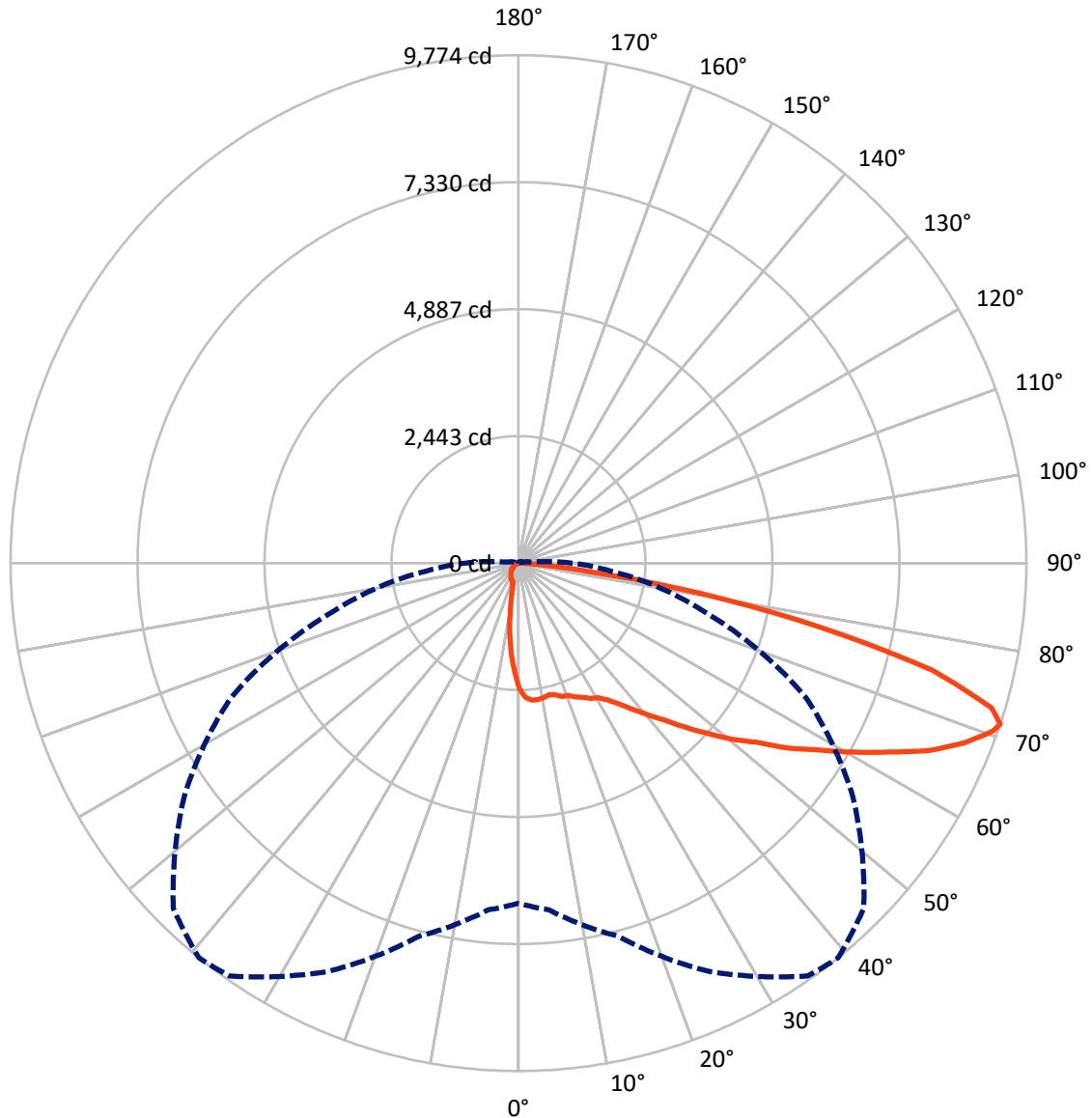
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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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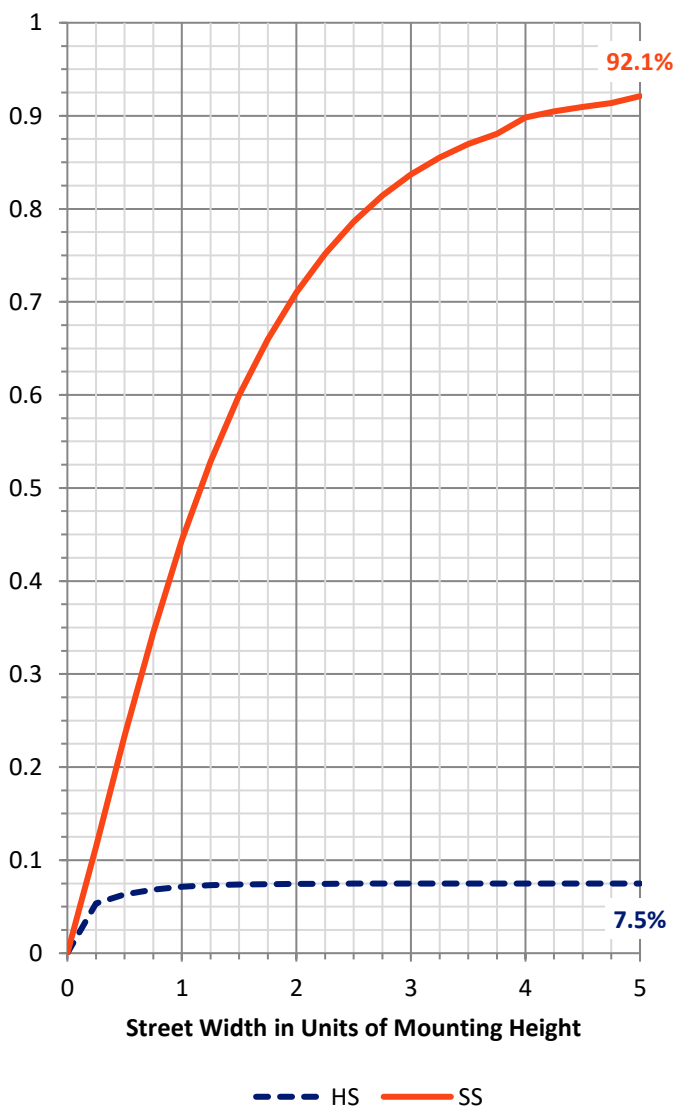
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1046.8	0.0	1046.8
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	12857.8	0.0	12857.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	13904.5	0.0	13904.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.3	1.5
10°-20°	498.0	3.6
20°-30°	799.5	5.7
30°-40°	1223.9	8.8
40°-50°	1964.5	14.1
50°-60°	2885.6	20.8
60°-70°	3634.3	26.1
70°-80°	2425.4	17.4
80°-90°	271.0	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°	13904.5	100.0
0°-180°	13904.5	100.0

**Coefficient of Utilization**



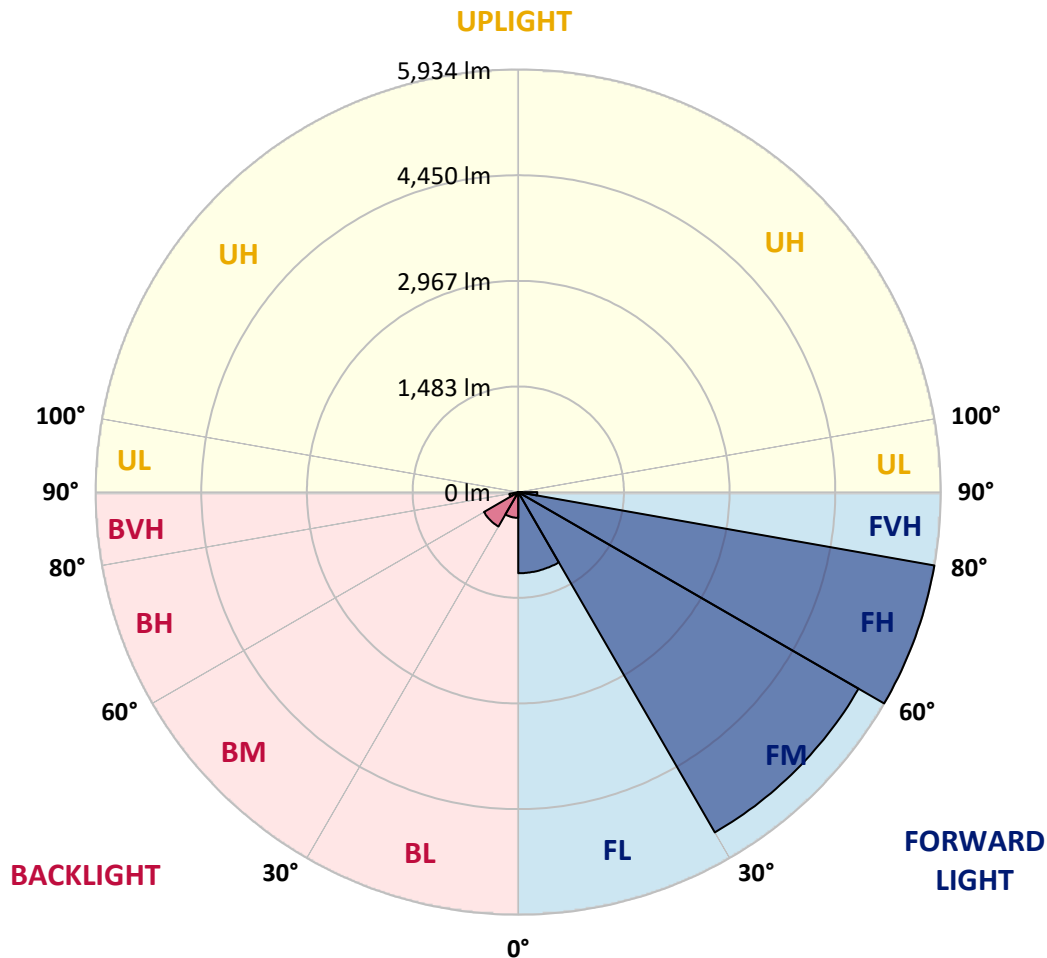
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.5	8.2			
FM (30°-60°)	5517.5	39.7			
FH (60°-80°)	5933.7	42.7			G3/7500
FVH (80°-90°)	268.1	1.9			G3/500
BL (0°-30°)	361.4	2.6	B1/500		
BM (30°-60°)	556.4	4.0	B1/1000		
BH (60°-80°)	126.0	0.9	B1/500		G1/500
BVH (80°-90°)	3.0	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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2608.0	2633.6	2608.0	2597.1	2586.1	2588.0	2558.8	2564.3	2529.6	2484.0	2447.5
5°	2690.1	2724.7	2697.4	2684.6	2682.8	2648.1	2633.6	2598.9	2557.0	2485.8	2442.1
7.5°	2682.8	2675.5	2688.3	2677.3	2653.6	2653.6	2637.2	2588.0	2546.0	2465.8	2391.0
10°	2628.1	2650.0	2639.0	2626.3	2631.7	2633.6	2602.6	2567.9	2555.1	2474.9	2352.7
12.5°	2622.6	2586.1	2626.3	2628.1	2604.4	2602.6	2598.9	2589.8	2549.7	2476.7	2361.8
15°	2604.4	2589.8	2629.9	2631.7	2637.2	2631.7	2637.2	2629.9	2589.8	2547.8	2401.9
17.5°	2619.0	2602.6	2659.1	2686.4	2673.7	2699.2	2690.1	2657.3	2622.6	2573.4	2440.2
20°	2622.6	2646.3	2708.3	2719.3	2759.4	2717.5	2715.6	2681.0	2659.1	2606.2	2463.9
22.5°	2690.1	2701.0	2777.6	2801.3	2803.2	2797.7	2752.1	2712.0	2702.9	2637.2	2469.4
25°	2792.2	2830.5	2865.2	2879.8	2885.2	2859.7	2812.3	2761.2	2739.3	2697.4	2526.0
27.5°	2972.8	2949.1	2980.1	3002.0	2940.0	2949.1	2888.9	2845.1	2814.1	2777.6	2591.6
30°	3133.3	3111.4	3113.2	3109.6	3056.7	3007.4	2991.0	2914.4	2876.1	2890.7	2693.7
32.5°	3277.4	3229.9	3270.1	3251.8	3153.3	3138.8	3126.0	3029.3	3036.6	3104.1	2846.9
35°	3410.5	3394.1	3426.9	3394.1	3328.4	3324.8	3312.0	3228.1	3268.2	3364.9	3109.6
37.5°	3532.7	3538.2	3578.3	3561.9	3567.3	3571.0	3563.7	3474.3	3589.2	3806.3	3416.0
40°	3645.8	3638.5	3737.0	3788.0	3799.0	3839.1	3839.1	3817.2	3994.1	4238.5	3840.9
42.5°	3766.1	3784.4	3912.0	3997.8	4101.7	4136.4	4183.8	4194.7	4468.3	4747.3	4275.0
45°	3963.1	3932.1	4094.4	4296.9	4388.0	4510.2	4583.2	4645.2	4975.3	5358.3	4709.0
47.5°	4213.0	4151.0	4293.2	4586.8	4798.4	4898.7	5030.0	5112.1	5434.9	5830.7	5119.4
50°	4490.2	4426.3	4495.7	4900.5	5146.7	5329.1	5496.9	5600.9	5991.2	6359.6	5418.5
52.5°	4803.9	4745.5	4756.5	5227.0	5589.9	5723.1	5943.7	6098.8	6487.2	6678.7	5524.3
55°	5137.6	5123.0	5088.4	5546.2	5978.4	6277.5	6410.6	6596.7	6996.1	6852.0	5639.2
57.5°	5473.2	5427.6	5476.9	5969.3	6602.1	6780.9	6965.1	7076.3	7278.8	7003.4	5595.4
60°	5788.7	5792.4	5861.7	6428.9	7132.9	7386.4	7552.3	7484.9	7568.7	7069.0	5495.1
62.5°	6055.0	6047.7	6222.8	6945.0	7835.0	8006.5	8130.5	7829.6	7703.7	7132.9	5320.0
65°	6293.9	6376.0	6651.4	7559.6	8495.2	8692.2	8617.4	8156.0	7835.0	6945.0	4827.6
67.5°	6474.5	6596.7	7074.5	8137.8	9100.7	9239.3	9135.4	8404.0	7680.0	6208.2	3932.1
70°	6580.3	6704.3	7377.2	8619.3	9584.0	9684.3	9440.0	8212.5	6775.4	4495.7	2453.0
71°	6547.4	6698.8	7435.6	8670.3	9698.9	9773.7	9394.4	7858.7	6093.3	3764.3	1789.1
72.5°	6250.1	6392.4	7193.0	8633.8	9560.3	9514.7	9038.7	7008.8	4796.6	2400.1	924.7
75°	4592.3	4745.5	6173.5	7468.4	8533.5	8219.8	7315.2	4918.8	2502.2	735.0	269.9
77.5°	2287.0	2312.6	3831.8	5422.1	6259.3	5947.4	4902.4	2743.0	935.6	217.0	135.0
80°	1054.2	1061.4	1437.2	2808.6	3784.4	3561.9	2746.6	1353.3	423.1	114.9	105.8
82.5°	718.6	729.5	866.3	1163.6	1643.2	1386.1	1112.5	866.3	242.6	69.3	104.0
85°	131.3	120.4	485.1	616.4	634.7	430.4	384.8	749.6	91.2	40.1	91.2
87.5°	0.0	1.8	67.5	251.7	226.2	100.3	131.3	182.4	9.1	12.8	16.4
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°	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2	2420.2
2.5°	2416.5	2396.5	2329.0	2254.2	2186.7	2133.8	2066.4	2035.4	1986.1	1958.8	1956.9
5°	2381.9	2327.2	2210.4	2084.6	1944.2	1827.4	1698.0	1625.0	1541.1	1515.6	1510.1
7.5°	2323.5	2245.1	2073.7	1896.7	1681.5	1475.4	1316.8	1147.2	1043.2	999.4	983.0
10°	2287.0	2192.2	1958.8	1694.3	1393.4	1103.4	880.9	700.3	605.5	559.9	549.0
12.5°	2287.0	2184.9	1865.7	1501.0	1101.6	755.1	545.3	441.4	410.4	399.4	399.4
15°	2281.6	2170.3	1776.4	1302.2	815.2	507.0	406.7	384.8	381.2	379.3	377.5
17.5°	2308.9	2144.8	1685.2	1088.8	576.3	399.4	373.9	370.2	366.6	366.6	362.9
20°	2329.0	2130.2	1575.8	862.7	430.4	370.2	359.3	353.8	352.0	350.2	353.8
22.5°	2312.6	2108.3	1440.8	645.6	375.7	352.0	344.7	339.2	335.6	335.6	337.4
25°	2343.6	2088.2	1305.8	487.0	352.0	335.6	328.3	324.6	322.8	321.0	317.3
27.5°	2385.5	2097.4	1145.3	392.1	331.9	319.2	311.9	308.2	306.4	302.7	306.4
30°	2436.6	2095.5	968.4	342.9	313.7	300.9	293.6	291.8	288.2	286.3	288.2
32.5°	2524.1	2143.0	786.1	317.3	293.6	282.7	275.4	273.6	271.7	269.9	268.1
35°	2712.0	2201.3	614.6	297.3	275.4	262.6	257.2	253.5	251.7	249.9	248.0
37.5°	2943.6	2330.8	468.7	279.0	257.2	244.4	238.9	237.1	229.8	228.0	226.2
40°	3233.6	2469.4	361.1	259.0	240.7	228.0	222.5	217.0	207.9	204.3	200.6
42.5°	3594.7	2604.4	297.3	240.7	222.5	213.4	204.3	195.1	187.9	180.6	176.9
45°	3955.8	2761.2	260.8	224.3	207.9	197.0	189.7	176.9	164.1	153.2	151.4
47.5°	4256.7	2817.8	238.9	206.1	193.3	184.2	173.3	156.8	138.6	127.7	125.8
50°	4481.1	2784.9	217.0	187.9	176.9	167.8	153.2	133.1	114.9	104.0	100.3
52.5°	4524.8	2640.9	197.0	173.3	160.5	149.6	133.1	111.3	91.2	80.2	78.4
55°	4493.8	2401.9	180.6	160.5	145.9	129.5	111.3	89.4	71.1	60.2	58.4
57.5°	4430.0	2119.2	162.3	144.1	127.7	111.3	91.2	73.0	52.9	41.9	41.9
60°	4213.0	1734.4	144.1	125.8	109.4	94.8	74.8	52.9	36.5	27.4	25.5
62.5°	3910.2	1333.2	125.8	107.6	94.8	78.4	58.4	38.3	21.9	14.6	14.6
65°	3357.6	933.8	105.8	89.4	78.4	63.8	43.8	23.7	12.8	5.5	5.5
67.5°	2551.5	578.1	87.5	74.8	67.5	51.1	31.0	14.6	5.5	1.8	0.0
70°	1464.5	300.9	69.3	60.2	52.9	38.3	21.9	7.3	3.6	0.0	0.0
71°	1023.1	222.5	62.0	52.9	47.4	34.7	18.2	5.5	1.8	0.0	0.0
72.5°	512.5	147.7	52.9	43.8	38.3	27.4	14.6	5.5	1.8	0.0	0.0
75°	182.4	94.8	36.5	29.2	27.4	20.1	9.1	3.6	1.8	0.0	0.0
77.5°	125.8	76.6	25.5	18.2	18.2	12.8	5.5	1.8	1.8	0.0	0.0
80°	114.9	41.9	16.4	10.9	9.1	7.3	3.6	1.8	0.0	0.0	0.0
82.5°	114.9	31.0	9.1	7.3	5.5	3.6	1.8	0.0	0.0	0.0	0.0
85°	80.2	16.4	5.5	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	12.8	5.5	3.6	1.8	1.8	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)