

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: P478176

Luminaire Tested: **IFLD-M-SA4A-740-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478176  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

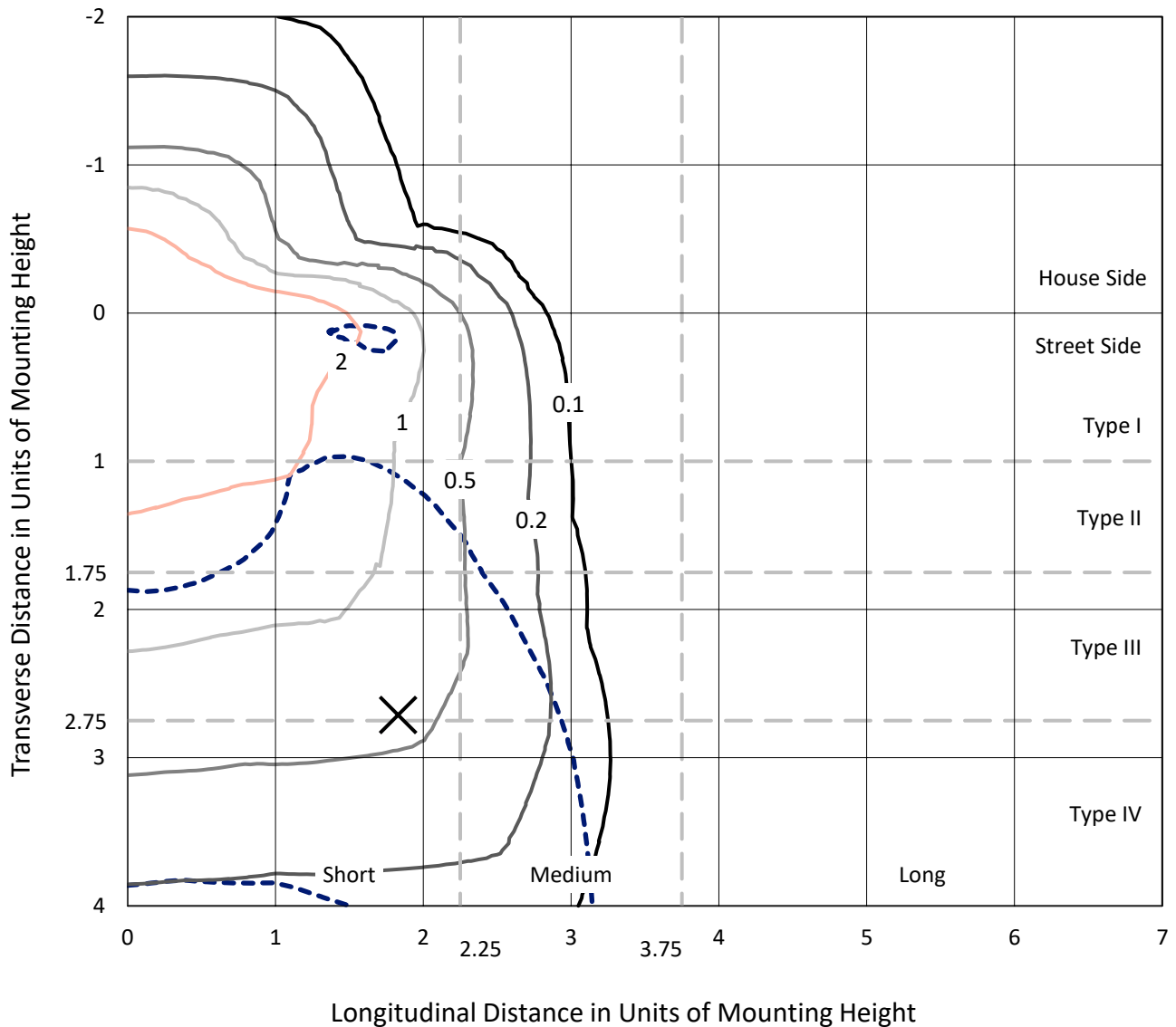
Lumens per Lamp: N/A  
Luminaire Lumens: 18919.6 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.6  
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

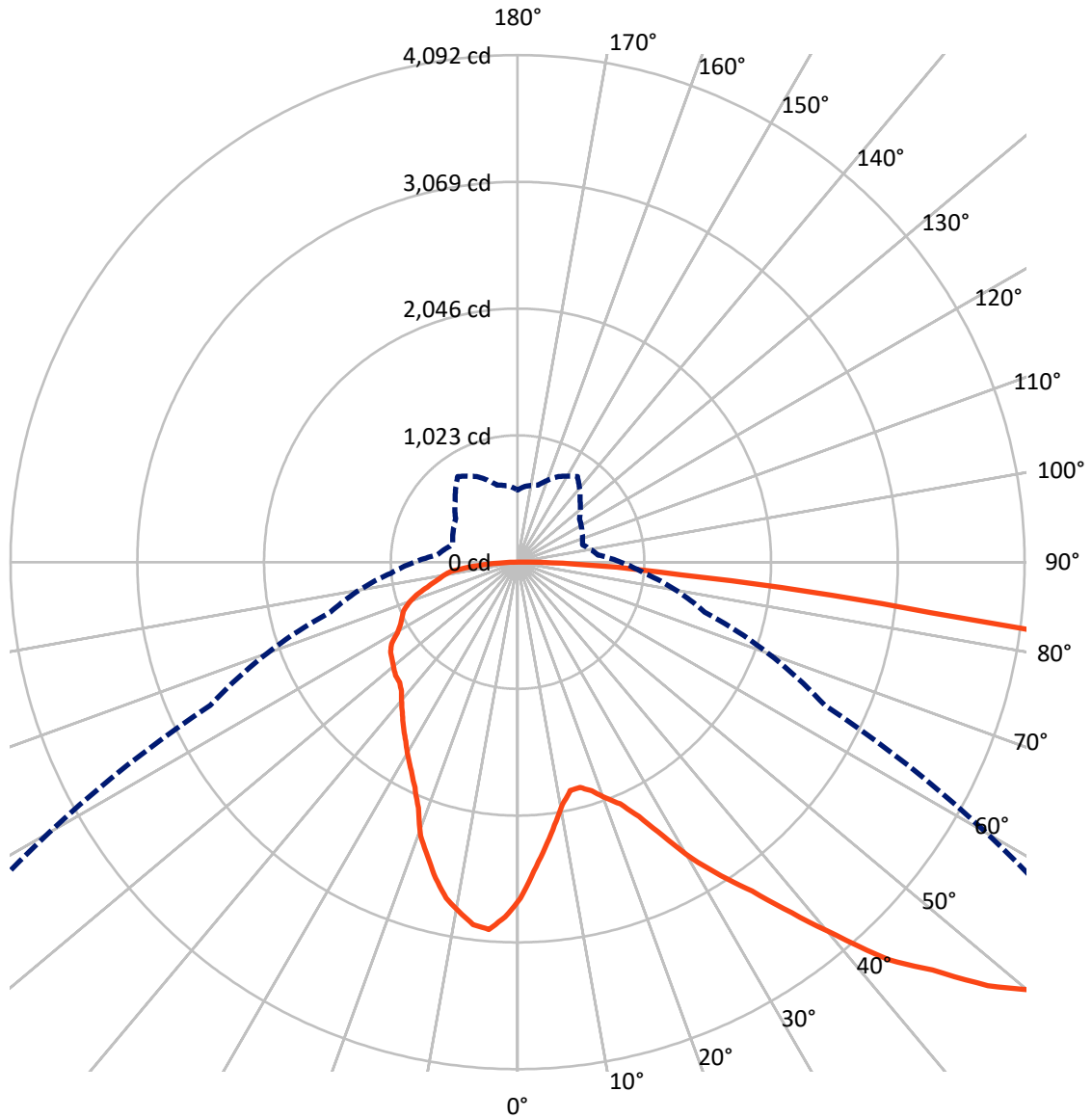
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4086.9	0.0	4086.9
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	14832.8	0.0	14832.8
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	18919.6	0.0	18919.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.3	1.3
10°-20°	700.6	3.7
20°-30°	1153.1	6.1
30°-40°	1724.4	9.1
40°-50°	2556.4	13.5
50°-60°	3684.1	19.5
60°-70°	4701.4	24.8
70°-80°	3658.5	19.3
80°-90°	490.8	2.6
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°	18919.6	100.0
0°-180°	18919.6	100.0

**Coefficient of Utilization**



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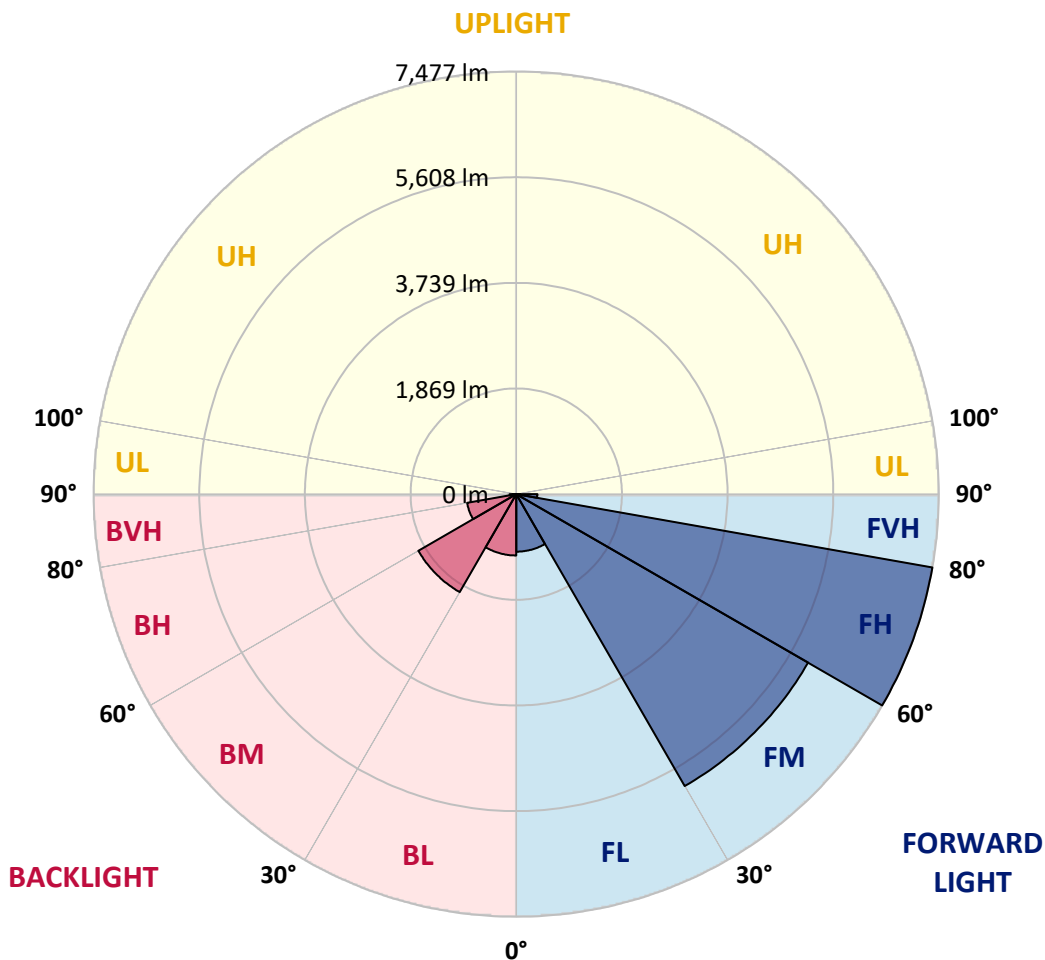
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.2	5.4			
FM (30°-60°)	5963.6	31.5			
FH (60°-80°)	7477.4	39.5			G3/7500
FVH (80°-90°)	373.6	2.0			G3/500
BL (0°-30°)	1085.9	5.7	B3/2500		
BM (30°-60°)	2001.4	10.6	B2/2500		
BH (60°-80°)	882.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	117.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4
2.5°	2430.4	2438.4	2464.4	2470.4	2498.4	2482.4	2516.4	2576.4	2610.4	2660.4	2720.4
5°	2238.4	2204.3	2220.4	2282.4	2314.4	2322.4	2358.4	2460.4	2524.4	2598.4	2710.4
7.5°	2012.3	2006.3	2038.3	2078.3	2142.3	2148.3	2228.4	2318.4	2450.4	2614.4	2746.4
10°	1858.3	1884.3	1902.3	1944.3	1988.3	1988.3	2090.3	2246.4	2396.4	2554.4	2754.4
12.5°	1850.3	1834.3	1838.3	1860.3	1892.3	1932.3	2028.3	2168.3	2358.4	2542.4	2788.4
15°	1876.3	1882.3	1846.3	1874.3	1886.3	1900.3	2006.3	2164.3	2334.4	2584.4	2846.5
17.5°	2014.3	1980.3	1924.3	1898.3	1940.3	1940.3	2012.3	2136.3	2338.4	2606.4	2930.5
20°	2122.3	2122.3	2030.3	2002.3	2032.3	2026.3	2076.3	2168.3	2358.4	2650.4	3024.5
22.5°	2304.4	2330.4	2178.3	2120.3	2118.3	2134.3	2178.3	2256.4	2414.4	2712.4	3114.5
25°	2566.4	2572.4	2396.4	2336.4	2272.4	2298.4	2306.4	2384.4	2464.4	2784.4	3216.5
27.5°	2858.5	2854.5	2692.4	2542.4	2500.4	2506.4	2462.4	2514.4	2538.4	2806.4	3362.5
30°	3182.5	3146.5	3024.5	2812.4	2778.4	2740.4	2644.4	2642.4	2692.4	2930.5	3564.6
32.5°	3394.5	3348.5	3264.5	3112.5	3018.5	3022.5	2870.5	2868.5	2824.4	3066.5	3740.6
35°	3602.6	3532.6	3510.6	3354.5	3260.5	3270.5	3148.5	3132.5	3052.5	3272.5	4030.6
37.5°	3852.6	3790.6	3824.6	3706.6	3590.6	3542.6	3486.6	3466.5	3362.5	3562.6	4426.7
40°	4128.7	4108.7	4086.6	4028.6	3958.6	3962.6	3902.6	3882.6	3728.6	3912.6	4806.8
42.5°	4500.7	4424.7	4310.7	4348.7	4384.7	4422.7	4402.7	4350.7	4190.7	4268.7	5230.8
45°	4846.8	4746.8	4536.7	4548.7	4696.7	4726.7	4968.8	4962.8	4640.7	4720.7	5712.9
47.5°	5080.8	5034.8	4908.8	4894.8	5106.8	5104.8	5540.9	5540.9	5114.8	5170.8	6231.0
50°	5428.9	5308.8	5254.8	5324.8	5432.9	5506.9	6125.0	6163.0	5580.9	5640.9	6909.1
52.5°	5836.9	5686.9	5550.9	5730.9	5922.9	5970.9	6703.1	6687.1	5938.9	6187.0	7703.2
55°	6175.0	6099.0	6005.0	6109.0	6423.0	6483.0	7283.2	7135.1	6297.0	6639.1	8085.3
57.5°	6569.0	6615.0	6635.1	6609.0	6983.1	7077.1	7945.3	7521.2	6605.0	6943.1	8309.3
60°	7163.1	7191.1	7217.1	7279.2	7675.2	7807.2	8469.3	8005.3	6799.1	7119.1	8327.3
62.5°	8067.3	7959.3	8017.3	8231.3	8549.4	8699.4	9241.5	8345.3	6947.1	7225.1	7739.2
65°	9101.4	8955.4	8895.4	9171.5	9995.6	9875.6	10205.6	8599.4	6733.1	6829.1	6563.0
67.5°	10149.6	10165.6	10011.6	10565.7	11575.8	11575.8	11101.8	8721.4	6153.0	5534.9	4602.7
70°	10981.7	11031.7	11115.8	12189.9	13790.2	14032.2	12211.9	8221.3	4970.8	3684.6	2516.4
72.5°	10969.7	10819.7	11249.8	13228.1	15802.5	15600.5	12444.0	6501.0	3102.5	1804.3	1154.2
73°	10723.7	10597.7	11067.8	13218.1	15884.5	15694.5	12273.9	5993.0	2736.4	1564.2	1026.2
75°	8757.4	8529.4	9329.5	11971.9	14696.3	14842.4	10427.7	3908.6	1500.2	964.2	722.1
77.5°	3992.6	4092.6	5134.8	8031.3	11325.8	11497.8	6855.1	1690.3	822.1	676.1	532.1
80°	1282.2	1346.2	1998.3	3992.6	7099.1	7409.2	3168.5	768.1	586.1	518.1	398.1
82.5°	490.1	488.1	838.1	1660.3	3364.5	3562.6	1158.2	468.1	436.1	382.1	282.0
85°	172.0	180.0	316.1	656.1	1324.2	1386.2	402.1	260.0	302.0	256.0	162.0
87.5°	60.0	62.0	112.0	238.0	456.1	482.1	112.0	104.0	150.0	148.0	82.0
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°	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4	2712.4
2.5°	2740.4	2758.4	2764.4	2836.4	2836.4	2836.4	2864.5	2864.5	2856.5	2836.4	2884.5
5°	2752.4	2784.4	2846.5	2908.5	2924.5	2938.5	2976.5	2944.5	2956.5	2936.5	2954.5
7.5°	2786.4	2830.4	2946.5	2984.5	2958.5	2988.5	2948.5	2926.5	2904.5	2912.5	2884.5
10°	2844.5	2900.5	2954.5	3024.5	2974.5	2944.5	2862.5	2842.5	2772.4	2748.4	2770.4
12.5°	2916.5	2984.5	3076.5	3050.5	2954.5	2868.5	2780.4	2696.4	2654.4	2594.4	2610.4
15°	2988.5	3066.5	3080.5	3036.5	2916.5	2808.4	2648.4	2530.4	2488.4	2434.4	2462.4
17.5°	3066.5	3140.5	3116.5	3002.5	2840.5	2676.4	2494.4	2378.4	2290.4	2256.4	2256.4
20°	3182.5	3218.5	3180.5	2946.5	2748.4	2532.4	2356.4	2224.4	2136.3	2122.3	2100.3
22.5°	3272.5	3330.5	3160.5	2864.5	2614.4	2344.4	2142.3	2092.3	2066.3	2044.3	2016.3
25°	3388.5	3386.5	3124.5	2788.4	2384.4	2120.3	1998.3	1994.3	1982.3	1974.3	2012.3
27.5°	3498.6	3452.5	3082.5	2600.4	2146.3	1950.3	1884.3	1928.3	1946.3	1934.3	1950.3
30°	3672.6	3596.6	3022.5	2400.4	1936.3	1778.3	1790.3	1850.3	1880.3	1898.3	1874.3
32.5°	3856.6	3740.6	2898.5	2192.3	1750.3	1670.3	1698.3	1760.3	1796.3	1816.3	1838.3
35°	4122.7	3852.6	2772.4	1920.3	1616.3	1604.3	1620.3	1654.3	1706.3	1720.3	1726.3
37.5°	4450.7	4022.6	2602.4	1702.3	1512.2	1526.2	1542.2	1554.2	1556.2	1582.3	1572.2
40°	4778.8	4166.7	2354.4	1494.2	1404.2	1480.2	1472.2	1450.2	1432.2	1408.2	1402.2
42.5°	5066.8	4292.7	2078.3	1318.2	1308.2	1432.2	1406.2	1350.2	1308.2	1290.2	1260.2
45°	5390.9	4470.7	1800.3	1208.2	1234.2	1374.2	1366.2	1280.2	1226.2	1162.2	1154.2
47.5°	5810.9	4656.7	1534.2	1094.2	1164.2	1352.2	1356.2	1246.2	1168.2	1082.2	1070.2
50°	6349.0	4924.8	1332.2	1046.2	1122.2	1320.2	1326.2	1200.2	1098.2	1010.2	1002.2
52.5°	6865.1	5198.8	1164.2	972.2	1094.2	1282.2	1296.2	1158.2	1040.2	930.1	936.1
55°	7125.1	5098.8	1020.2	918.1	1030.2	1220.2	1272.2	1128.2	952.2	876.1	874.1
57.5°	7183.1	4852.8	906.1	862.1	976.2	1154.2	1232.2	1038.2	912.1	848.1	840.1
60°	6993.1	4422.7	816.1	802.1	908.1	1086.2	1140.2	990.2	872.1	820.1	808.1
62.5°	6525.0	3976.6	754.1	774.1	850.1	1012.2	1082.2	956.2	834.1	798.1	772.1
65°	5350.8	3270.5	704.1	720.1	790.1	940.1	1046.2	918.1	800.1	766.1	764.1
67.5°	3706.6	2254.4	664.1	694.1	742.1	888.1	1010.2	876.1	756.1	744.1	728.1
70°	1898.3	1202.2	612.1	636.1	690.1	822.1	946.2	832.1	710.1	708.1	688.1
72.5°	962.2	704.1	552.1	588.1	626.1	736.1	866.1	774.1	652.1	630.1	598.1
73°	832.1	652.1	542.1	574.1	610.1	712.1	842.1	760.1	644.1	612.1	582.1
75°	606.1	514.1	486.1	518.1	546.1	642.1	762.1	696.1	592.1	558.1	530.1
77.5°	454.1	396.1	404.1	440.1	464.1	554.1	678.1	630.1	536.1	490.1	478.1
80°	334.1	302.0	334.1	368.1	386.1	488.1	618.1	546.1	452.1	400.1	390.1
82.5°	238.0	220.0	258.0	280.0	288.0	404.1	556.1	436.1	342.1	274.0	252.0
85°	136.0	134.0	174.0	172.0	178.0	236.0	366.1	290.0	220.0	168.0	164.0
87.5°	60.0	66.0	88.0	70.0	74.0	112.0	156.0	108.0	90.0	50.0	38.0
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)