

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: P478021

Luminaire Tested: **IFLD-M-SA4B-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478021  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

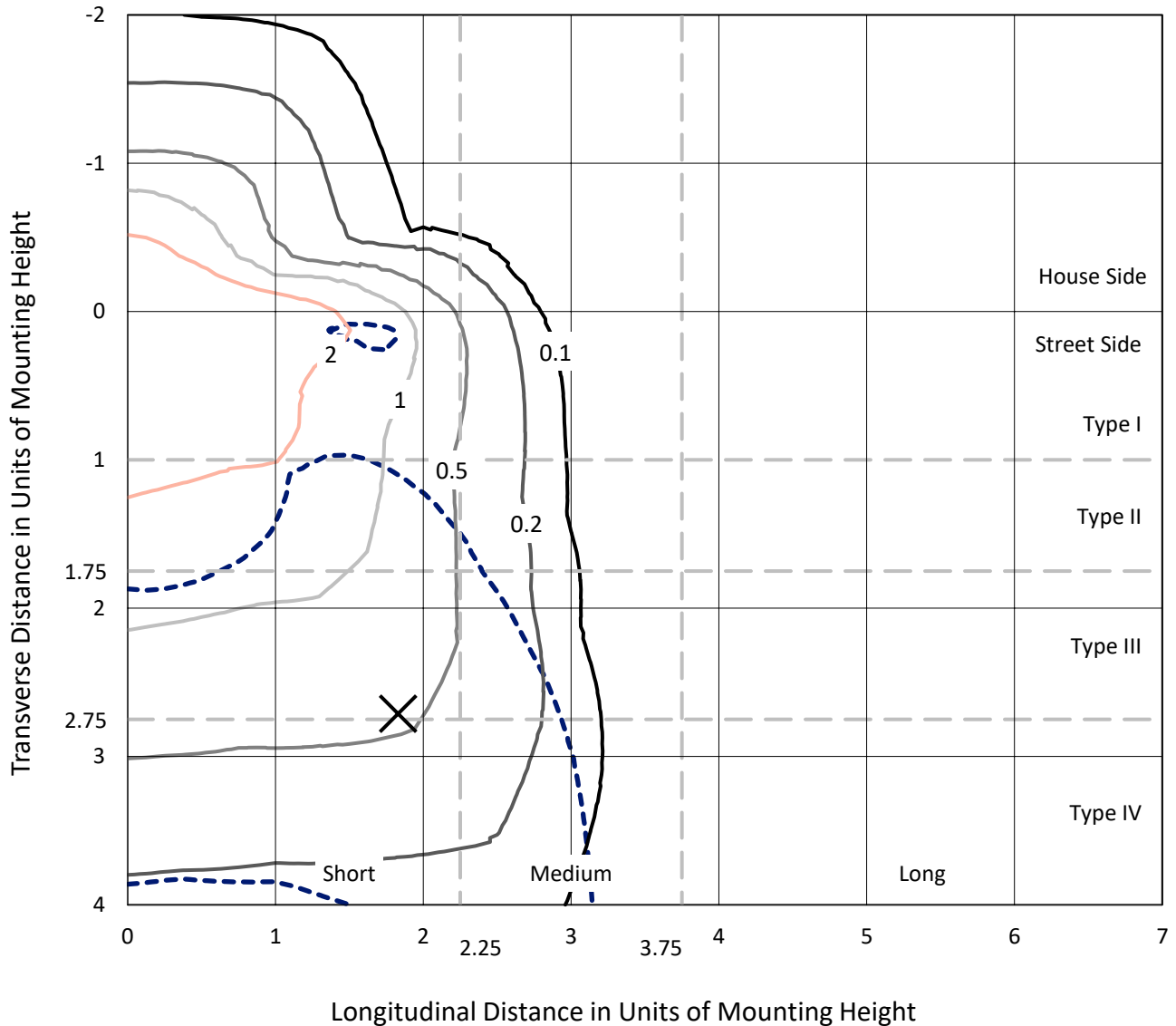
Lumens per Lamp: N/A  
Luminaire Lumens: 17235.6 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

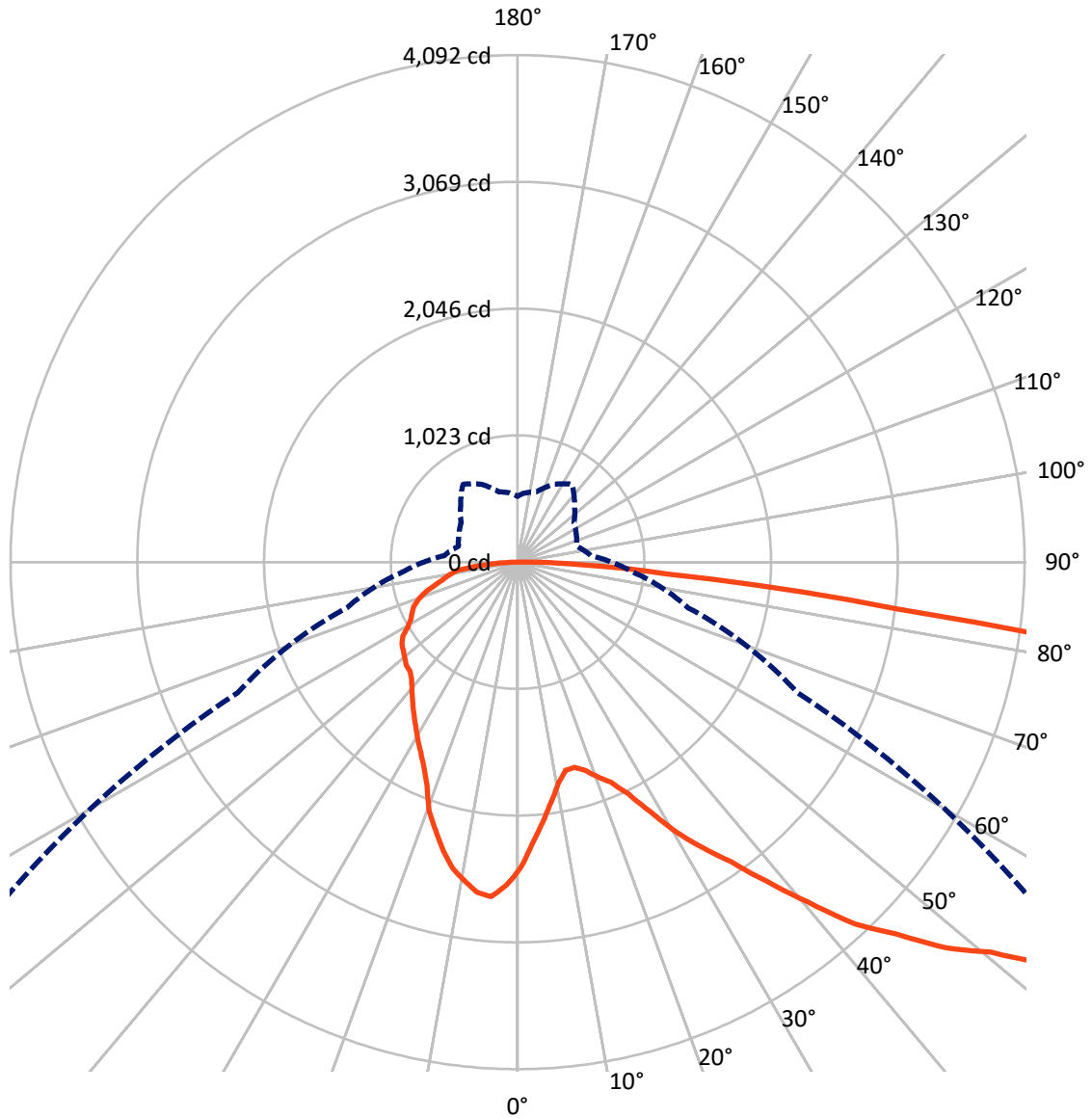
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	3723.1	0.0	3723.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13512.5	0.0	13512.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	17235.6	0.0	17235.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.1	1.3
10°-20°	638.2	3.7
20°-30°	1050.5	6.1
30°-40°	1570.9	9.1
40°-50°	2328.9	13.5
50°-60°	3356.2	19.5
60°-70°	4282.9	24.8
70°-80°	3332.8	19.3
80°-90°	447.1	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°	17235.6	100.0
0°-180°	17235.6	100.0

**Coefficient of Utilization**



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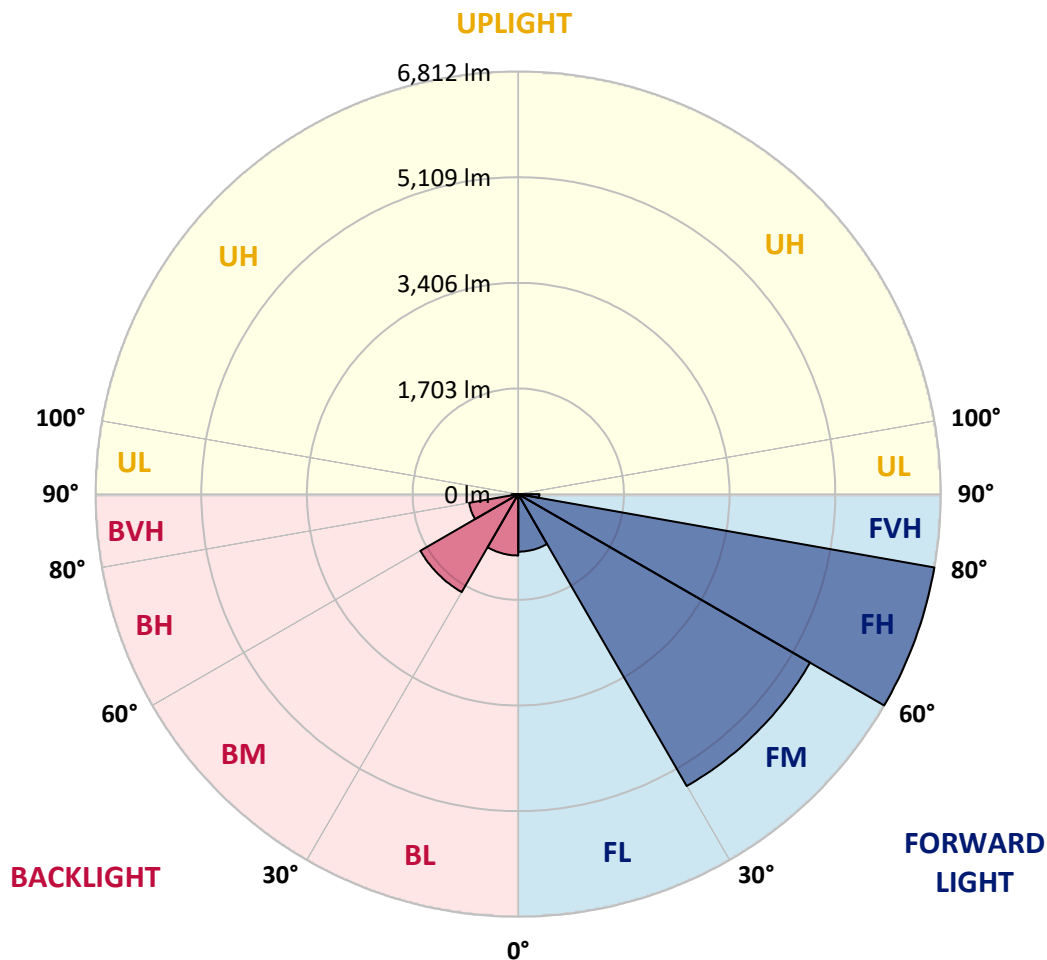
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.6	5.4			
FM (30°-60°)	5432.8	31.5			
FH (60°-80°)	6811.8	39.5			G3/7500
FVH (80°-90°)	340.3	2.0			G3/500
BL (0°-30°)	989.2	5.7	B2/1000		
BM (30°-60°)	1823.2	10.6	B2/2500		
BH (60°-80°)	803.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	106.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0
2.5°	2214.0	2221.3	2245.0	2250.5	2276.0	2261.4	2292.4	2347.1	2378.1	2423.6	2478.3
5°	2039.1	2008.1	2022.7	2079.2	2108.4	2115.6	2148.4	2241.4	2299.7	2367.1	2469.2
7.5°	1833.2	1827.7	1856.9	1893.3	1951.6	1957.1	2030.0	2112.0	2232.3	2381.7	2502.0
10°	1692.9	1716.6	1733.0	1771.2	1811.3	1811.3	1904.3	2046.4	2183.1	2327.0	2509.3
12.5°	1685.6	1671.0	1674.7	1694.7	1723.9	1760.3	1847.8	1975.3	2148.4	2316.1	2540.2
15°	1709.3	1714.7	1681.9	1707.5	1718.4	1731.2	1827.7	1971.7	2126.6	2354.4	2593.1
17.5°	1835.0	1804.0	1753.0	1729.3	1767.6	1767.6	1833.2	1946.2	2130.2	2374.4	2669.6
20°	1933.4	1933.4	1849.6	1824.1	1851.4	1846.0	1891.5	1975.3	2148.4	2414.5	2755.3
22.5°	2099.2	2122.9	1984.4	1931.6	1929.8	1944.4	1984.4	2055.5	2199.5	2471.0	2837.3
25°	2338.0	2343.4	2183.1	2128.4	2070.1	2093.8	2101.1	2172.1	2245.0	2536.6	2930.2
27.5°	2604.0	2600.4	2452.8	2316.1	2277.8	2283.3	2243.2	2290.6	2312.5	2556.6	3063.2
30°	2899.2	2866.4	2755.3	2562.1	2531.1	2496.5	2409.0	2407.2	2452.8	2669.6	3247.3
32.5°	3092.4	3050.5	2973.9	2835.4	2749.8	2753.4	2614.9	2613.1	2573.0	2793.5	3407.6
35°	3281.9	3218.1	3198.1	3055.9	2970.3	2979.4	2868.2	2853.7	2780.8	2981.2	3671.9
37.5°	3509.7	3453.2	3484.2	3376.7	3271.0	3227.2	3176.2	3158.0	3063.2	3245.5	4032.7
40°	3761.2	3742.9	3722.9	3670.0	3606.3	3609.9	3555.2	3537.0	3396.7	3564.3	4378.9
42.5°	4100.1	4030.8	3927.0	3961.6	3994.4	4029.0	4010.8	3963.4	3817.6	3888.7	4765.2
45°	4415.3	4324.2	4132.9	4143.8	4278.7	4306.0	4526.5	4521.0	4227.7	4300.5	5204.4
47.5°	4628.5	4586.6	4471.8	4459.1	4652.2	4650.4	5047.7	5047.7	4659.5	4710.6	5676.4
50°	4945.6	4836.3	4787.1	4850.9	4949.3	5016.7	5579.8	5614.4	5084.1	5138.8	6294.1
52.5°	5317.4	5180.7	5056.8	5220.8	5395.7	5439.5	6106.4	6091.8	5410.3	5636.3	7017.5
55°	5625.3	5556.1	5470.4	5565.2	5851.3	5906.0	6634.9	6500.0	5736.5	6048.1	7365.6
57.5°	5984.3	6026.2	6044.4	6020.8	6361.5	6447.2	7238.0	6851.7	6017.1	6325.1	7569.7
60°	6525.5	6551.0	6574.7	6631.2	6992.0	7112.3	7715.5	7292.7	6193.9	6485.4	7586.1
62.5°	7349.2	7250.8	7303.6	7498.6	7788.4	7925.0	8418.9	7602.5	6328.7	6582.0	7050.3
65°	8291.3	8158.3	8103.6	8355.1	9105.8	8996.5	9297.2	7833.9	6133.7	6221.2	5978.8
67.5°	9246.2	9260.7	9120.4	9625.2	10545.4	10545.4	10113.6	7945.1	5605.3	5042.2	4193.0
70°	10004.2	10049.8	10126.3	11104.9	12562.7	12783.2	11124.9	7489.5	4528.3	3356.6	2292.4
72.5°	9993.3	9856.6	10248.4	12050.6	14395.9	14211.8	11336.3	5922.4	2826.3	1643.7	1051.4
73°	9769.2	9654.4	10082.6	12041.5	14470.6	14297.5	11181.4	5459.5	2492.9	1425.0	934.8
75°	7977.9	7770.1	8499.0	10906.2	13388.2	13521.2	9499.5	3560.7	1366.7	878.3	657.8
77.5°	3637.2	3728.4	4677.8	7316.4	10317.7	10474.4	6244.9	1539.8	749.0	615.9	484.7
80°	1168.1	1226.4	1820.4	3637.2	6467.2	6749.7	2886.5	699.7	533.9	472.0	362.6
82.5°	446.5	444.6	763.5	1512.5	3065.0	3245.5	1055.1	426.4	397.3	348.1	256.9
85°	156.7	164.0	287.9	597.7	1206.3	1262.8	366.3	236.9	275.2	233.2	147.6
87.5°	54.7	56.5	102.0	216.8	415.5	439.2	102.0	94.8	136.7	134.8	74.7
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°	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0	2471.0
2.5°	2496.5	2512.9	2518.4	2584.0	2584.0	2584.0	2609.5	2609.5	2602.2	2584.0	2627.7
5°	2507.4	2536.6	2593.1	2649.6	2664.1	2676.9	2711.5	2682.4	2693.3	2675.1	2691.5
7.5°	2538.4	2578.5	2684.2	2718.8	2695.1	2722.5	2686.0	2666.0	2645.9	2653.2	2627.7
10°	2591.3	2642.3	2691.5	2755.3	2709.7	2682.4	2607.7	2589.4	2525.7	2503.8	2523.8
12.5°	2656.9	2718.8	2802.6	2779.0	2691.5	2613.1	2532.9	2456.4	2418.1	2363.5	2378.1
15°	2722.5	2793.5	2806.3	2766.2	2656.9	2558.5	2412.7	2305.2	2266.9	2217.7	2243.2
17.5°	2793.5	2861.0	2839.1	2735.2	2587.6	2438.2	2272.4	2166.7	2086.5	2055.5	2055.5
20°	2899.2	2932.0	2897.4	2684.2	2503.8	2307.0	2146.6	2026.4	1946.2	1933.4	1913.4
22.5°	2981.2	3034.1	2879.2	2609.5	2381.7	2135.7	1951.6	1906.1	1882.4	1862.4	1836.8
25°	3086.9	3085.1	2846.4	2540.2	2172.1	1931.6	1820.4	1816.8	1805.9	1798.6	1833.2
27.5°	3187.1	3145.2	2808.1	2368.9	1955.3	1776.7	1716.6	1756.7	1773.1	1762.1	1776.7
30°	3345.7	3276.4	2753.4	2186.7	1764.0	1620.0	1630.9	1685.6	1712.9	1729.3	1707.5
32.5°	3513.3	3407.6	2640.5	1997.2	1594.5	1521.6	1547.1	1603.6	1636.4	1654.6	1674.7
35°	3755.7	3509.7	2525.7	1749.4	1472.4	1461.5	1476.0	1507.0	1554.4	1567.1	1572.6
37.5°	4054.5	3664.6	2370.8	1550.7	1377.6	1390.4	1405.0	1415.9	1417.7	1441.4	1432.3
40°	4353.4	3795.8	2144.8	1361.2	1279.2	1348.5	1341.2	1321.1	1304.7	1282.9	1277.4
42.5°	4615.8	3910.6	1893.3	1200.9	1191.8	1304.7	1281.1	1230.0	1191.8	1175.4	1148.0
45°	4911.0	4072.8	1640.0	1100.6	1124.3	1251.9	1244.6	1166.2	1117.0	1058.7	1051.4
47.5°	5293.7	4242.2	1397.7	996.8	1060.6	1231.9	1235.5	1135.3	1064.2	985.8	974.9
50°	5783.9	4486.4	1213.6	953.0	1022.3	1202.7	1208.2	1093.4	1000.4	920.2	913.0
52.5°	6254.0	4736.1	1060.6	885.6	996.8	1168.1	1180.8	1055.1	947.6	847.4	852.8
55°	6490.9	4644.9	929.4	836.4	938.5	1111.6	1159.0	1027.8	867.4	798.2	796.3
57.5°	6543.7	4420.8	825.5	785.4	889.3	1051.4	1122.5	945.8	831.0	772.6	765.4
60°	6370.6	4029.0	743.5	730.7	827.3	989.5	1038.7	902.0	794.5	747.1	736.2
62.5°	5944.2	3622.7	687.0	705.2	774.5	922.1	985.8	871.0	759.9	727.1	703.4
65°	4874.6	2979.4	641.4	656.0	719.8	856.5	953.0	836.4	728.9	697.9	696.1
67.5°	3376.7	2053.7	605.0	632.3	676.1	809.1	920.2	798.2	688.8	677.9	663.3
70°	1729.3	1095.2	557.6	579.5	628.7	749.0	861.9	758.1	646.9	645.1	626.9
72.5°	876.5	641.4	502.9	535.7	570.4	670.6	789.0	705.2	594.1	574.0	544.9
73°	758.1	594.1	493.8	523.0	555.8	648.7	767.2	692.5	586.8	557.6	530.3
75°	552.1	468.3	442.8	472.0	497.5	584.9	694.3	634.1	539.4	508.4	482.9
77.5°	413.7	360.8	368.1	400.9	422.8	504.8	617.7	574.0	488.4	446.5	435.5
80°	304.3	275.2	304.3	335.3	351.7	444.6	563.1	497.5	411.8	364.5	355.3
82.5°	216.8	200.4	235.1	255.1	262.4	368.1	506.6	397.3	311.6	249.7	229.6
85°	123.9	122.1	158.5	156.7	162.2	215.0	333.5	264.2	200.4	153.1	149.4
87.5°	54.7	60.1	80.2	63.8	67.4	102.0	142.1	98.4	82.0	45.6	34.6
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)