

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: P482857

Luminaire Tested: **IFLD-M-SA4B-740-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482857
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

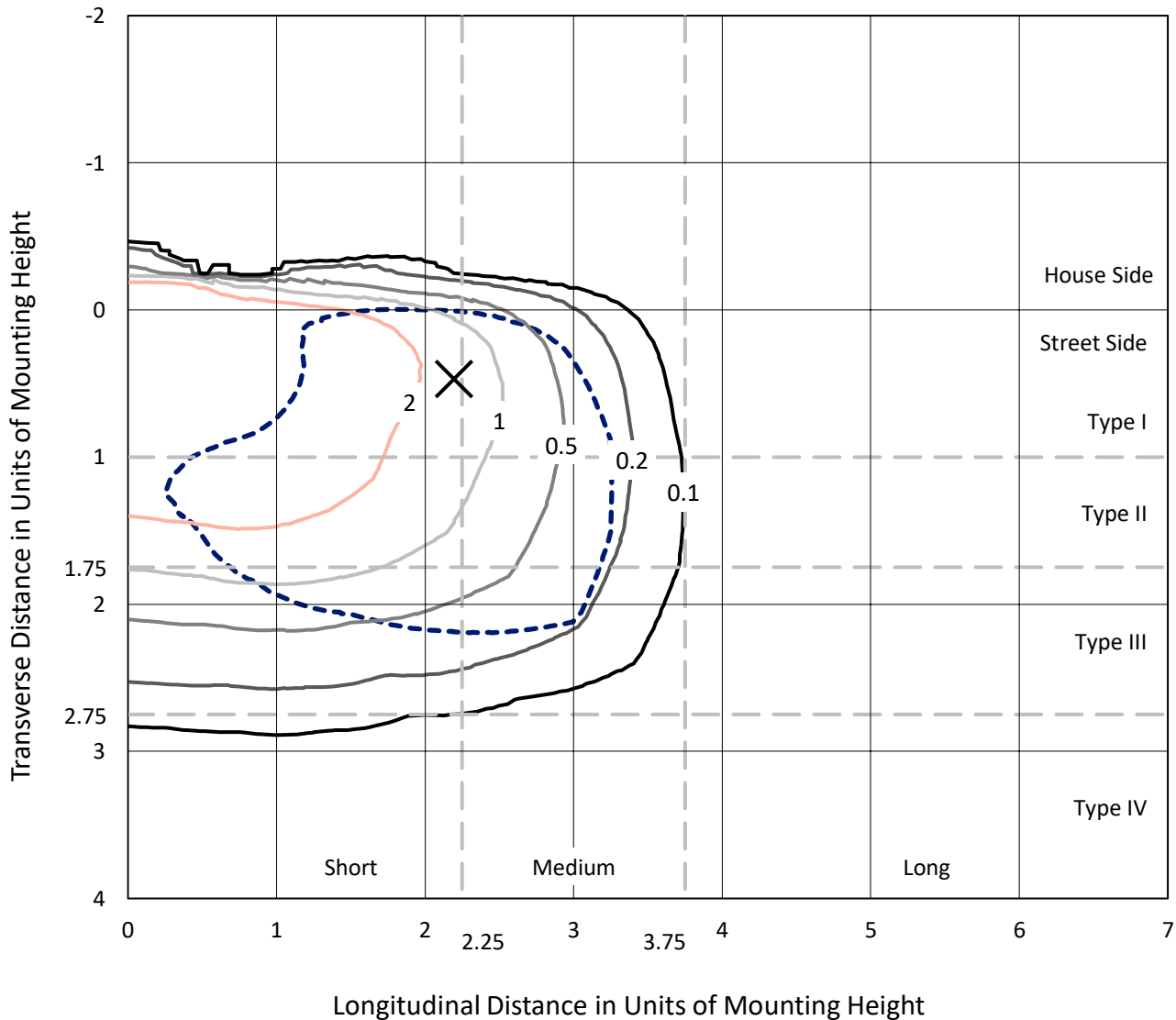
Lumens per Lamp: N/A
Luminaire Lumens: 16371.7 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (A_{in}): 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

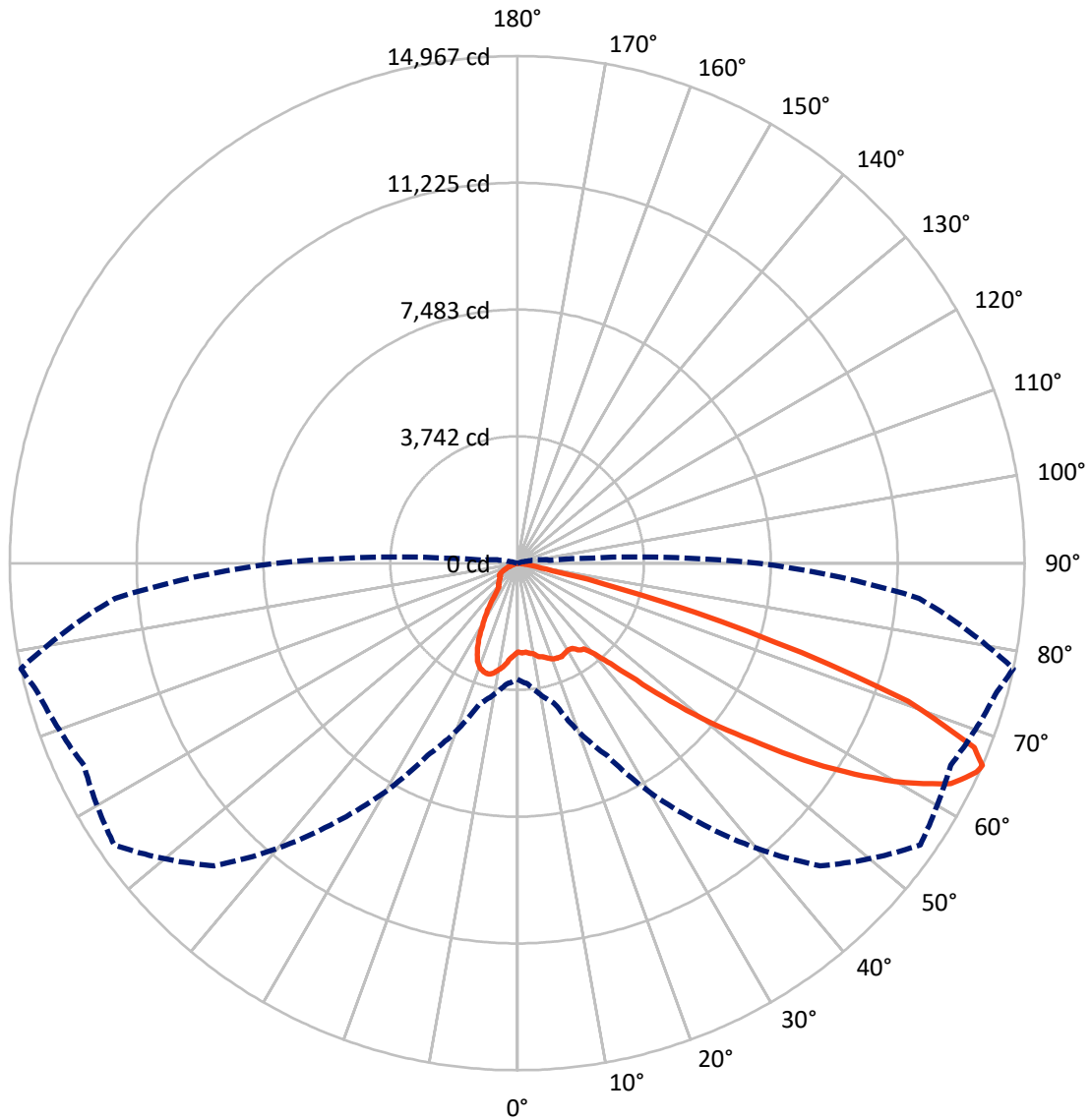
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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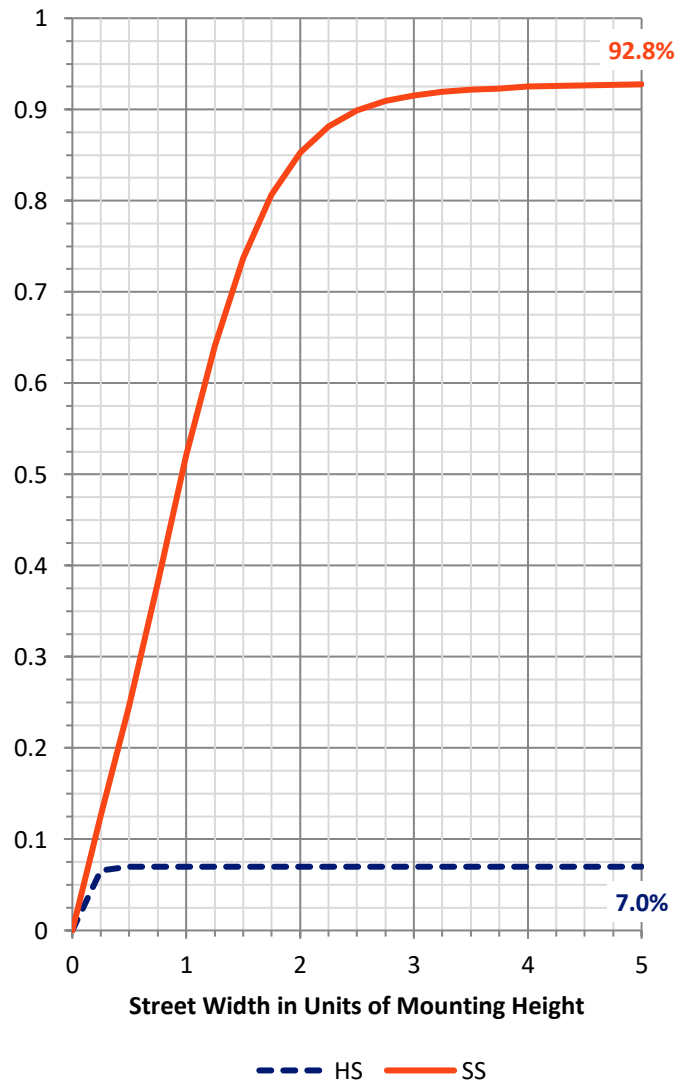
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.0	0.0	1151.0
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	15220.7	0.0	15220.7
	% Fixture	93.0	0.0	93.0
Total	Lumens	16371.7	0.0	16371.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	1.5
10°-20°	541.5	3.3
20°-30°	774.0	4.7
30°-40°	1324.9	8.1
40°-50°	2391.3	14.6
50°-60°	4089.5	25.0
60°-70°	5033.4	30.7
70°-80°	1902.9	11.6
80°-90°	74.3	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°	16371.7	100.0
0°-180°	16371.7	100.0

Coefficient of Utilization

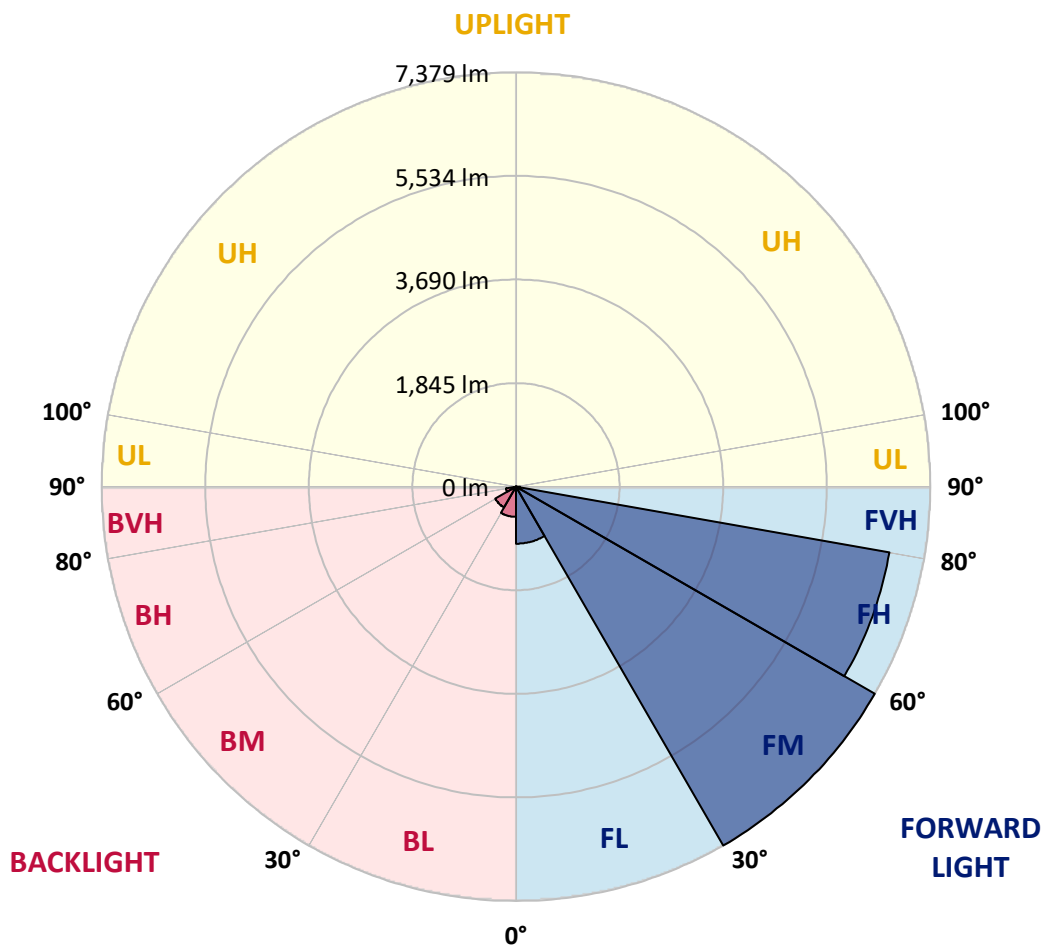


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.4	6.2			
FM (30°-60°)	7379.1	45.1			
FH (60°-80°)	6753.9	41.3			G3/7500
FVH (80°-90°)	71.3	0.4			G1/100
BL (0°-30°)	539.1	3.3	B2/1000		
BM (30°-60°)	426.6	2.6	B1/1000		
BH (60°-80°)	182.4	1.1	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: 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°	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2
2.5°	2412.0	2389.7	2412.0	2444.1	2461.4	2476.3	2528.2	2572.7	2619.7	2651.9	2642.0
5°	2236.3	2278.4	2283.3	2293.2	2320.4	2409.5	2439.2	2515.9	2632.1	2642.0	2686.5
7.5°	2097.8	2085.4	2117.6	2181.9	2251.2	2303.1	2389.7	2523.3	2644.5	2686.5	2773.1
10°	1897.4	1922.1	1956.8	2021.1	2105.2	2233.8	2387.2	2535.6	2708.8	2723.6	2884.4
12.5°	1788.6	1763.8	1818.2	1885.0	2028.5	2147.3	2335.3	2513.4	2748.4	2830.0	3015.6
15°	1699.5	1711.9	1763.8	1808.3	1927.1	2078.0	2298.2	2567.8	2815.2	2872.1	3154.1
17.5°	1662.4	1655.0	1694.6	1739.1	1885.0	2055.7	2283.3	2570.3	2874.6	2948.8	3248.1
20°	1679.7	1694.6	1682.2	1724.2	1815.8	1988.9	2305.6	2617.3	2919.1	3020.5	3349.5
22.5°	1951.8	1932.0	1833.1	1753.9	1758.9	1961.7	2288.3	2647.0	2958.7	3040.3	3418.8
25°	2661.8	2555.4	2310.5	2006.2	1805.9	1887.5	2268.5	2637.1	2951.2	3052.7	3460.8
27.5°	3376.7	3285.2	3045.2	2572.7	1996.4	1857.8	2199.2	2644.5	2914.1	3008.1	3391.6
30°	4131.2	4180.7	3824.5	3262.9	2496.1	2021.1	2154.7	2604.9	2889.4	2968.6	3406.4
32.5°	4905.5	4885.7	4670.5	4062.0	3211.0	2382.3	2226.4	2644.5	2921.6	2998.2	3493.0
35°	5511.6	5442.4	5224.7	4675.5	3802.2	2926.5	2473.8	2832.5	3062.6	3154.1	3616.7
37.5°	5810.9	5840.6	5714.5	5237.0	4450.4	3431.2	2783.0	2832.5	3107.1	3213.5	3817.1
40°	6043.5	6132.5	6085.5	5932.2	5093.5	4000.1	3124.4	3008.1	3332.2	3532.6	4193.1
42.5°	6323.0	6281.0	6558.0	6417.0	5934.6	4717.5	3723.1	3426.2	3864.1	4057.0	4757.1
45°	6471.4	6632.2	6842.5	7023.1	6713.9	5613.0	4504.8	4165.9	4677.9	4922.9	5595.7
47.5°	6852.4	6916.7	7258.1	7485.7	7347.2	6637.2	5692.2	5246.9	5702.1	6088.0	6555.6
50°	7075.1	6988.5	7465.9	7812.2	7891.4	7485.7	6755.9	6409.6	6919.2	7411.5	7453.5
52.5°	6879.6	7127.0	7604.4	8225.4	8445.5	8242.7	8005.2	7854.3	8213.0	8668.2	8465.3
55°	6194.4	6362.6	7525.3	8678.1	9388.1	9294.1	9514.2	9415.3	9776.4	10258.8	9647.8
57.5°	5642.7	5853.0	6874.7	8913.1	10266.3	10543.3	10820.4	10758.5	11193.9	11750.5	10649.7
60°	5298.9	5420.1	6404.7	8853.7	10785.7	11834.6	12460.5	12025.1	12735.1	13160.6	11433.9
62.5°	4702.7	4779.4	5719.4	8067.0	10941.6	12747.5	13808.7	13217.5	13833.5	14353.0	11997.9
65°	3770.1	3977.9	4754.6	6889.5	9912.5	12915.7	14649.8	13954.7	14550.9	14892.3	12168.6
66°	3431.2	3582.1	4294.5	6266.1	9326.2	12636.1	14508.8	14108.1	14654.8	14966.5	11906.4
67.5°	2847.3	2978.5	3544.9	5378.0	8126.4	12020.2	14607.8	14004.2	14733.9	14543.4	11555.1
70°	1885.0	1969.1	2424.3	3636.5	5660.0	9833.3	13549.0	13192.8	12952.8	12237.9	9034.3
72.5°	880.7	1001.9	1514.0	2204.2	3319.8	6879.6	11048.0	10570.5	9083.8	7940.9	5699.6
75°	398.3	452.7	831.2	1264.1	1489.2	3564.7	7127.0	6436.8	4522.1	3755.2	2496.1
77.5°	215.2	244.9	405.7	601.1	541.8	1249.3	3527.6	2933.9	1424.9	1043.9	724.8
80°	165.7	195.4	338.9	343.9	200.4	324.1	1311.1	907.9	356.2	269.6	173.2
82.5°	86.6	123.7	267.2	222.6	101.4	131.1	405.7	252.3	111.3	89.1	74.2
85°	34.6	54.4	150.9	148.4	59.4	44.5	113.8	76.7	44.5	37.1	34.6
87.5°	2.5	2.5	81.6	56.9	37.1	12.4	17.3	17.3	22.3	19.8	24.7
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°	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2	2622.2
2.5°	2686.5	2716.2	2721.2	2802.8	2820.1	2802.8	2847.3	2839.9	2859.7	2844.9	2817.7
5°	2748.4	2790.4	2872.1	2933.9	2933.9	2884.4	2844.9	2792.9	2716.2	2696.4	2681.6
7.5°	2854.8	2988.3	3062.6	3023.0	2943.8	2758.3	2501.0	2313.0	2154.7	2095.3	2068.1
10°	3042.8	3117.0	3203.6	3042.8	2713.8	2320.4	1887.5	1603.0	1380.4	1330.9	1293.8
12.5°	3164.0	3282.7	3332.2	2933.9	2288.3	1702.0	1232.0	910.4	754.5	635.8	616.0
15°	3322.3	3458.4	3356.9	2639.5	1803.4	1115.7	638.2	398.3	324.1	304.3	304.3
17.5°	3431.2	3579.6	3255.5	2273.4	1279.0	593.7	316.6	274.6	269.6	272.1	267.2
20°	3621.6	3710.7	3102.1	1847.9	764.4	304.3	254.8	244.9	240.0	247.4	242.4
22.5°	3693.4	3775.0	2852.3	1338.3	343.9	202.9	190.5	183.1	188.0	185.5	183.1
25°	3688.4	3730.5	2441.6	766.9	101.4	79.2	71.7	71.7	66.8	69.3	66.8
27.5°	3725.5	3621.6	1981.5	227.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	3745.3	3446.0	1410.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3755.2	3354.5	907.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3831.9	3171.4	388.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3883.9	2936.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4099.1	2862.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4378.6	2723.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4767.0	2518.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5281.6	2397.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5665.0	2206.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6152.3	2092.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6731.2	2097.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7258.1	2063.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7527.8	1763.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7470.9	1427.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7273.0	1120.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7136.9	992.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6723.8	794.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5350.8	544.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3403.9	334.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1568.4	153.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	492.3	94.0	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	128.6	59.4	19.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.8	42.1	17.3	7.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.1	17.3	7.4	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	37.1	9.9	4.9	4.9	2.5	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)