

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: P481765

Luminaire Tested: **IFLD-M-SA4B-760-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481765  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-760-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (64) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

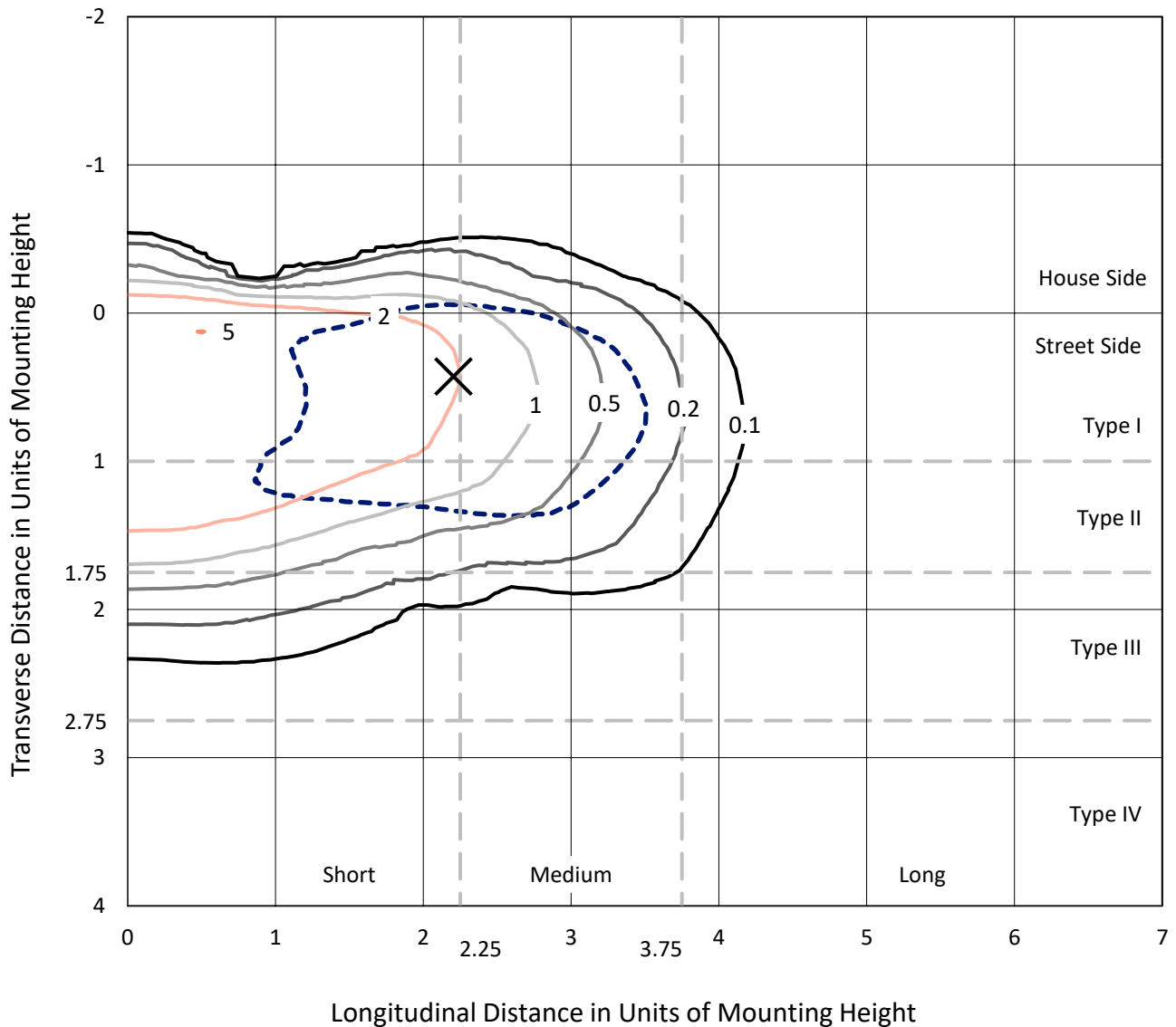
Lumens per Lamp: N/A  
Luminaire Lumens: 16824.2 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

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

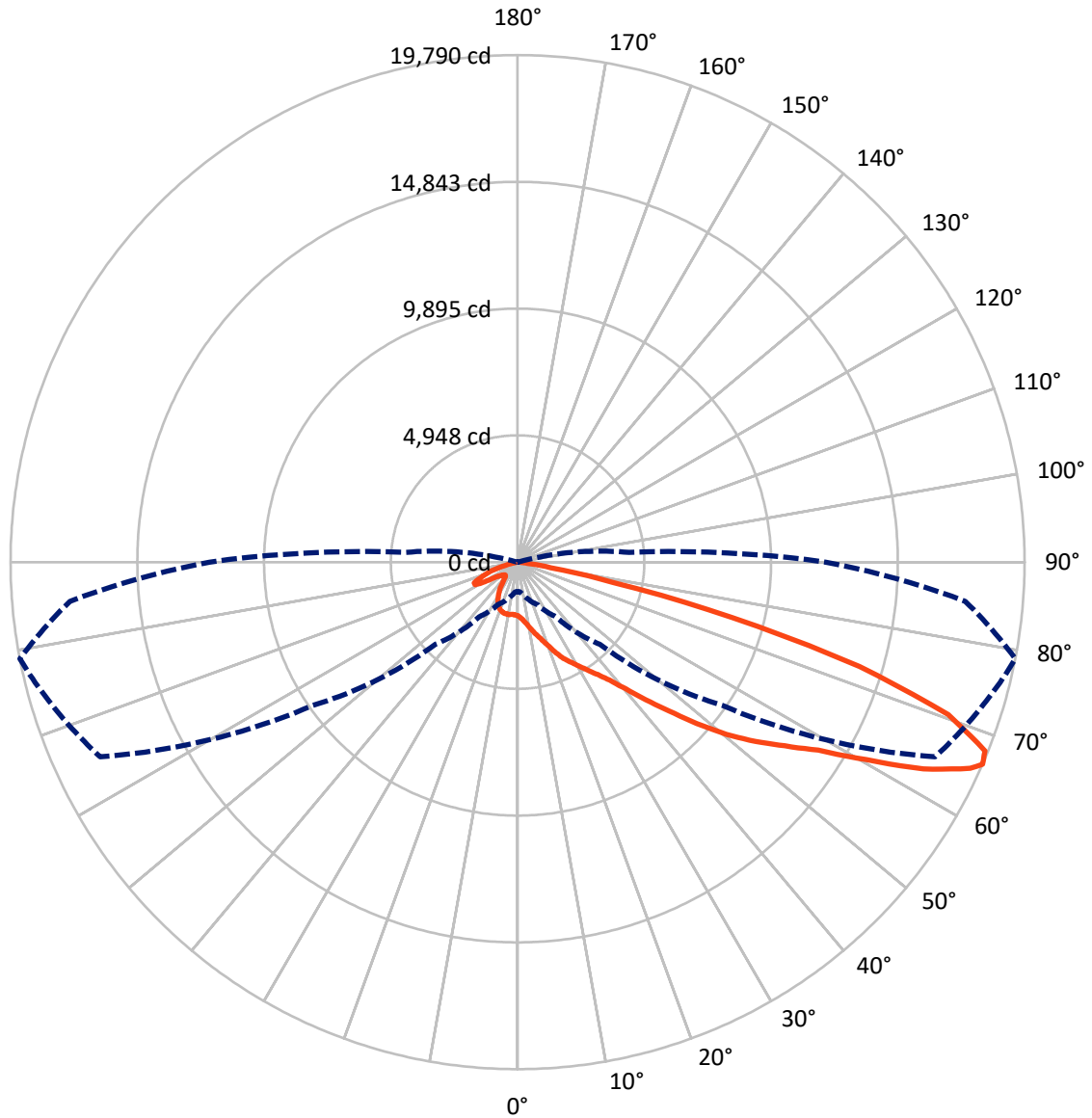
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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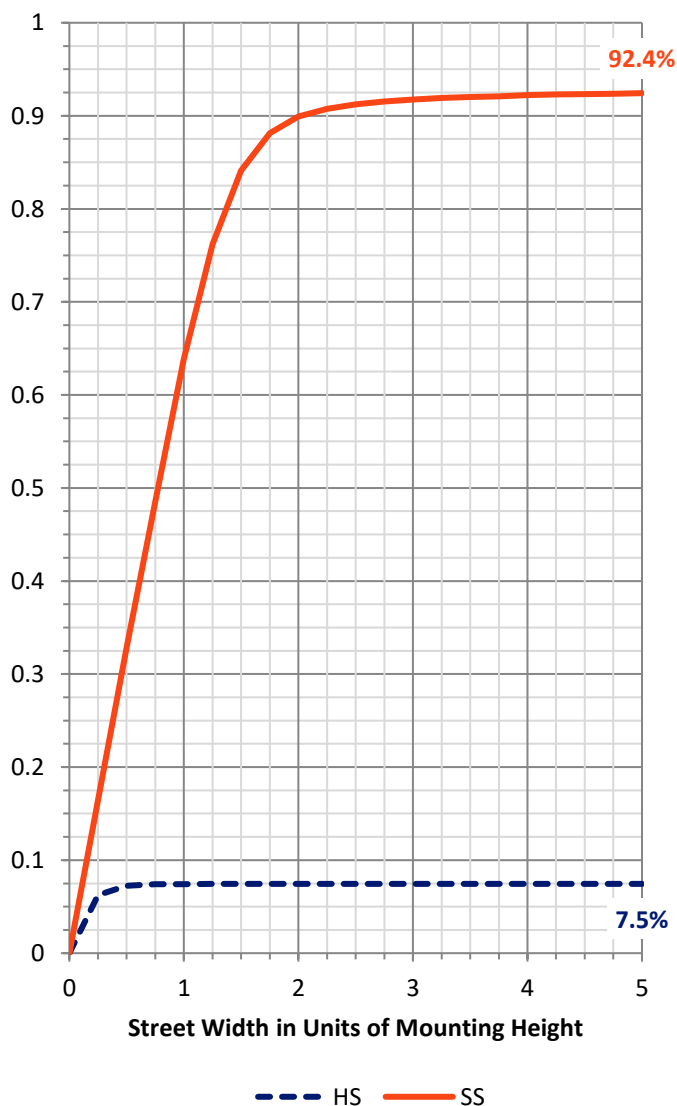
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1263.3	0.0	1263.3
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	15560.9	0.0	15560.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	16824.2	0.0	16824.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	197.9	1.2
10°-20°	544.8	3.2
20°-30°	905.0	5.4
30°-40°	1554.5	9.2
40°-50°	2816.2	16.7
50°-60°	4451.6	26.5
60°-70°	4529.8	26.9
70°-80°	1727.4	10.3
80°-90°	96.8	0.6
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°	16824.2	100.0
0°-180°	16824.2	100.0

**Coefficient of Utilization**

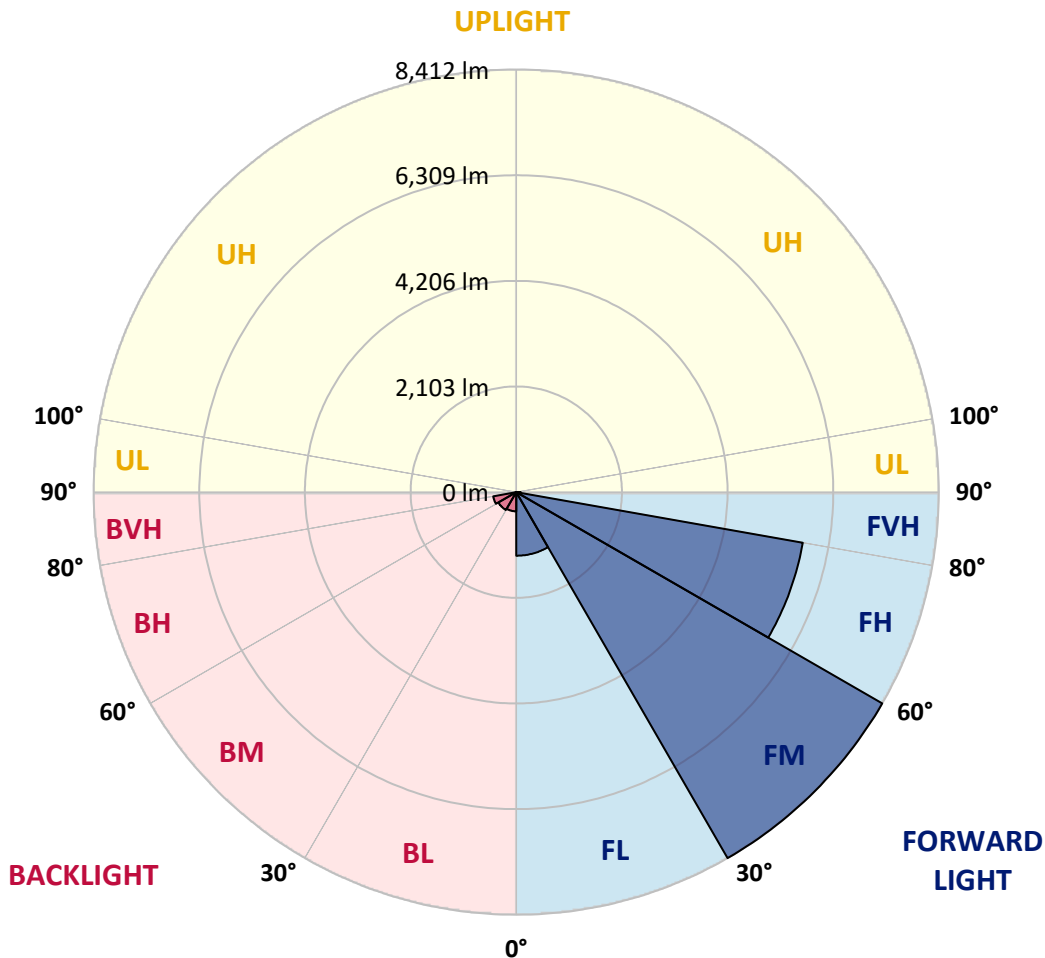


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.7	7.5			
FM (30°-60°)	8411.7	50.0			
FH (60°-80°)	5791.6	34.4			G3/7500
FVH (80°-90°)	91.9	0.5			G1/100
BL (0°-30°)	382.0	2.3	B1/500		
BM (30°-60°)	410.6	2.4	B1/1000		
BH (60°-80°)	465.7	2.8	B1/500		G1/500
BVH (80°-90°)	5.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1
2.5°	2370.7	2368.1	2357.7	2339.5	2316.2	2308.4	2274.7	2228.0	2202.1	2173.5	2160.6
5°	2534.1	2521.1	2552.2	2539.3	2544.4	2482.2	2440.7	2407.0	2308.4	2269.5	2207.3
7.5°	2570.4	2583.3	2580.8	2601.5	2622.3	2645.6	2617.1	2567.8	2469.2	2412.2	2344.7
10°	2570.4	2565.2	2585.9	2614.5	2674.1	2726.0	2803.8	2739.0	2663.8	2596.3	2474.4
12.5°	2523.7	2515.9	2536.7	2596.3	2702.7	2809.0	2894.6	2956.8	2850.5	2796.0	2637.8
15°	2381.0	2373.3	2458.8	2565.2	2705.3	2879.0	3058.0	3159.2	3086.5	3000.9	2824.6
17.5°	2204.7	2215.0	2305.8	2482.2	2705.3	2912.7	3141.0	3361.5	3351.1	3242.2	3058.0
20°	2145.0	2152.8	2243.6	2370.7	2624.8	2936.1	3270.7	3581.9	3644.2	3514.5	3273.3
22.5°	2259.1	2251.4	2259.1	2336.9	2570.4	2915.3	3356.3	3833.5	3945.1	3843.9	3556.0
25°	2648.2	2643.0	2578.2	2458.8	2539.3	2868.7	3400.4	3999.5	4256.3	4162.9	3784.2
27.5°	3218.8	3198.1	3096.9	2847.9	2684.5	2897.2	3473.0	4160.3	4528.6	4422.3	3989.1
30°	3830.9	3781.6	3649.4	3338.1	3060.6	3003.5	3514.5	4279.6	4832.1	4697.2	4168.1
32.5°	4253.7	4318.5	4277.0	3960.6	3535.2	3249.9	3581.9	4430.1	5112.2	5024.0	4474.2
35°	4907.3	4982.5	4808.8	4528.6	4100.7	3641.6	3724.6	4552.0	5542.8	5394.9	4759.5
37.5°	5732.1	5789.2	5664.7	5133.0	4681.7	4124.0	4017.7	4806.2	5913.7	5843.7	5125.2
40°	6147.1	6422.1	6245.7	5765.8	5280.8	4798.4	4502.7	5104.4	6559.5	6502.5	5631.0
42.5°	6720.3	6857.8	6767.0	6411.7	5905.9	5519.4	5101.9	5685.4	7342.8	7342.8	6315.7
45°	7327.3	7332.5	7327.3	7036.8	6588.1	6388.3	5911.1	6414.3	8185.8	8279.2	7135.3
47.5°	7825.3	7980.9	7967.9	7794.1	7446.6	7371.4	6720.3	7244.3	9244.0	9407.4	7934.2
50°	8082.0	8255.8	8307.7	8398.5	8382.9	8541.1	7604.8	8206.5	10157.0	10559.0	8961.3
52.5°	8012.0	8025.0	8344.0	8701.9	9272.6	9716.1	8670.8	9298.5	11225.6	11622.5	9755.0
55°	7438.8	7389.5	8045.7	8455.5	9635.7	10434.5	10146.6	10660.2	12058.2	12662.5	10574.6
57.5°	6180.8	6193.8	6800.7	7633.3	9365.9	10719.9	11723.6	12439.5	13225.4	13834.9	11726.2
60°	4266.7	4251.1	4930.7	5892.9	7781.2	10188.1	12631.4	14745.3	14786.8	15650.5	13793.4
62.5°	2399.2	2404.4	2920.5	3742.7	5444.2	8325.8	12587.3	17193.8	17017.4	17774.8	16143.3
65°	1359.1	1392.8	1748.2	2217.6	3260.3	5589.5	10826.2	18169.0	18737.0	19411.4	17569.9
66°	1149.0	1172.4	1475.8	1831.2	2601.5	4533.8	9744.6	17979.7	19276.5	19790.1	17541.3
67.5°	889.6	920.8	1175.0	1452.5	1909.0	3138.4	7843.4	17038.2	19375.1	19676.0	17045.9
70°	609.5	630.3	824.8	1102.3	1304.6	1605.5	4689.4	14086.5	17580.2	17834.4	14815.3
72.5°	428.0	438.3	578.4	835.2	1003.8	918.2	2326.6	10022.1	13453.6	13949.0	11523.9
75°	308.7	319.0	396.8	599.1	783.3	601.7	1066.0	6401.3	8250.6	8639.7	6940.8
77.5°	223.1	236.0	269.7	386.5	568.0	422.8	523.9	3343.3	3890.6	3823.1	2985.4
80°	134.9	147.8	199.7	249.0	415.0	298.3	287.9	1395.4	1379.9	1309.8	938.9
82.5°	62.2	72.6	106.3	168.6	290.5	207.5	137.5	498.0	435.7	399.4	264.6
85°	18.2	23.3	62.2	127.1	147.8	101.2	83.0	171.2	179.0	153.0	88.2
87.5°	0.0	2.6	28.5	31.1	44.1	33.7	31.1	44.1	83.0	67.4	28.5
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°	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1	2093.1
2.5°	2113.9	2095.7	2051.6	1984.2	1924.5	1893.4	1849.3	1810.4	1789.7	1787.1	1784.5
5°	2165.8	2116.5	2010.1	1888.2	1797.4	1698.9	1631.5	1582.2	1535.5	1491.4	1517.3
7.5°	2235.8	2158.0	1984.2	1826.0	1628.9	1501.8	1382.5	1312.4	1270.9	1232.0	1226.8
10°	2344.7	2246.2	1966.0	1680.7	1455.1	1268.3	1146.4	1045.3	988.2	920.8	946.7
12.5°	2492.6	2316.2	1898.6	1548.5	1258.0	1060.8	887.1	723.6	632.9	562.8	565.4
15°	2640.4	2409.6	1836.4	1387.6	1079.0	819.6	565.4	453.9	428.0	412.4	417.6
17.5°	2785.7	2484.8	1740.4	1224.2	874.1	521.3	412.4	389.1	376.1	360.5	360.5
20°	2962.0	2534.1	1621.1	1073.8	601.7	386.5	352.7	337.2	316.4	295.7	298.3
22.5°	3133.2	2575.6	1483.6	881.9	404.6	334.6	295.7	274.9	256.8	236.0	236.0
25°	3304.4	2588.5	1304.6	632.9	326.8	267.2	230.8	202.3	184.2	166.0	168.6
27.5°	3421.1	2508.1	1136.1	404.6	262.0	202.3	160.8	137.5	121.9	103.7	103.7
30°	3488.6	2360.3	954.5	285.3	197.1	137.5	96.0	72.6	57.1	44.1	41.5
32.5°	3556.0	2241.0	749.6	217.9	129.7	72.6	36.3	13.0	0.0	0.0	0.0
35°	3690.9	2106.1	503.2	121.9	44.1	2.6	0.0	0.0	0.0	0.0	0.0
37.5°	3776.5	1919.4	230.8	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3991.7	1826.0	57.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4341.9	1761.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4725.8	1735.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5236.7	1805.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5776.2	1994.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6367.6	2173.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6883.7	2388.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	7833.0	2897.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9537.1	3895.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	11456.5	4637.6	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12159.4	4619.4	49.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12034.9	4365.2	49.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	11389.0	3877.6	44.1	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9780.9	3203.2	44.1	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7456.9	2495.2	41.5	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	4500.1	1328.0	33.7	13.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1792.3	466.9	25.9	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	485.0	140.1	15.6	10.4	7.8	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	127.1	51.9	13.0	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
85°	49.3	20.7	10.4	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0
87.5°	15.6	7.8	7.8	5.2	5.2	2.6	2.6	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)