

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: P483965

Luminaire Tested: **IFLD-S-SA2D-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483965  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

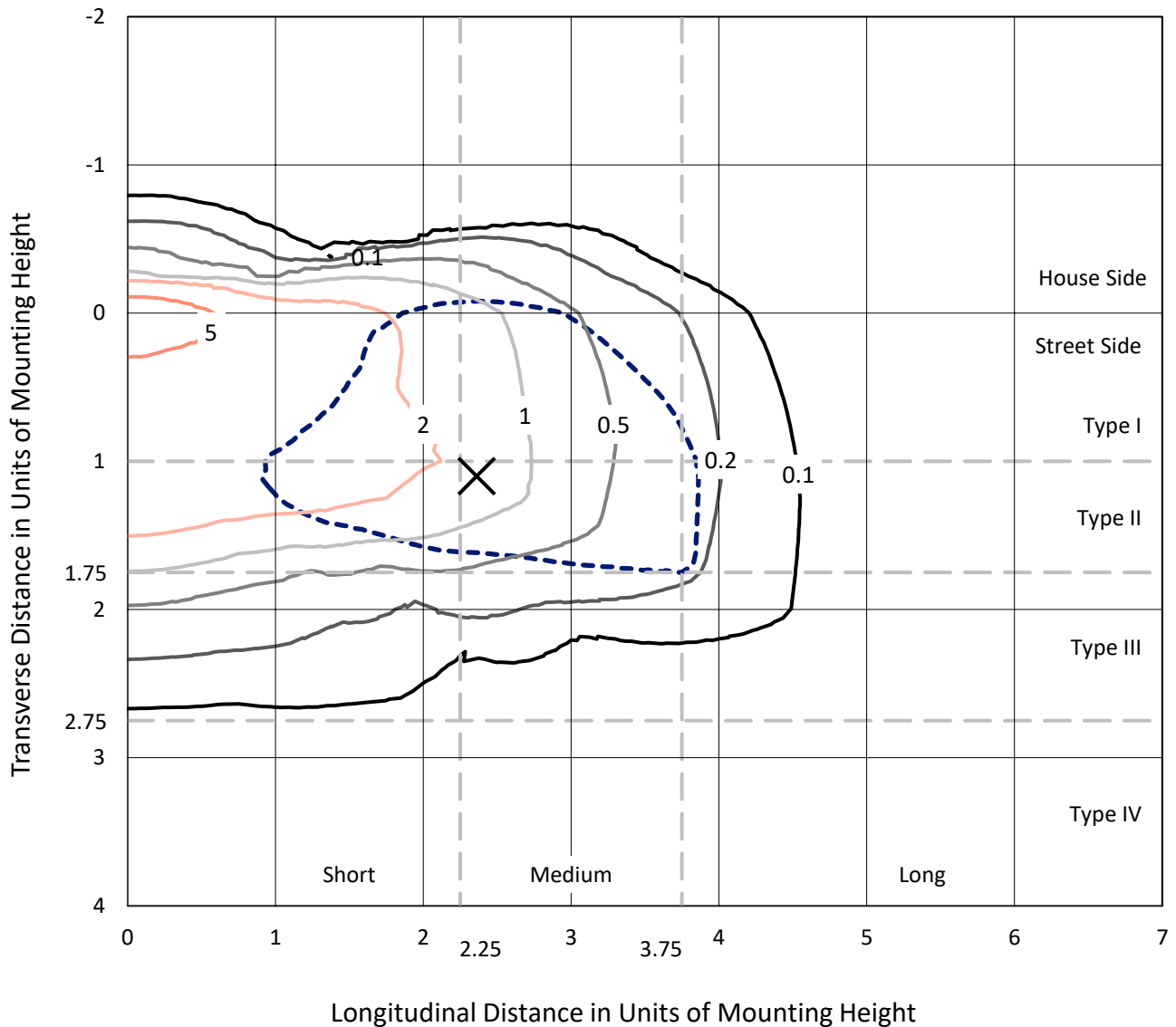
Lumens per Lamp: N/A  
Luminaire Lumens: 12695.8 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9  
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

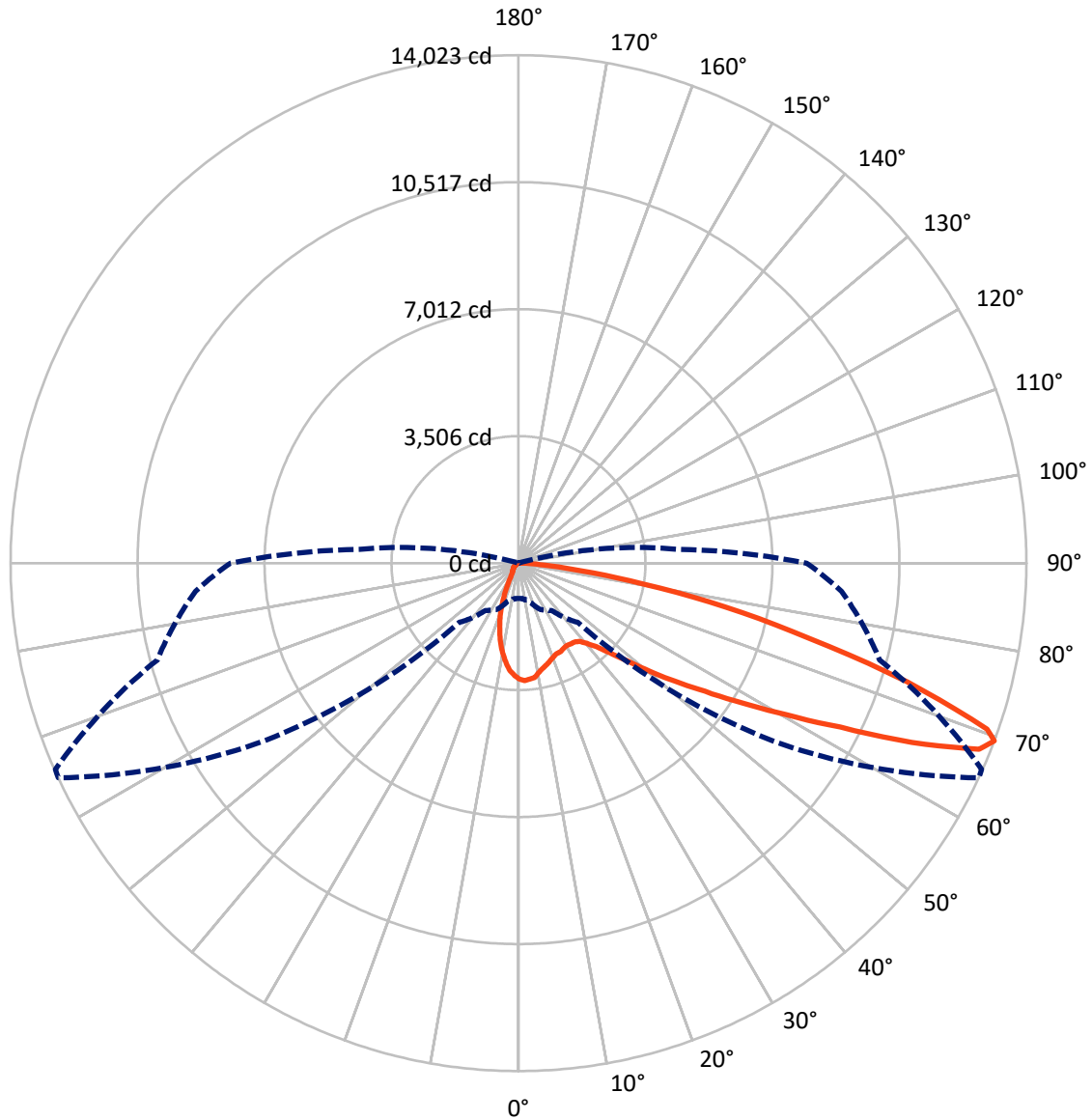
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 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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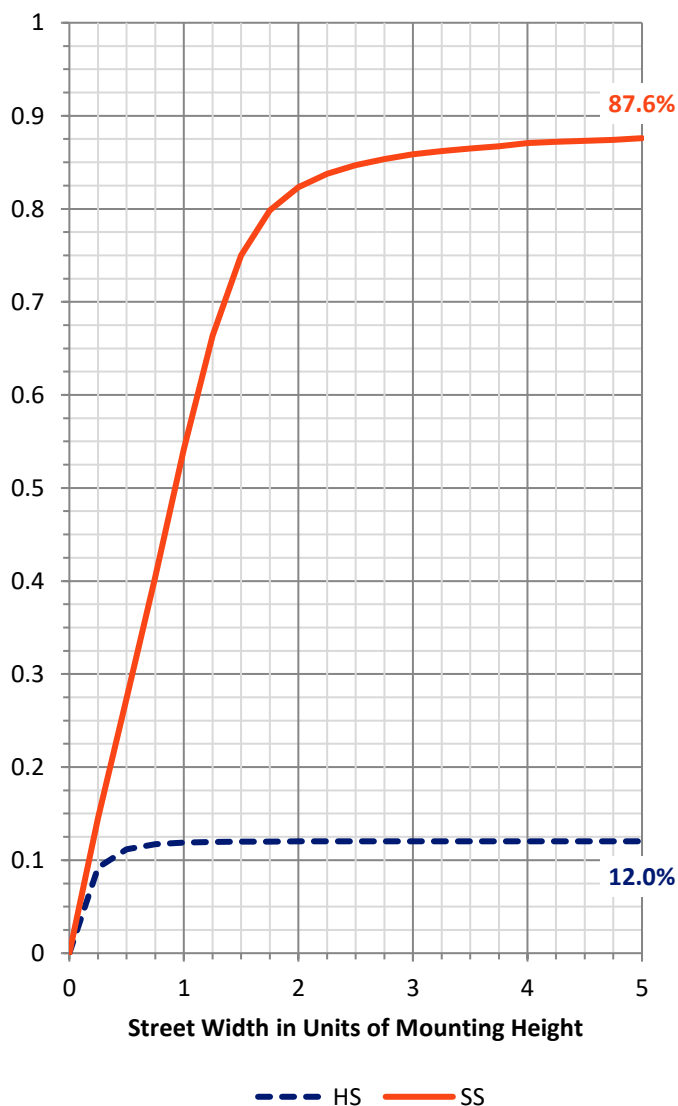
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1540.1	0.0	1540.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	11155.7	0.0	11155.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	12695.8	0.0	12695.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	2.1
10°-20°	573.1	4.5
20°-30°	797.9	6.3
30°-40°	1130.7	8.9
40°-50°	1782.0	14.0
50°-60°	2891.5	22.8
60°-70°	3229.2	25.4
70°-80°	1818.4	14.3
80°-90°	211.0	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°	12695.8	100.0
0°-180°	12695.8	100.0

**Coefficient of Utilization**



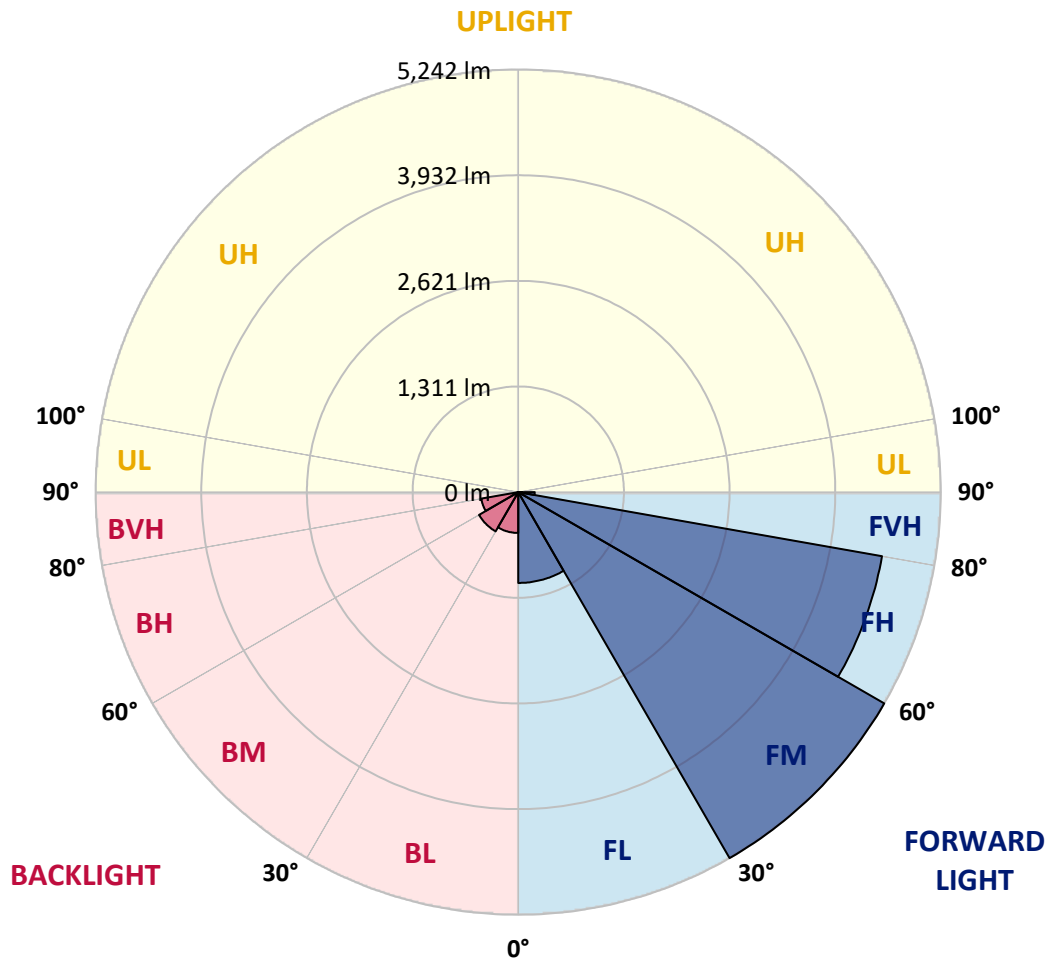
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.6	8.9			
FM (30°-60°)	5242.2	41.3			
FH (60°-80°)	4581.7	36.1			G2/5000
FVH (80°-90°)	205.2	1.6			G2/225
BL (0°-30°)	506.3	4.0	B2/1000		
BM (30°-60°)	562.0	4.4	B1/1000		
BH (60°-80°)	466.0	3.7	B1/500		G1/500
BVH (80°-90°)	5.8	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-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9
2.5°	3082.7	3106.7	3113.6	3137.5	3149.5	3200.9	3230.0	3247.1	3238.6	3257.4	3259.1
5°	2863.5	2849.8	2885.8	2911.5	2966.3	3055.3	3146.1	3216.3	3248.9	3279.7	3274.5
7.5°	2628.9	2622.0	2658.0	2716.2	2765.9	2873.8	3019.4	3192.3	3185.5	3260.8	3283.1
10°	2467.9	2474.8	2486.7	2545.0	2618.6	2728.2	2909.8	3070.7	3106.7	3266.0	3310.5
12.5°	2320.6	2332.6	2354.9	2414.8	2500.4	2613.5	2789.9	2978.3	3033.1	3236.9	3325.9
15°	2272.7	2245.3	2289.8	2334.3	2423.4	2524.4	2673.4	2908.0	2932.0	3202.6	3351.6
17.5°	2233.3	2216.1	2236.7	2272.7	2366.9	2449.1	2589.5	2832.7	2877.2	3188.9	3348.2
20°	2245.3	2229.8	2238.4	2265.8	2308.6	2385.7	2515.9	2760.8	2808.7	3125.6	3343.1
22.5°	2279.5	2291.5	2276.1	2282.9	2296.6	2336.0	2476.5	2709.4	2750.5	3113.6	3372.2
25°	2433.6	2413.1	2392.5	2384.0	2303.5	2320.6	2464.5	2706.0	2735.1	3070.7	3348.2
27.5°	2594.6	2577.5	2568.9	2519.3	2409.7	2358.3	2466.2	2658.0	2697.4	3053.6	3319.1
30°	2789.9	2812.1	2777.9	2717.9	2565.5	2438.8	2485.0	2634.0	2688.8	2988.5	3300.2
32.5°	2995.4	3007.4	3024.5	2980.0	2783.0	2560.4	2541.5	2656.3	2659.7	2988.5	3257.4
35°	3228.3	3211.2	3255.7	3259.1	3086.2	2776.2	2649.4	2671.7	2707.7	2974.8	3242.0
37.5°	3428.7	3457.8	3509.2	3591.4	3413.3	3081.0	2817.3	2743.6	2759.0	3038.2	3254.0
40°	3647.9	3677.0	3793.5	3875.7	3774.6	3423.5	3072.5	2911.5	2923.5	3132.4	3315.7
42.5°	3889.4	3945.9	4084.6	4228.5	4201.1	3858.6	3401.3	3158.1	3153.0	3367.0	3442.4
45°	4216.5	4291.9	4442.6	4608.7	4632.7	4356.9	3839.7	3526.3	3543.4	3673.6	3704.4
47.5°	4672.1	4668.6	4815.9	5000.9	5139.6	4874.1	4363.8	4021.3	4019.5	4158.3	4093.2
50°	5112.2	5113.9	5153.3	5367.4	5727.0	5591.7	5012.9	4678.9	4660.1	4728.6	4624.1
52.5°	5316.0	5292.0	5262.9	5521.5	6179.2	6496.0	5834.9	5423.9	5408.5	5367.4	5340.0
55°	5101.9	5110.5	5108.8	5377.7	6417.2	7449.9	6889.9	6244.2	6218.6	6090.1	6127.8
57.5°	4415.2	4387.8	4447.7	4867.3	6144.9	8100.7	8398.7	7278.7	7211.9	6785.4	6699.8
60°	3286.5	3295.1	3344.8	3839.7	5468.4	8237.8	9842.5	8492.9	8205.2	7275.3	7157.1
62.5°	2294.9	2277.8	2296.6	2574.1	3909.9	7689.7	10818.7	9969.2	9691.8	7831.9	7763.4
65°	1642.4	1620.1	1695.5	1865.1	2348.0	5879.5	10957.4	11935.3	11687.0	8720.7	8556.3
67.5°	1181.7	1178.3	1265.6	1573.9	1668.1	3385.9	9929.8	13716.5	13565.7	9775.7	9039.3
69°	977.9	979.6	1063.5	1409.5	1592.7	2312.1	8544.3	14023.0	13995.6	10320.3	8948.5
70°	852.9	859.7	957.4	1311.9	1561.9	1901.0	7366.0	13721.6	13694.2	10426.5	8648.8
72.5°	525.8	530.9	659.4	1051.6	1484.9	1551.6	4404.9	11226.3	11320.5	9940.1	7451.7
75°	251.8	253.5	346.0	760.4	1431.8	1471.1	2360.0	8284.0	8482.7	8025.4	5822.9
77.5°	133.6	133.6	166.1	404.2	1159.5	1383.8	1400.9	5843.5	6007.9	5074.5	3310.5
80°	66.8	68.5	101.0	210.7	719.3	1356.4	1094.4	3485.2	3574.3	2070.6	1031.0
82.5°	25.7	27.4	48.0	126.7	373.4	1145.7	960.8	1714.3	1692.1	484.7	251.8
85°	3.4	3.4	17.1	75.4	159.3	505.2	792.9	715.9	691.9	106.2	121.6
87.5°	0.0	0.0	3.4	22.3	48.0	147.3	306.6	197.0	219.2	29.1	59.9
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°	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9
2.5°	3250.6	3214.6	3159.8	3106.7	3050.2	2981.7	2906.3	2878.9	2831.0	2827.6	2855.0
5°	3247.1	3188.9	3093.0	2980.0	2819.0	2697.4	2565.5	2469.6	2396.0	2348.0	2360.0
7.5°	3264.3	3194.1	3027.9	2784.7	2577.5	2336.0	2132.2	1991.8	1863.3	1800.0	1793.1
10°	3236.9	3142.7	2899.5	2558.7	2253.8	1916.4	1618.4	1430.0	1238.2	1168.0	1171.4
12.5°	3252.3	3120.4	2760.8	2325.8	1906.2	1467.7	1111.5	854.6	674.8	616.5	609.7
15°	3262.6	3072.5	2627.2	2046.6	1520.8	1000.2	643.9	484.7	428.2	417.9	416.2
17.5°	3223.2	3014.2	2438.8	1770.9	1126.9	608.0	428.2	395.6	385.3	378.5	375.1
20°	3221.5	2980.0	2276.1	1488.3	751.8	414.5	369.9	357.9	342.5	337.4	337.4
22.5°	3192.3	2908.0	2080.8	1178.3	479.5	356.2	332.3	313.4	296.3	289.4	287.7
25°	3183.8	2824.1	1897.6	885.4	364.8	318.5	294.6	267.2	246.6	236.3	231.2
27.5°	3159.8	2752.2	1712.6	623.4	318.5	284.3	253.5	224.4	200.4	185.0	183.3
30°	3074.2	2676.8	1507.1	431.6	289.4	251.8	217.5	183.3	159.3	149.0	145.6
32.5°	3038.2	2606.6	1282.8	332.3	263.7	222.6	183.3	152.4	133.6	123.3	121.6
35°	2995.4	2503.9	1065.3	289.4	239.8	193.5	154.1	128.4	113.0	104.5	104.5
37.5°	3000.5	2421.7	861.5	262.0	214.1	166.1	131.9	109.6	95.9	87.3	87.3
40°	2985.1	2356.6	669.6	238.1	190.1	142.1	111.3	92.5	80.5	71.9	70.2
42.5°	3055.3	2339.5	505.2	217.5	166.1	121.6	95.9	78.8	66.8	56.5	56.5
45°	3173.5	2366.9	393.9	198.7	142.1	104.5	82.2	65.1	53.1	46.2	44.5
47.5°	3488.6	2474.8	308.3	183.3	121.6	90.8	68.5	53.1	42.8	36.0	34.3
50°	3945.9	2716.2	262.0	161.0	102.8	77.1	56.5	41.1	34.3	27.4	25.7
52.5°	4596.7	3122.1	238.1	142.1	85.6	63.4	44.5	32.5	25.7	20.6	18.8
55°	5305.7	3629.1	215.8	119.9	71.9	51.4	36.0	25.7	18.8	13.7	12.0
57.5°	5858.9	4067.5	197.0	99.3	58.2	41.1	27.4	18.8	13.7	8.6	6.9
60°	6463.5	4375.8	173.0	78.8	48.0	30.8	20.6	13.7	10.3	5.1	5.1
62.5°	7086.9	4737.1	142.1	61.7	37.7	24.0	15.4	10.3	6.9	1.7	1.7
65°	7953.5	5019.7	109.6	48.0	29.1	17.1	12.0	8.6	3.4	0.0	0.0
67.5°	8198.4	4881.0	80.5	37.7	20.6	12.0	8.6	5.1	1.7	0.0	0.0
69°	7953.5	4396.3	70.2	32.5	17.1	10.3	6.9	3.4	1.7	0.0	0.0
70°	7506.5	4019.5	61.7	27.4	15.4	10.3	5.1	3.4	1.7	0.0	0.0
72.5°	6278.5	3082.7	48.0	20.6	12.0	8.6	5.1	3.4	0.0	0.0	0.0
75°	4605.3	1904.4	36.0	15.4	10.3	6.9	5.1	3.4	0.0	0.0	0.0
77.5°	2467.9	695.3	25.7	10.3	6.9	5.1	5.1	3.4	0.0	0.0	0.0
80°	676.5	205.5	18.8	6.9	5.1	3.4	3.4	1.7	0.0	0.0	0.0
82.5°	185.0	53.1	12.0	6.9	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	99.3	20.6	6.9	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	51.4	6.9	5.1	3.4	3.4	1.7	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)