

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: P482430

Luminaire Tested: **IFLD-M-SA4D-735-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482430  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

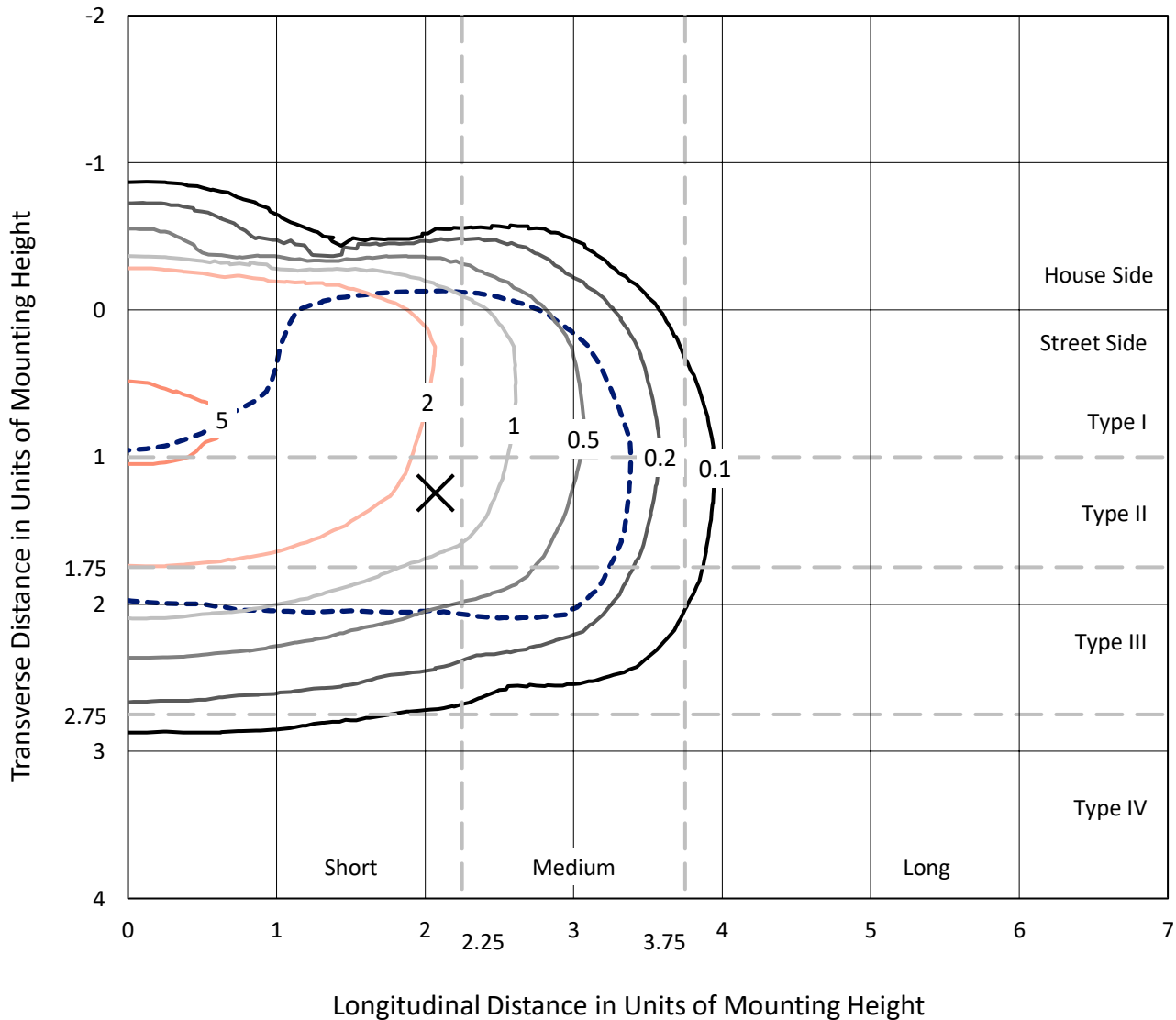
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22895.4 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 249.7  
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

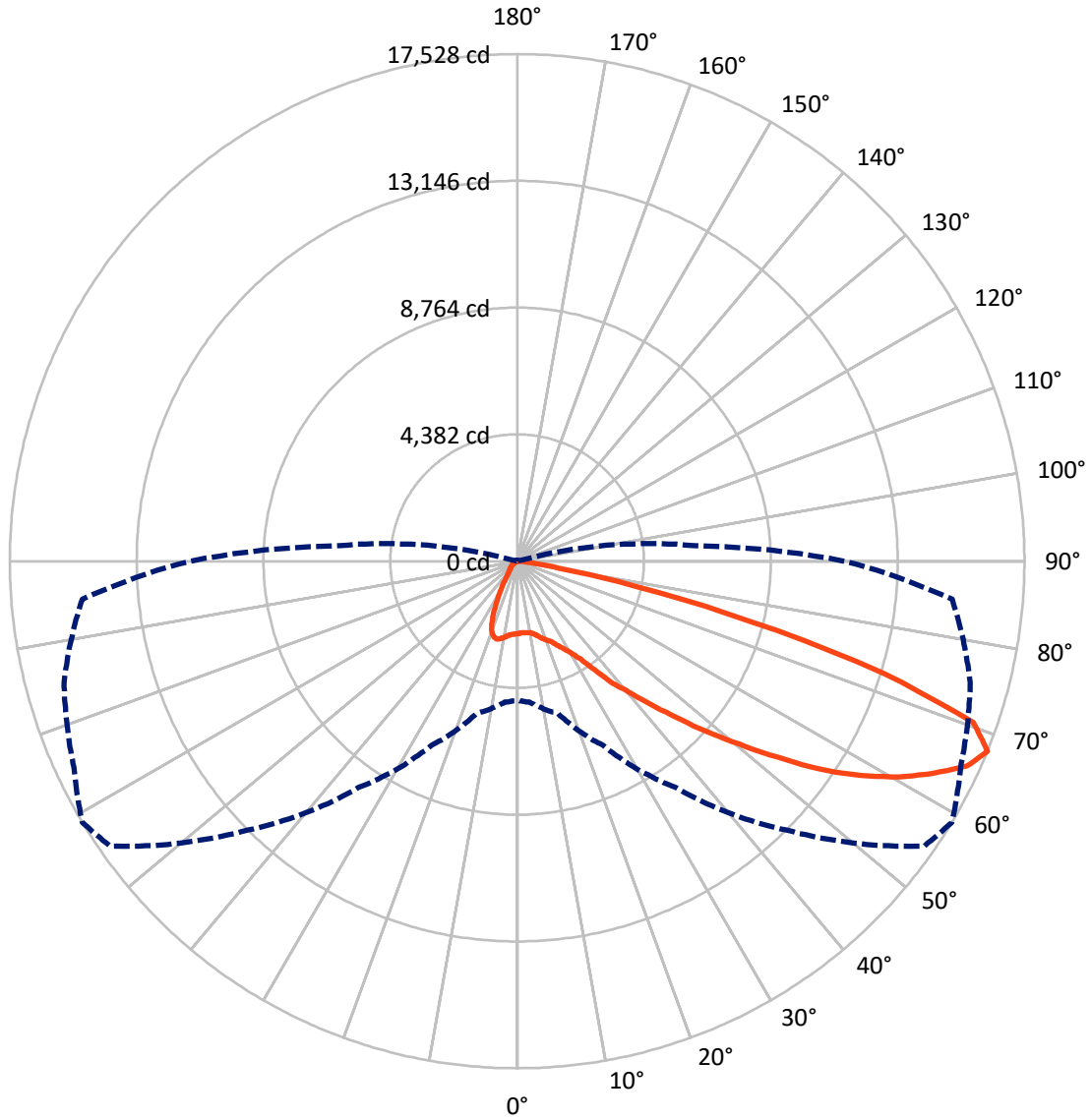
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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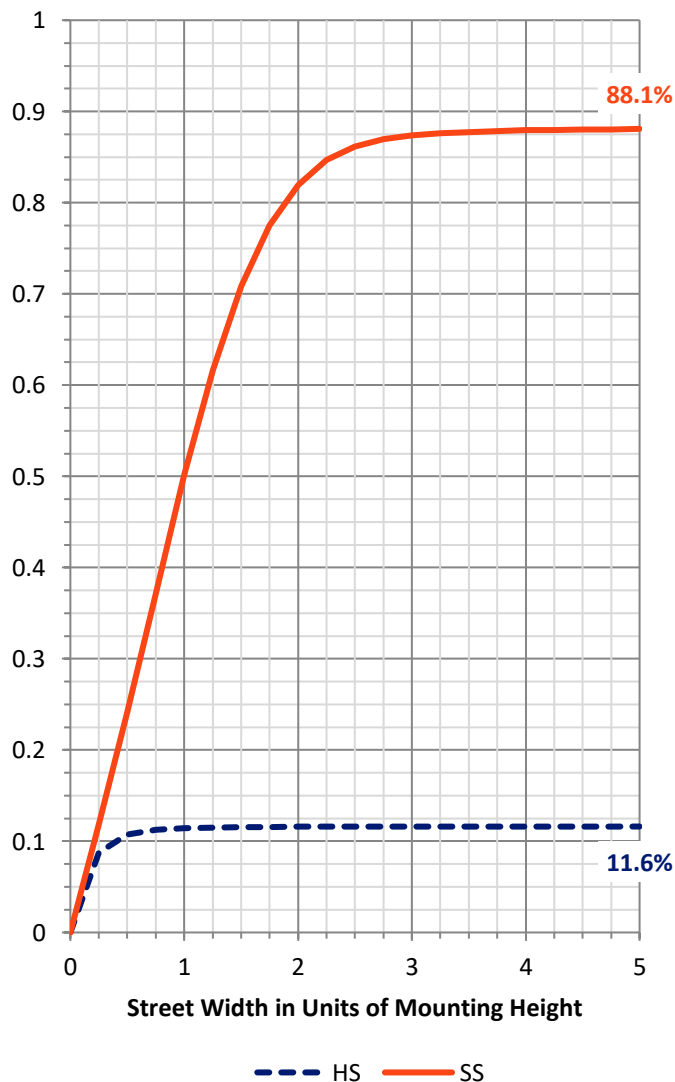
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2689.5	0.0	2689.5
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	20206.0	0.0	20206.0
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	22895.4	0.0	22895.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.5	1.0
10°-20°	689.0	3.0
20°-30°	1204.3	5.3
30°-40°	2120.3	9.3
40°-50°	3748.0	16.4
50°-60°	5934.3	25.9
60°-70°	6582.8	28.8
70°-80°	2284.1	10.0
80°-90°	94.1	0.4
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°	22895.4	100.0
0°-180°	22895.4	100.0

**Coefficient of Utilization**

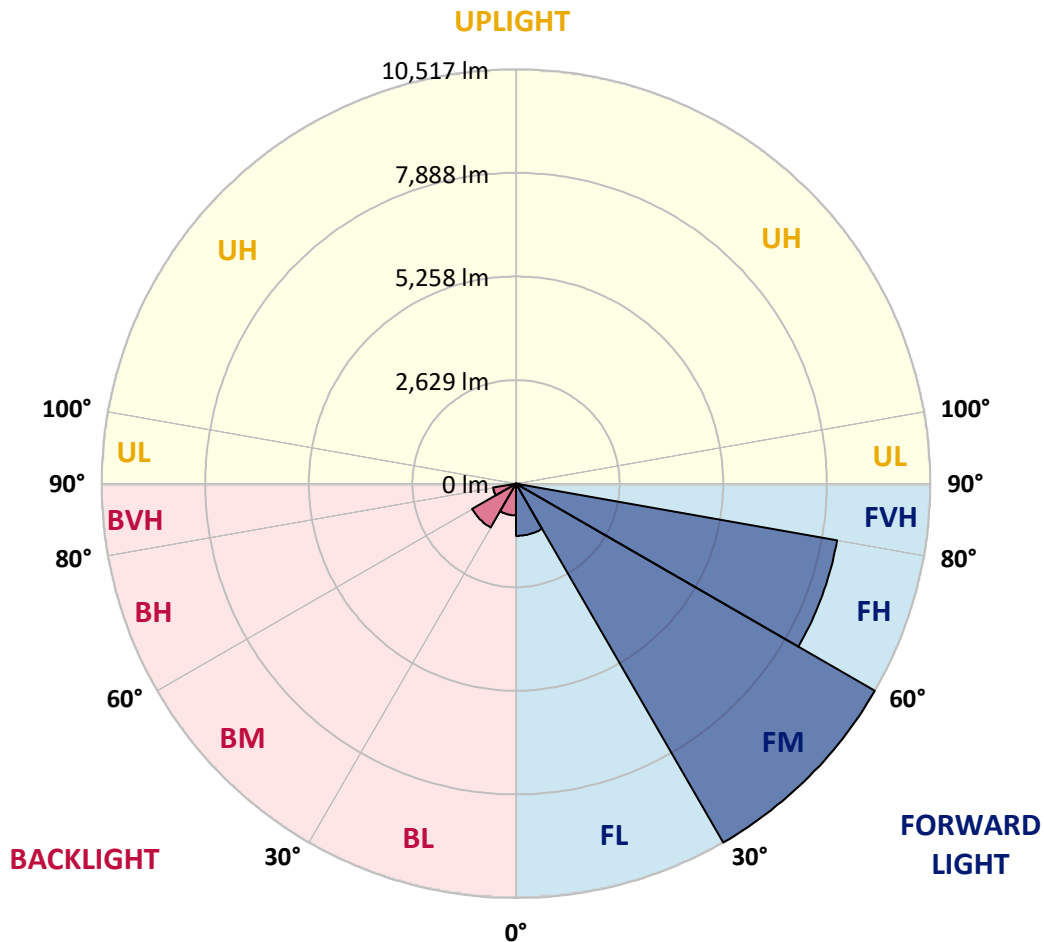


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.8	5.8			
FM (30°-60°)	10516.7	45.9			
FH (60°-80°)	8275.5	36.1			G4/12000
FVH (80°-90°)	88.0	0.4			G1/100
BL (0°-30°)	806.0	3.5	B2/1000		
BM (30°-60°)	1285.9	5.6	B2/2500		
BH (60°-80°)	591.5	2.6	B2/1000		G2/1000
BVH (80°-90°)	6.1	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2
2.5°	2438.5	2403.7	2435.3	2438.5	2441.6	2470.1	2501.7	2479.6	2476.4	2501.7	2523.9
5°	2340.4	2324.6	2362.6	2381.5	2413.2	2438.5	2489.1	2492.2	2495.4	2523.9	2561.8
7.5°	2299.3	2261.4	2305.6	2327.8	2349.9	2410.0	2470.1	2501.7	2546.0	2580.8	2618.7
10°	2217.1	2245.5	2258.2	2296.1	2359.4	2429.0	2501.7	2517.5	2615.6	2644.1	2735.8
12.5°	2245.5	2264.5	2289.8	2299.3	2368.9	2473.3	2571.3	2577.6	2678.8	2802.2	2849.6
15°	2318.3	2305.6	2315.1	2327.8	2410.0	2495.4	2653.5	2682.0	2776.9	2916.0	3033.1
17.5°	2473.3	2451.1	2435.3	2432.1	2451.1	2530.2	2716.8	2802.2	2890.7	3080.5	3140.6
20°	2862.3	2843.3	2780.0	2615.6	2558.7	2590.3	2792.7	2912.9	3036.2	3248.1	3346.2
22.5°	3453.7	3472.7	3324.0	3093.2	2856.0	2732.6	2912.9	3017.3	3213.3	3482.2	3570.7
25°	4152.7	4114.7	3934.4	3665.6	3292.4	3001.4	3105.8	3222.8	3463.2	3684.6	3719.4
27.5°	4699.8	4655.6	4516.4	4190.6	3868.0	3396.8	3358.8	3431.6	3716.2	3915.5	3877.5
30°	5240.7	5256.5	5161.6	4775.7	4377.2	3880.7	3640.3	3671.9	3890.2	4146.4	4061.0
32.5°	5930.1	5892.2	5838.4	5500.0	5028.8	4497.4	4086.3	4035.7	4130.5	4469.0	4367.7
35°	6572.2	6550.0	6477.3	6135.7	5724.6	5145.8	4744.1	4630.3	4608.1	4984.5	4807.4
37.5°	7132.0	7094.0	6983.3	6765.1	6366.6	5879.5	5439.9	5338.7	5335.5	5594.9	5253.3
40°	7603.2	7631.7	7619.0	7378.7	7160.4	6771.4	6097.8	5936.5	5923.8	6063.0	5863.7
42.5°	8213.6	8280.1	8245.3	8197.8	7935.3	7783.5	7021.3	6774.6	6663.9	6948.5	6768.3
45°	9137.2	9162.5	9184.6	9067.6	8805.1	8836.7	7976.4	7682.3	7653.8	8077.6	7672.8
47.5°	10000.6	9934.2	10089.1	10095.5	10082.8	9937.3	9007.5	8789.3	8827.2	9149.8	8732.3
50°	10215.6	10386.4	10813.4	10892.5	11098.1	11230.9	10152.4	9934.2	9997.4	10364.3	9886.7
52.5°	10383.3	10642.6	11069.6	11648.4	12201.8	12518.1	11433.3	11256.2	11253.0	11477.6	10819.7
55°	10677.4	10835.5	11205.6	12002.6	13055.8	13574.5	12976.7	12692.1	12435.9	12594.0	11787.5
57.5°	10648.9	10709.0	11284.7	12268.3	13732.6	14675.1	14245.0	13973.0	13644.1	13552.3	12900.8
60°	10149.2	10291.6	10936.8	12088.0	14150.1	15532.2	15427.8	15149.5	14583.4	14368.3	13754.8
62.5°	9159.3	9349.1	9855.1	11455.4	13542.9	15576.5	16243.8	16139.5	15506.9	15121.1	14868.0
65°	7422.9	7511.5	8093.5	9848.8	12170.2	14896.5	17208.5	17078.8	16496.8	15921.2	15440.5
67.5°	4807.4	4892.8	5452.6	7030.8	9557.8	13141.2	17170.5	17527.9	16898.5	16205.9	15083.1
70°	2270.8	2248.7	2770.6	3906.0	6123.1	10035.4	16009.8	16715.1	16180.6	14690.9	12527.6
72.5°	692.6	752.7	1151.2	1730.0	3143.8	6259.1	12549.8	13210.8	13043.1	11736.9	8362.3
75°	306.8	332.1	452.3	708.5	1274.6	2568.1	7751.9	8340.1	8267.4	6923.2	3817.4
77.5°	196.1	215.1	284.6	404.8	578.8	816.0	3570.7	4143.2	4016.7	2432.1	999.4
80°	139.2	148.6	202.4	278.3	363.7	335.3	1230.3	1461.2	1401.1	661.0	268.8
82.5°	75.9	82.2	148.6	205.6	243.5	170.8	344.7	430.1	449.1	294.1	129.7
85°	28.5	34.8	91.7	145.5	126.5	79.1	101.2	123.3	161.3	161.3	60.1
87.5°	0.0	3.2	38.0	63.3	31.6	22.1	28.5	34.8	44.3	75.9	22.1
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°	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2	2511.2
2.5°	2539.7	2517.5	2527.0	2542.8	2508.1	2527.0	2489.1	2517.5	2527.0	2489.1	2508.1
5°	2571.3	2593.4	2580.8	2555.5	2533.4	2539.7	2530.2	2508.1	2527.0	2533.4	2520.7
7.5°	2663.0	2637.7	2644.1	2615.6	2571.3	2568.1	2508.1	2492.2	2498.6	2504.9	2482.8
10°	2748.4	2764.2	2732.6	2710.5	2637.7	2590.3	2508.1	2419.5	2410.0	2372.1	2403.7
12.5°	2900.2	2862.3	2849.6	2776.9	2704.1	2546.0	2368.9	2232.9	2119.0	2077.9	2036.8
15°	3026.7	3020.4	2998.3	2887.6	2720.0	2432.1	2096.9	1780.6	1562.4	1426.4	1407.4
17.5°	3200.7	3172.2	3131.1	2957.2	2602.9	2134.8	1562.4	1163.9	945.7	860.3	828.6
20°	3333.5	3311.4	3254.5	2941.3	2391.0	1590.9	967.8	740.1	686.3	670.5	673.7
22.5°	3526.5	3456.9	3349.3	2862.3	2005.2	1059.5	695.8	661.0	651.5	638.9	642.0
25°	3694.1	3630.8	3406.3	2726.3	1429.6	702.1	645.2	626.2	610.4	594.6	591.4
27.5°	3842.7	3763.7	3466.4	2448.0	895.1	604.1	597.8	575.6	544.0	518.7	509.2
30°	3988.2	3896.5	3482.2	1926.1	604.1	547.2	531.3	496.6	455.4	420.6	414.3
32.5°	4231.7	4121.0	3460.0	1375.8	521.9	487.1	452.3	411.2	351.1	322.6	316.3
35°	4611.3	4443.6	3431.6	809.7	468.1	430.1	376.4	322.6	278.3	249.9	243.5
37.5°	5047.7	4756.8	3349.3	540.8	430.1	379.5	309.9	256.2	218.2	196.1	189.8
40°	5696.1	5215.4	3033.1	442.8	382.7	322.6	249.9	202.4	174.0	158.1	151.8
42.5°	6410.9	5740.4	2546.0	398.5	338.4	275.2	199.3	164.5	142.3	126.5	126.5
45°	7268.0	6287.5	1964.1	363.7	300.5	227.7	164.5	132.8	113.9	101.2	94.9
47.5°	8223.1	6784.1	1325.2	328.9	253.0	186.6	136.0	101.2	82.2	72.7	72.7
50°	9077.1	7223.7	844.5	287.8	221.4	155.0	110.7	82.2	66.4	53.8	50.6
52.5°	9851.9	7558.9	581.9	253.0	189.8	126.5	91.7	66.4	50.6	41.1	41.1
55°	10645.8	7729.7	430.1	218.2	164.5	107.5	75.9	60.1	44.3	34.8	31.6
57.5°	11297.3	7802.5	328.9	189.8	139.2	85.4	66.4	50.6	38.0	28.5	25.3
60°	11853.9	7767.7	256.2	158.1	110.7	72.7	56.9	41.1	31.6	22.1	19.0
62.5°	12179.7	7558.9	202.4	136.0	88.6	63.3	47.4	34.8	22.1	15.8	12.7
65°	12186.0	7116.2	158.1	101.2	66.4	53.8	41.1	28.5	15.8	6.3	3.2
67.5°	11313.1	6157.9	126.5	79.1	53.8	41.1	31.6	22.1	6.3	0.0	0.0
70°	8849.3	4658.7	104.4	63.3	44.3	34.8	22.1	12.7	3.2	0.0	0.0
72.5°	5639.2	2789.5	85.4	50.6	38.0	25.3	15.8	9.5	0.0	0.0	0.0
75°	2359.4	860.3	66.4	44.3	28.5	19.0	12.7	3.2	0.0	0.0	0.0
77.5°	607.2	272.0	53.8	38.0	28.5	15.8	9.5	3.2	0.0	0.0	0.0
80°	180.3	101.2	44.3	31.6	22.1	12.7	6.3	3.2	0.0	0.0	0.0
82.5°	82.2	60.1	38.0	28.5	19.0	12.7	6.3	0.0	0.0	0.0	0.0
85°	31.6	19.0	19.0	15.8	15.8	9.5	3.2	0.0	0.0	0.0	0.0
87.5°	12.7	6.3	6.3	6.3	3.2	3.2	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)