

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: P483676

Luminaire Tested: **IFLD-M-SA4B-750-U-T4W-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483676  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

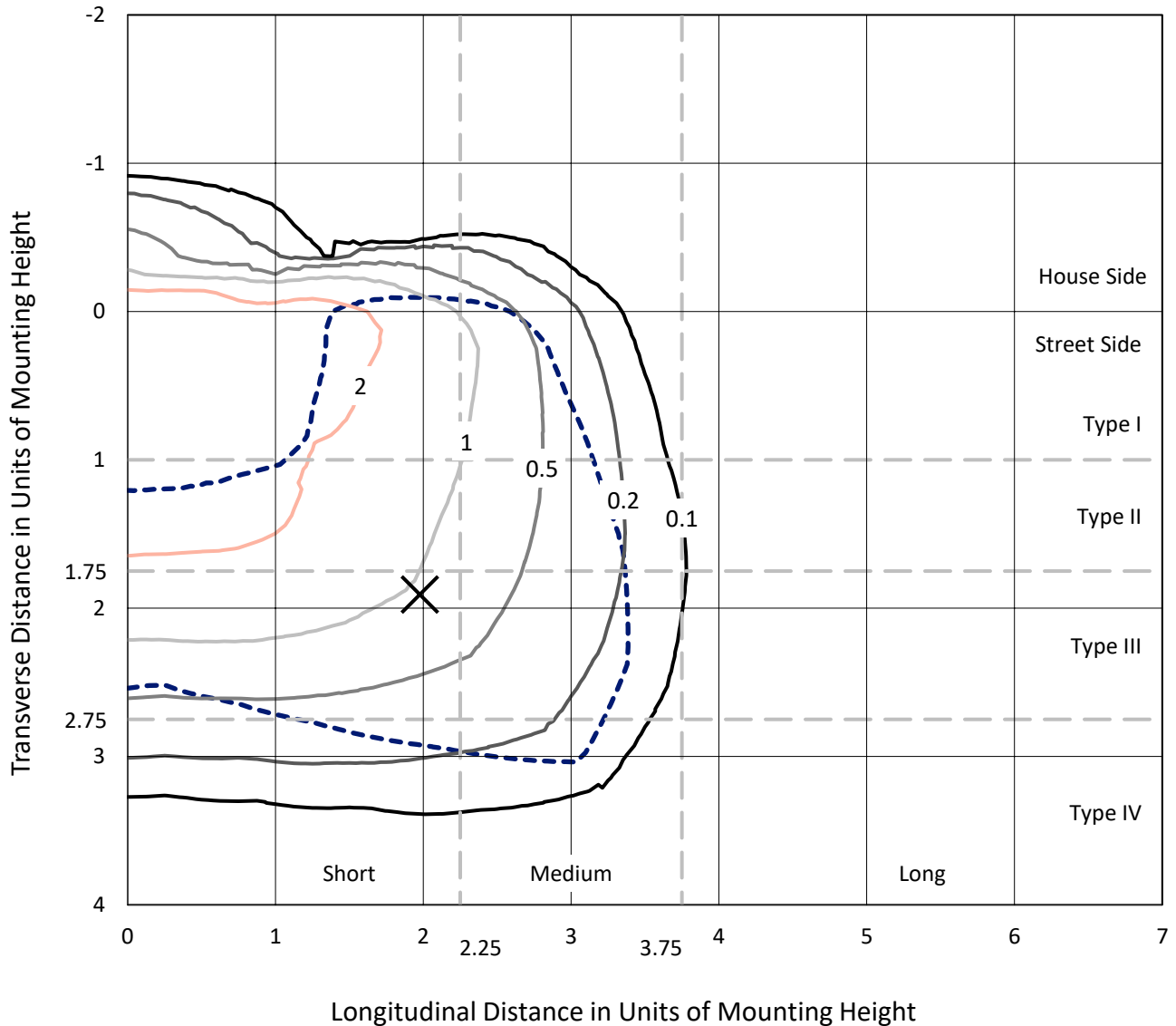
Lumens per Lamp: N/A  
Luminaire Lumens: 17237.7 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

Input Watts (W): 166.1  
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

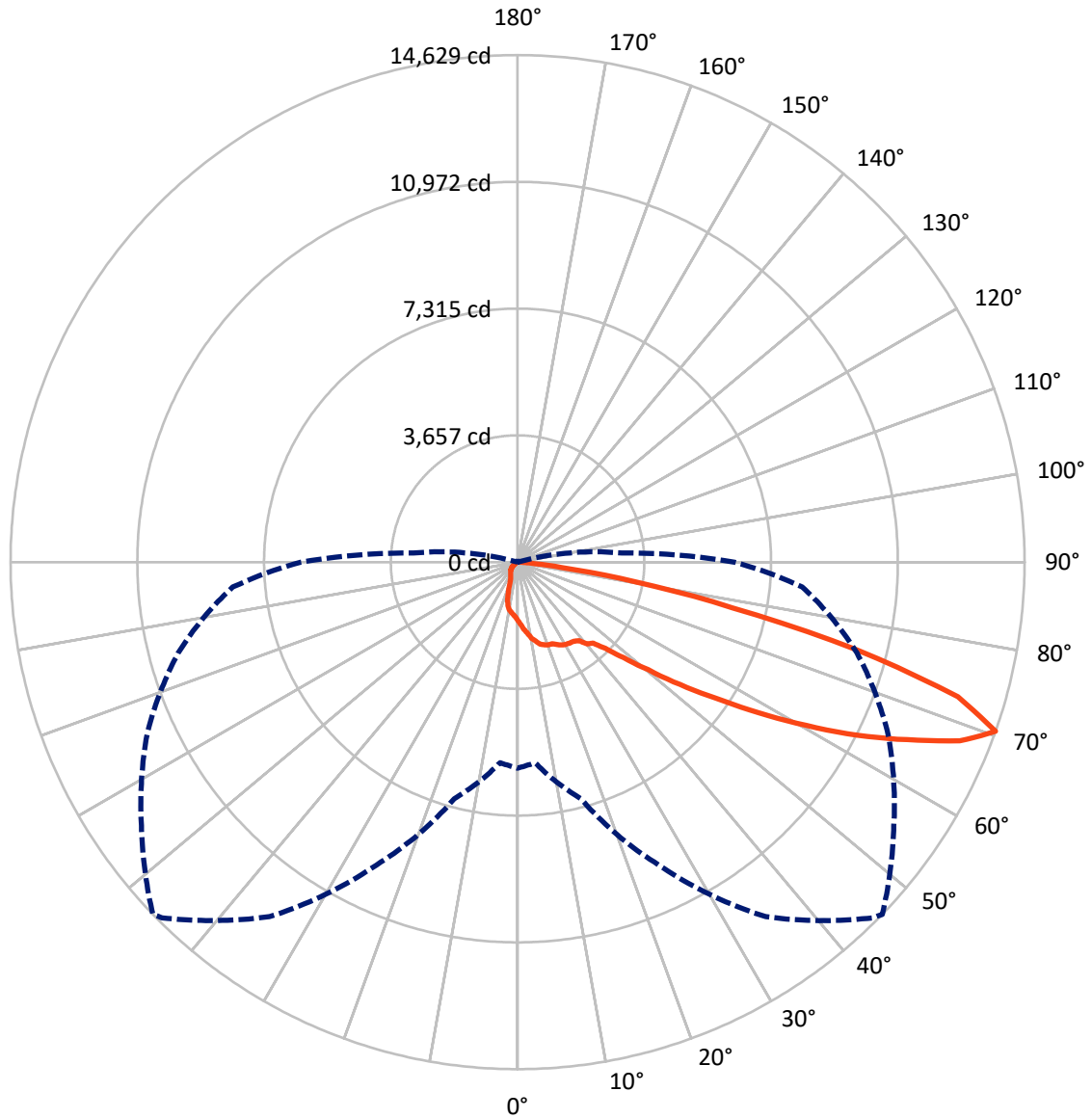
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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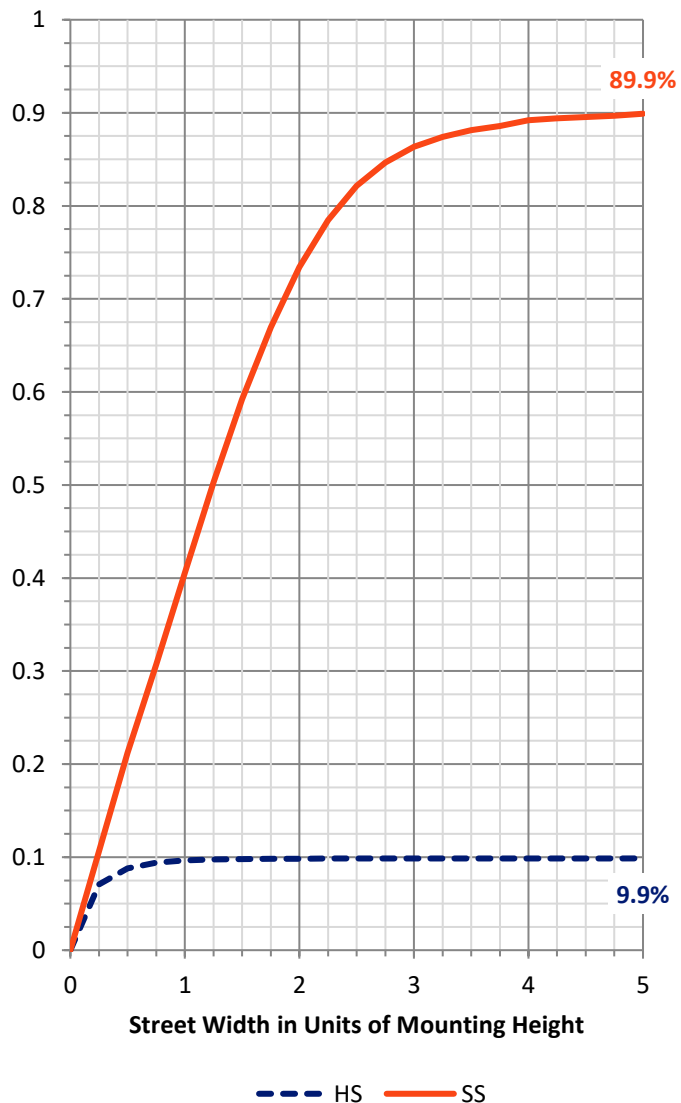
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1715.2	0.0	1715.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	15522.5	0.0	15522.5
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	17237.7	0.0	17237.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.7	1.0
10°-20°	509.6	3.0
20°-30°	816.2	4.7
30°-40°	1165.0	6.8
40°-50°	2011.7	11.7
50°-60°	3851.5	22.3
60°-70°	5703.5	33.1
70°-80°	2824.9	16.4
80°-90°	186.7	1.1
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°	17237.7	100.0
0°-180°	17237.7	100.0

**Coefficient of Utilization**



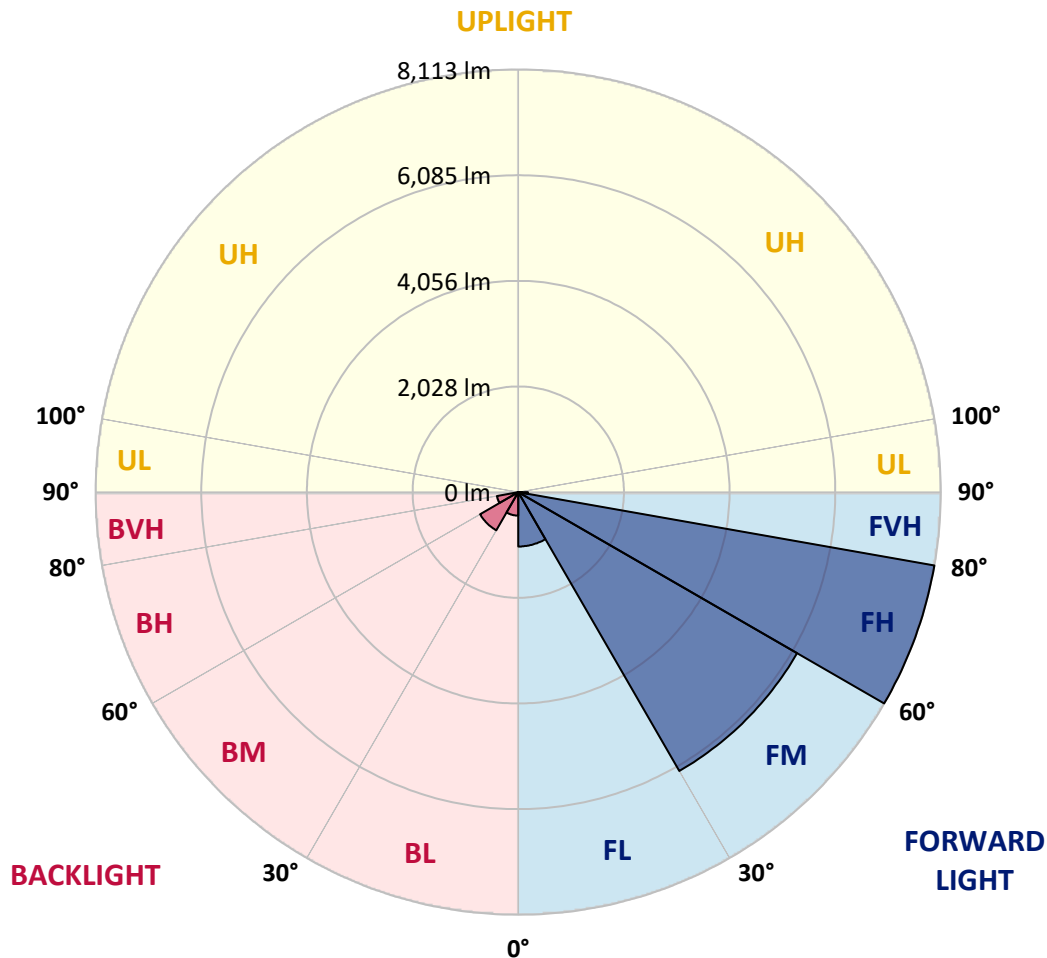
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 CATALOG NUMBER: IFLD-M-SA4B-750-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.9	6.1			
FM (30°-60°)	6181.4	35.9			
FH (60°-80°)	8112.9	47.1			G4/12000
FVH (80°-90°)	184.3	1.1			G2/225
BL (0°-30°)	450.6	2.6	B1/500		
BM (30°-60°)	846.8	4.9	B1/1000		
BH (60°-80°)	415.4	2.4	B1/500		G1/500
BVH (80°-90°)	2.4	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1888.2	1875.8	1856.0	1848.5	1828.7	1818.7	1803.9	1796.4	1769.1	1741.8	1724.5
5°	2119.0	2089.2	2099.1	2069.3	2004.8	1952.7	1950.2	1893.2	1831.2	1781.5	1714.5
7.5°	2352.2	2327.4	2290.2	2248.0	2176.0	2099.1	2076.8	2022.2	1935.4	1848.5	1759.2
10°	2528.4	2511.0	2478.8	2419.2	2320.0	2233.1	2235.6	2143.8	2052.0	1952.7	1831.2
12.5°	2637.6	2645.0	2597.9	2538.3	2451.5	2342.3	2339.8	2277.8	2173.6	2069.3	1925.4
15°	2746.7	2774.0	2702.1	2632.6	2520.9	2441.5	2456.4	2382.0	2280.3	2161.2	2002.4
17.5°	2764.1	2771.5	2756.7	2654.9	2573.0	2506.0	2508.5	2458.9	2382.0	2253.0	2116.5
20°	2734.3	2729.4	2712.0	2637.6	2583.0	2543.3	2545.7	2533.3	2491.2	2386.9	2200.9
22.5°	2647.5	2647.5	2625.1	2575.5	2550.7	2587.9	2558.2	2605.3	2560.6	2498.6	2344.8
25°	2578.0	2605.3	2592.9	2560.6	2570.6	2620.2	2635.1	2679.7	2672.3	2595.4	2444.0
27.5°	2652.4	2620.2	2627.6	2590.4	2627.6	2702.1	2709.5	2741.8	2739.3	2677.3	2533.3
30°	2702.1	2731.8	2674.8	2592.9	2632.6	2759.1	2754.2	2796.4	2816.2	2741.8	2617.7
32.5°	2860.9	2836.1	2788.9	2679.7	2684.7	2756.7	2779.0	2833.6	2846.0	2801.3	2699.6
35°	3185.9	3148.7	2942.7	2779.0	2754.2	2788.9	2803.8	2910.5	2932.8	2883.2	2786.4
37.5°	3687.1	3602.8	3354.6	2992.4	2880.7	2873.3	2873.3	3014.7	3099.1	2984.9	2915.5
40°	4404.2	4285.1	4017.1	3386.9	3047.0	3076.7	3106.5	3183.4	3173.5	3099.1	3084.2
42.5°	5317.3	5225.5	4935.2	4049.4	3364.6	3215.7	3190.9	3295.1	3451.4	3421.6	3411.7
45°	6079.0	6084.0	5897.9	4957.5	3912.9	3535.8	3553.1	3632.5	3895.5	3873.2	3870.7
47.5°	6634.8	6565.3	6538.1	5833.4	4711.9	4143.7	4118.8	4173.4	4515.8	4657.3	4721.8
50°	7141.0	7093.8	7029.3	6684.4	5672.1	4905.4	4880.6	4885.5	5409.1	5607.6	5766.4
52.5°	7768.7	7828.3	7614.9	7404.0	6915.2	5895.4	5868.1	5771.4	6421.4	6694.4	6882.9
55°	8542.9	8431.2	8190.6	8299.7	8103.7	6964.8	6915.2	6801.1	7575.2	7689.3	7887.8
57.5°	8714.1	8629.7	8877.9	9264.9	9453.5	8220.3	8200.5	7994.5	8545.4	8441.2	9001.9
60°	9140.9	9163.2	9508.1	10277.3	10604.8	9669.4	9572.6	9210.3	9485.8	9505.6	10103.6
62.5°	9580.0	9527.9	10299.6	11039.0	11542.7	11041.5	11009.2	10289.7	10602.3	10349.2	11140.7
65°	9257.5	9336.9	10441.0	11679.2	12758.5	12383.8	12356.5	11329.3	11500.5	11185.4	11562.6
67.5°	8111.2	7949.9	9495.7	11386.4	13383.8	13790.7	13760.9	12463.2	12006.7	11180.4	10686.7
70°	5945.0	5806.1	7066.6	9642.1	12488.1	14510.3	14629.4	13252.3	11800.7	10138.3	8245.1
72.5°	2913.0	2915.5	3960.0	6538.1	9880.3	13225.0	13284.5	12150.6	10138.3	7473.5	4669.7
75°	861.0	870.9	1466.4	3205.8	6386.7	10044.0	10111.0	9222.7	7026.9	3860.8	1593.0
77.5°	315.1	315.1	486.3	1203.4	3185.9	6339.6	6334.6	5662.2	3558.1	1307.6	372.2
80°	163.8	171.2	253.1	491.3	1379.6	3302.5	3426.6	2771.5	1352.3	550.8	109.2
82.5°	67.0	74.4	138.9	253.1	662.5	1158.7	1267.9	1086.8	588.1	384.6	49.6
85°	19.8	22.3	67.0	141.4	260.5	290.3	322.6	364.7	369.7	297.7	22.3
87.5°	2.5	2.5	27.3	47.1	57.1	62.0	72.0	72.0	188.6	208.4	12.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483676

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2	1692.2
2.5°	1704.6	1692.2	1672.4	1627.7	1617.8	1585.5	1583.0	1553.3	1563.2	1543.3	1535.9
5°	1692.2	1664.9	1610.3	1575.6	1540.8	1518.5	1503.6	1491.2	1488.7	1478.8	1473.9
7.5°	1714.5	1677.3	1593.0	1538.4	1478.8	1459.0	1426.7	1424.2	1406.9	1389.5	1389.5
10°	1789.0	1722.0	1630.2	1538.4	1461.4	1396.9	1322.5	1267.9	1248.1	1203.4	1208.4
12.5°	1848.5	1789.0	1655.0	1560.7	1444.1	1297.7	1133.9	1007.4	947.8	890.8	913.1
15°	1932.9	1846.0	1702.1	1565.7	1377.1	1124.0	856.0	714.6	660.0	647.6	645.1
17.5°	2024.7	1932.9	1761.7	1553.3	1240.6	868.4	630.2	548.4	558.3	573.2	570.7
20°	2126.4	2014.8	1806.3	1511.1	1024.7	630.2	516.1	513.6	528.5	550.8	555.8
22.5°	2233.1	2136.3	1860.9	1384.5	764.2	506.2	496.2	496.2	506.2	533.5	528.5
25°	2352.2	2223.2	1888.2	1188.5	548.4	466.5	471.4	481.4	486.3	508.7	511.1
27.5°	2444.0	2320.0	1895.7	952.8	446.6	431.7	444.1	456.5	464.0	481.4	488.8
30°	2528.4	2441.5	1856.0	709.6	409.4	402.0	406.9	424.3	439.2	454.1	454.1
32.5°	2635.1	2511.0	1764.2	503.7	387.1	374.7	372.2	379.6	397.0	414.4	414.4
35°	2744.2	2627.6	1617.8	404.4	367.2	349.9	339.9	332.5	339.9	352.3	362.3
37.5°	2903.0	2803.8	1434.2	372.2	352.3	327.5	307.7	290.3	277.9	275.4	282.9
40°	3128.8	3002.3	1198.4	349.9	335.0	305.2	275.4	245.6	218.3	201.0	203.5
42.5°	3471.2	3295.1	942.9	337.4	322.6	280.4	238.2	196.0	161.3	143.9	143.9
45°	3960.0	3682.2	692.3	325.0	307.7	250.6	196.0	146.4	111.7	101.7	104.2
47.5°	4697.0	4148.6	496.2	305.2	287.8	218.3	153.8	104.2	81.9	76.9	79.4
50°	5659.7	4701.9	387.1	282.9	263.0	183.6	114.1	76.9	64.5	62.0	64.5
52.5°	6669.6	5260.2	339.9	263.0	225.8	146.4	84.4	62.0	54.6	52.1	54.6
55°	7533.0	5620.0	295.3	233.2	181.1	109.2	67.0	54.6	47.1	39.7	39.7
57.5°	8406.4	5801.1	233.2	193.5	134.0	81.9	57.1	47.1	39.7	32.3	29.8
60°	9116.1	5930.1	166.2	143.9	94.3	64.5	49.6	42.2	32.3	24.8	22.3
62.5°	9582.5	5560.4	121.6	109.2	69.5	54.6	42.2	34.7	24.8	17.4	17.4
65°	9351.8	5049.3	94.3	76.9	52.1	42.2	34.7	24.8	17.4	9.9	7.4
67.5°	8391.5	4113.9	76.9	57.1	39.7	32.3	27.3	19.8	9.9	2.5	2.5
70°	6260.2	3014.7	62.0	42.2	32.3	24.8	19.8	12.4	5.0	2.5	0.0
72.5°	3424.1	1650.0	49.6	34.7	24.8	19.8	14.9	9.9	5.0	0.0	0.0
75°	1131.4	439.2	37.2	24.8	14.9	12.4	9.9	7.4	2.5	0.0	0.0
77.5°	272.9	114.1	29.8	22.3	12.4	7.4	5.0	2.5	2.5	0.0	0.0
80°	84.4	47.1	22.3	14.9	9.9	7.4	2.5	0.0	0.0	0.0	0.0
82.5°	34.7	22.3	9.9	9.9	7.4	2.5	0.0	0.0	0.0	0.0	0.0
85°	17.4	12.4	7.4	5.0	5.0	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	12.4	5.0	2.5	2.5	0.0	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)