

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: P482878

Luminaire Tested: **IFLD-S-SA3D-750-U-T3R-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482878  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-750-U-T3R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

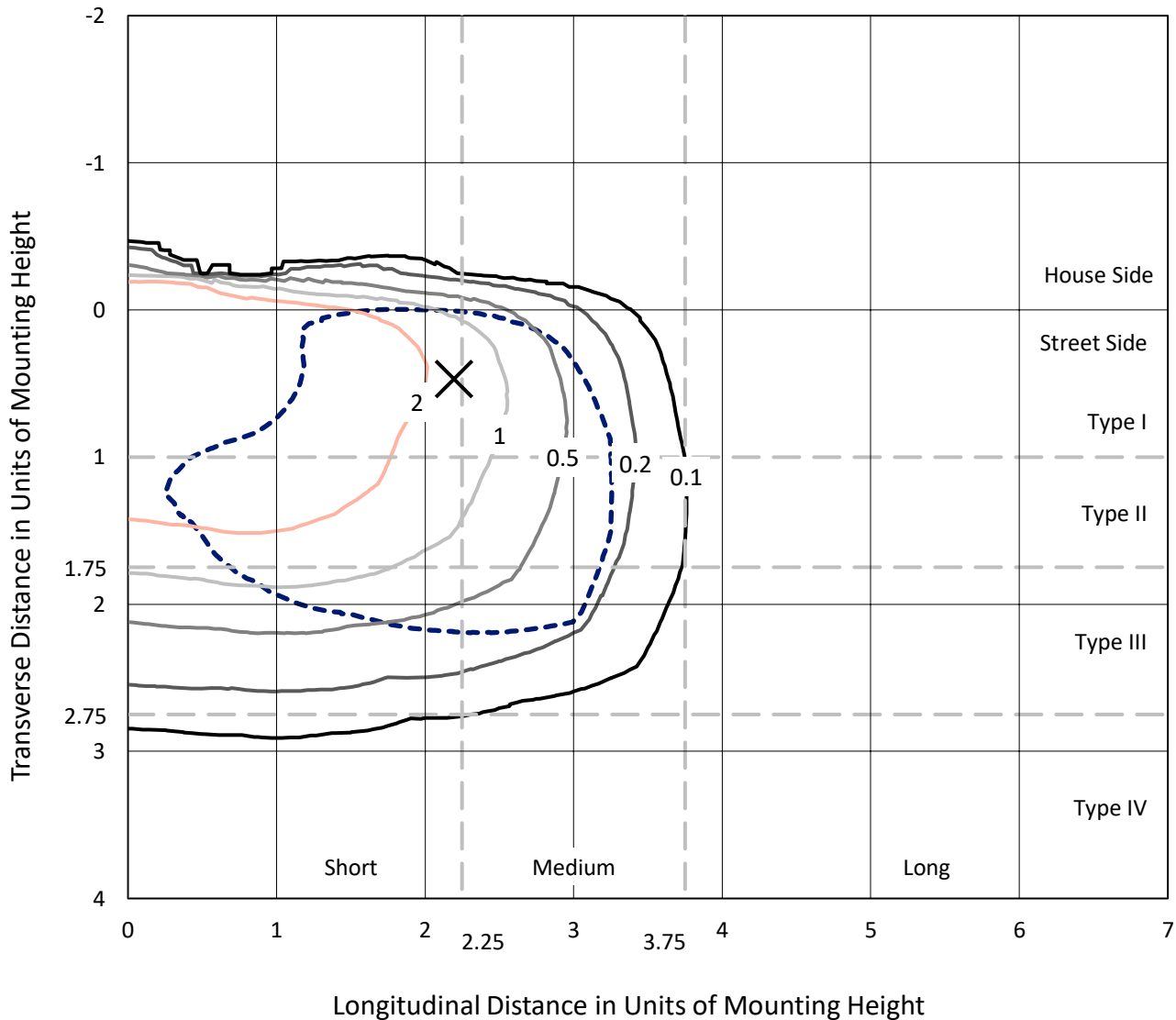
Lumens per Lamp: N/A  
Luminaire Lumens: 17089.5 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

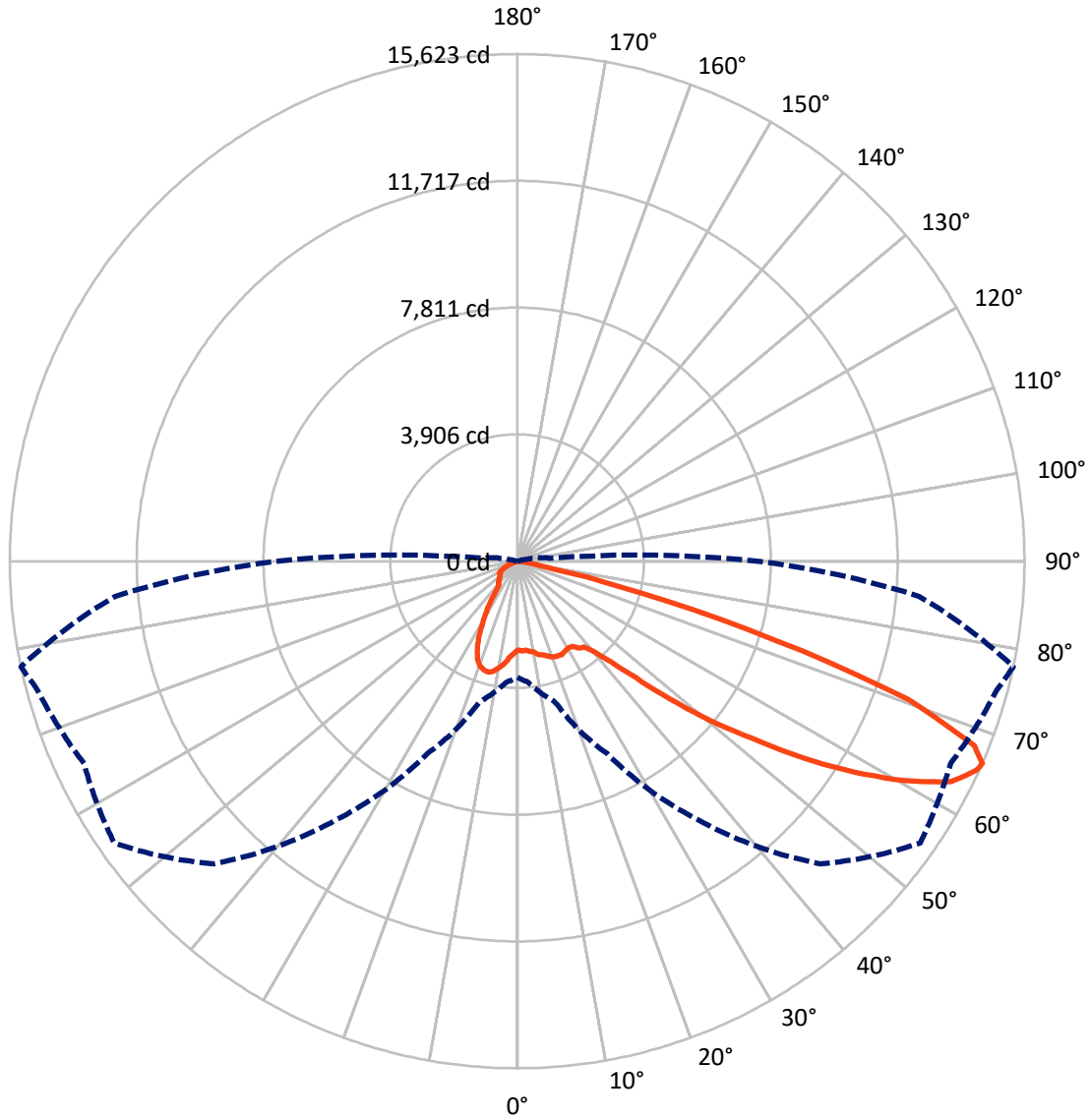
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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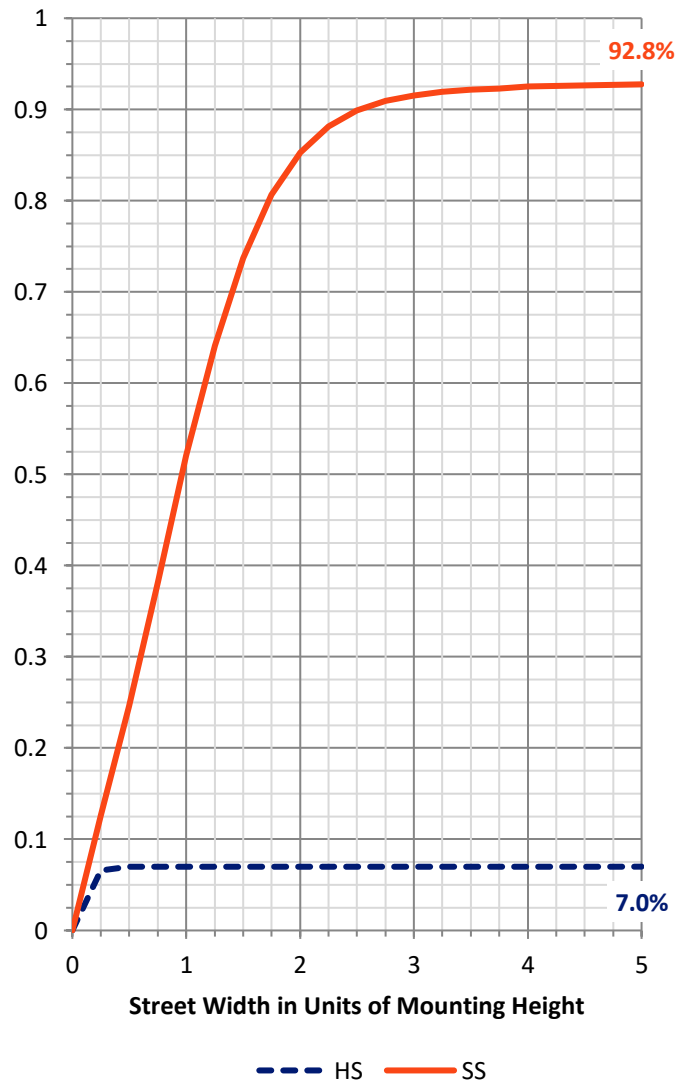
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1201.5	0.0	1201.5
	% Fixture	7.0	0.0	7.0
<b>Street Side</b>	Lumens	15888.0	0.0	15888.0
	% Fixture	93.0	0.0	93.0
<b>Total</b>	Lumens	17089.5	0.0	17089.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.4	1.5
10°-20°	565.3	3.3
20°-30°	807.9	4.7
30°-40°	1383.0	8.1
40°-50°	2496.1	14.6
50°-60°	4268.7	25.0
60°-70°	5254.1	30.7
70°-80°	1986.3	11.6
80°-90°	77.6	0.5
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°	17089.5	100.0
0°-180°	17089.5	100.0

**Coefficient of Utilization**

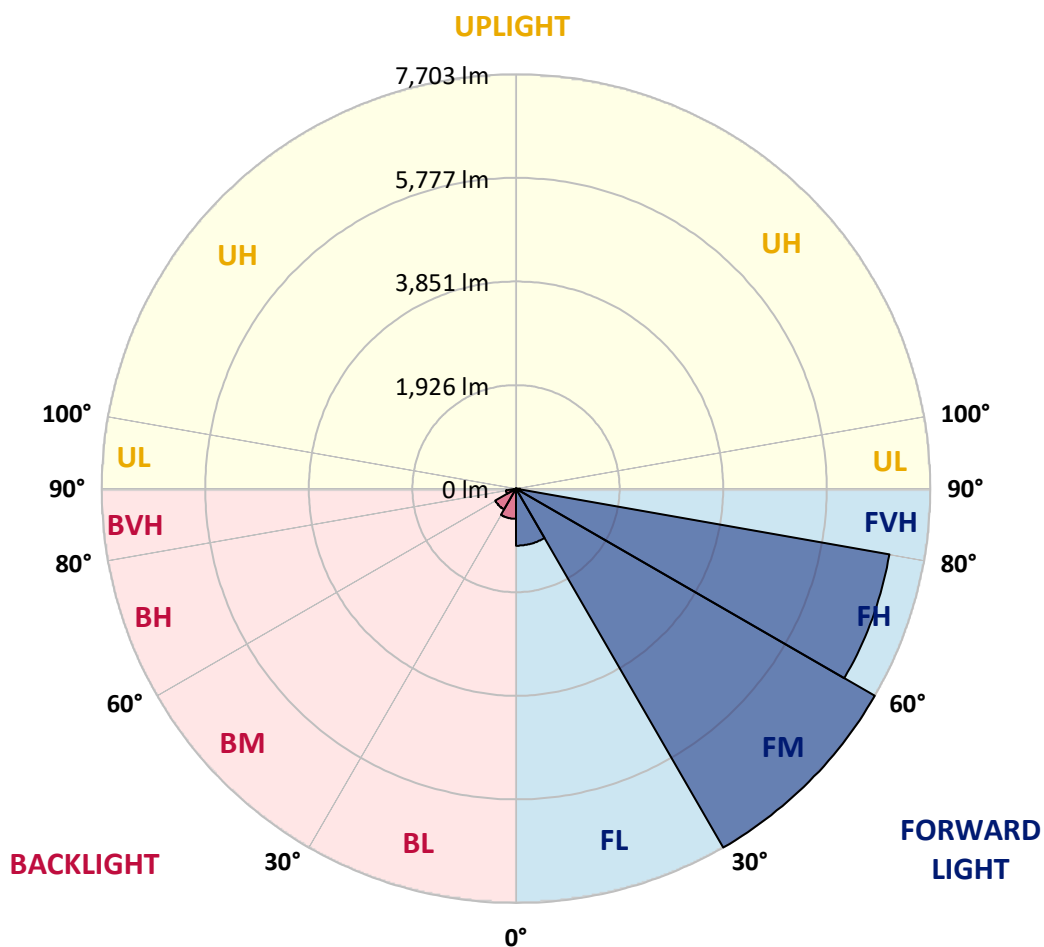


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.9	6.2			
FM (30°-60°)	7702.6	45.1			
FH (60°-80°)	7050.0	41.3			G3/7500
FVH (80°-90°)	74.5	0.4			G1/100
BL (0°-30°)	562.7	3.3	B2/1000		
BM (30°-60°)	445.3	2.6	B1/1000		
BH (60°-80°)	190.4	1.1	B1/500		G1/500
BVH (80°-90°)	3.1	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2
2.5°	2517.7	2494.5	2517.7	2551.3	2569.3	2584.8	2639.1	2685.5	2734.6	2768.2	2757.8
5°	2334.4	2378.3	2383.4	2393.7	2422.1	2515.1	2546.1	2626.1	2747.5	2757.8	2804.3
7.5°	2189.7	2176.8	2210.4	2277.5	2349.8	2404.1	2494.5	2633.9	2760.4	2804.3	2894.7
10°	1980.6	2006.4	2042.6	2109.7	2197.5	2331.8	2491.9	2646.8	2827.6	2843.1	3010.9
12.5°	1867.0	1841.1	1898.0	1967.7	2117.4	2241.4	2437.6	2623.6	2868.9	2954.1	3147.8
15°	1774.0	1786.9	1841.1	1887.6	2011.6	2169.1	2398.9	2680.4	2938.6	2998.0	3292.4
17.5°	1735.3	1727.5	1768.8	1815.3	1967.7	2145.8	2383.4	2683.0	3000.6	3078.0	3390.5
20°	1753.3	1768.8	1755.9	1799.8	1895.4	2076.1	2406.7	2732.0	3047.1	3152.9	3496.4
22.5°	2037.4	2016.7	1913.4	1830.8	1836.0	2047.7	2388.6	2763.0	3088.4	3173.6	3568.7
25°	2778.5	2667.5	2411.8	2094.2	1885.0	1970.3	2367.9	2752.7	3080.6	3186.5	3612.6
27.5°	3524.8	3429.2	3178.7	2685.5	2083.9	1939.3	2295.6	2760.4	3041.9	3140.0	3540.3
30°	4312.4	4364.0	3992.2	3406.0	2605.5	2109.7	2249.1	2719.1	3016.1	3098.7	3555.8
32.5°	5120.6	5099.9	4875.3	4240.1	3351.8	2486.7	2324.0	2760.4	3049.6	3129.7	3646.1
35°	5753.2	5680.9	5453.7	4880.4	3968.9	3054.8	2582.2	2956.7	3196.8	3292.4	3775.2
37.5°	6065.7	6096.7	5965.0	5466.6	4645.5	3581.6	2905.0	2956.7	3243.3	3354.3	3984.4
40°	6308.4	6401.4	6352.3	6192.2	5316.8	4175.5	3261.4	3140.0	3478.3	3687.5	4376.9
42.5°	6600.2	6556.3	6845.5	6698.4	6194.8	4924.3	3886.3	3576.4	4033.5	4234.9	4965.7
45°	6755.2	6923.0	7142.5	7331.0	7008.2	5859.1	4702.3	4348.5	4883.0	5138.7	5841.0
47.5°	7152.8	7220.0	7576.3	7813.9	7669.3	6928.2	5941.8	5476.9	5952.1	6354.9	6843.0
50°	7385.2	7294.9	7793.2	8154.7	8237.4	7813.9	7052.1	6690.6	7222.5	7736.4	7780.3
52.5°	7181.2	7439.5	7937.8	8586.0	8815.8	8604.1	8356.2	8198.6	8573.1	9048.2	8836.5
55°	6466.0	6641.5	7855.2	9058.5	9799.6	9701.5	9931.3	9828.0	10205.0	10708.6	10070.8
57.5°	5890.1	6109.6	7176.1	9303.8	10716.3	11005.5	11294.8	11230.2	11684.7	12265.7	11116.6
60°	5531.2	5657.7	6685.4	9241.9	11258.6	12353.5	13006.8	12552.3	13293.4	13737.6	11935.2
62.5°	4908.9	4988.9	5970.2	8420.7	11421.3	13306.3	14414.1	13797.0	14439.9	14982.2	12523.9
65°	3935.3	4152.3	4963.1	7191.6	10347.1	13481.9	15292.1	14566.5	15188.8	15545.1	12702.1
66°	3581.6	3739.1	4482.8	6540.8	9735.1	13190.1	15144.9	14726.6	15297.2	15622.6	12428.4
67.5°	2972.2	3109.0	3700.4	5613.8	8482.7	12547.1	15248.2	14618.1	15379.9	15181.0	12061.7
70°	1967.7	2055.5	2530.6	3795.9	5908.2	10264.4	14143.0	13771.1	13520.7	12774.4	9430.4
72.5°	919.3	1045.8	1580.3	2300.8	3465.4	7181.2	11532.3	11033.9	9482.0	8289.0	5949.5
75°	415.7	472.6	867.6	1319.5	1554.5	3721.0	7439.5	6719.0	4720.4	3919.9	2605.5
77.5°	224.7	255.6	423.5	627.5	565.5	1304.0	3682.3	3062.5	1487.4	1089.7	756.6
80°	173.0	204.0	353.8	358.9	209.2	338.3	1368.6	947.7	371.8	281.5	180.8
82.5°	90.4	129.1	278.9	232.4	105.9	136.9	423.5	263.4	116.2	93.0	77.5
85°	36.2	56.8	157.5	154.9	62.0	46.5	118.8	80.0	46.5	38.7	36.2
87.5°	2.6	2.6	85.2	59.4	38.7	12.9	18.1	18.1	23.2	20.7	25.8
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°	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2	2737.2
2.5°	2804.3	2835.3	2840.5	2925.7	2943.8	2925.7	2972.2	2964.4	2985.1	2969.6	2941.2
5°	2868.9	2912.8	2998.0	3062.5	3062.5	3010.9	2969.6	2915.4	2835.3	2814.7	2799.2
7.5°	2979.9	3119.4	3196.8	3155.5	3072.9	2879.2	2610.7	2414.4	2249.1	2187.2	2158.8
10°	3176.2	3253.6	3344.0	3176.2	2832.7	2422.1	1970.3	1673.3	1440.9	1389.2	1350.5
12.5°	3302.7	3426.6	3478.3	3062.5	2388.6	1776.6	1286.0	950.3	787.6	663.6	643.0
15°	3468.0	3610.0	3504.1	2755.3	1882.5	1164.6	666.2	415.7	338.3	317.6	317.6
17.5°	3581.6	3736.5	3398.2	2373.1	1335.0	619.7	330.5	286.6	281.5	284.0	278.9
20°	3780.4	3873.4	3238.1	1928.9	797.9	317.6	266.0	255.6	250.5	258.2	253.1
22.5°	3855.3	3940.5	2977.3	1397.0	358.9	211.7	198.8	191.1	196.3	193.7	191.1
25°	3850.1	3894.0	2548.7	800.5	105.9	82.6	74.9	74.9	69.7	72.3	69.7
27.5°	3888.9	3780.4	2068.4	237.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3909.5	3597.1	1471.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3919.9	3501.5	947.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3999.9	3310.4	405.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4054.1	3065.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4278.8	2987.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4570.6	2843.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4976.0	2628.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5513.1	2502.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5913.3	2303.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6422.1	2184.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7026.3	2189.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7576.3	2153.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7857.8	1841.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7798.4	1490.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7591.8	1169.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7449.8	1035.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7018.6	828.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5585.4	568.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3553.2	348.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1637.1	160.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	513.9	98.1	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	134.3	62.0	20.7	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	69.7	43.9	18.1	7.7	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	43.9	18.1	7.7	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	38.7	10.3	5.2	5.2	2.6	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)