

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: P478077

Luminaire Tested: **IFLD-S-SA2E-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478077  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

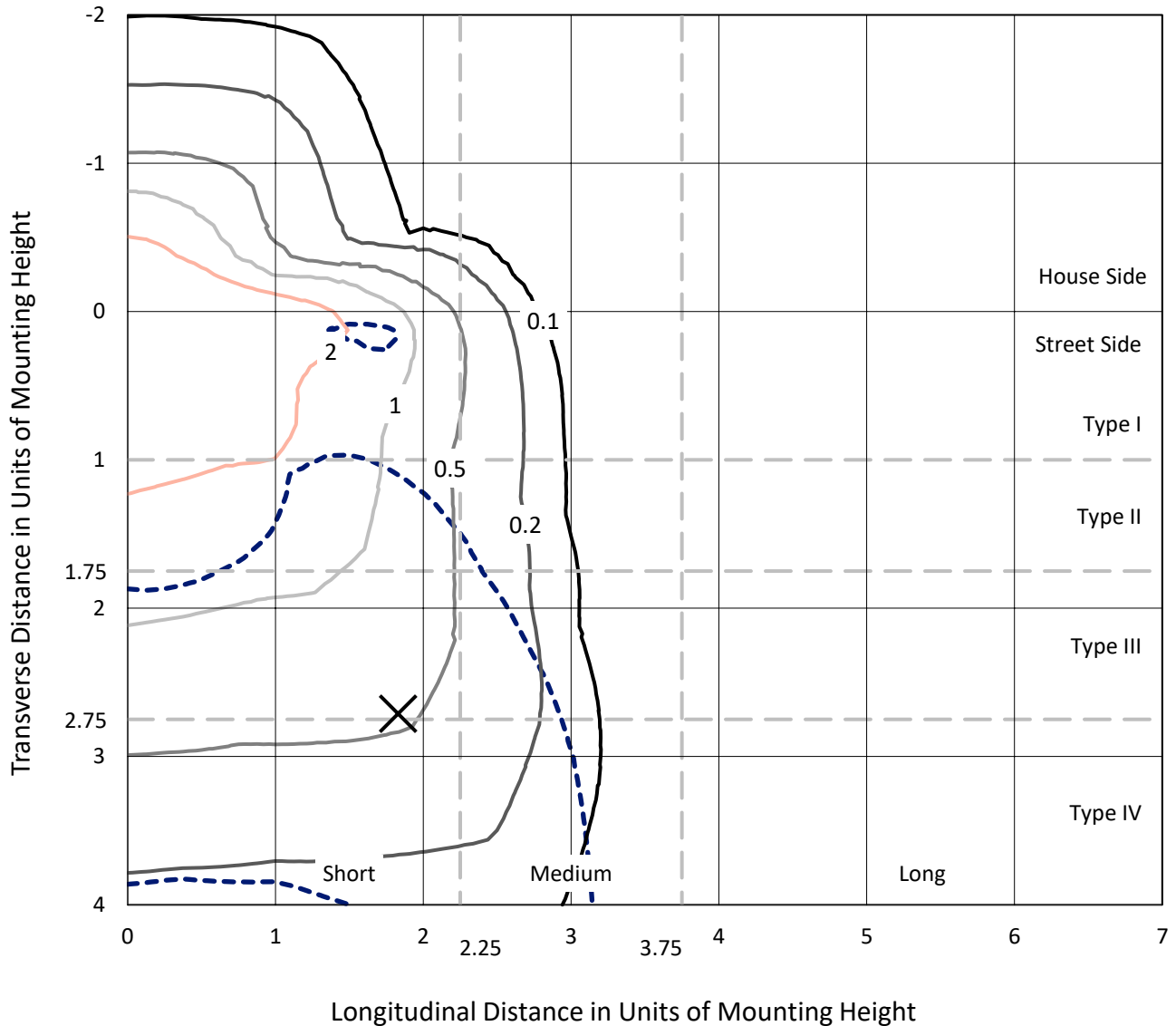
Lumens per Lamp: N/A  
Luminaire Lumens: 16884.9 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2  
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

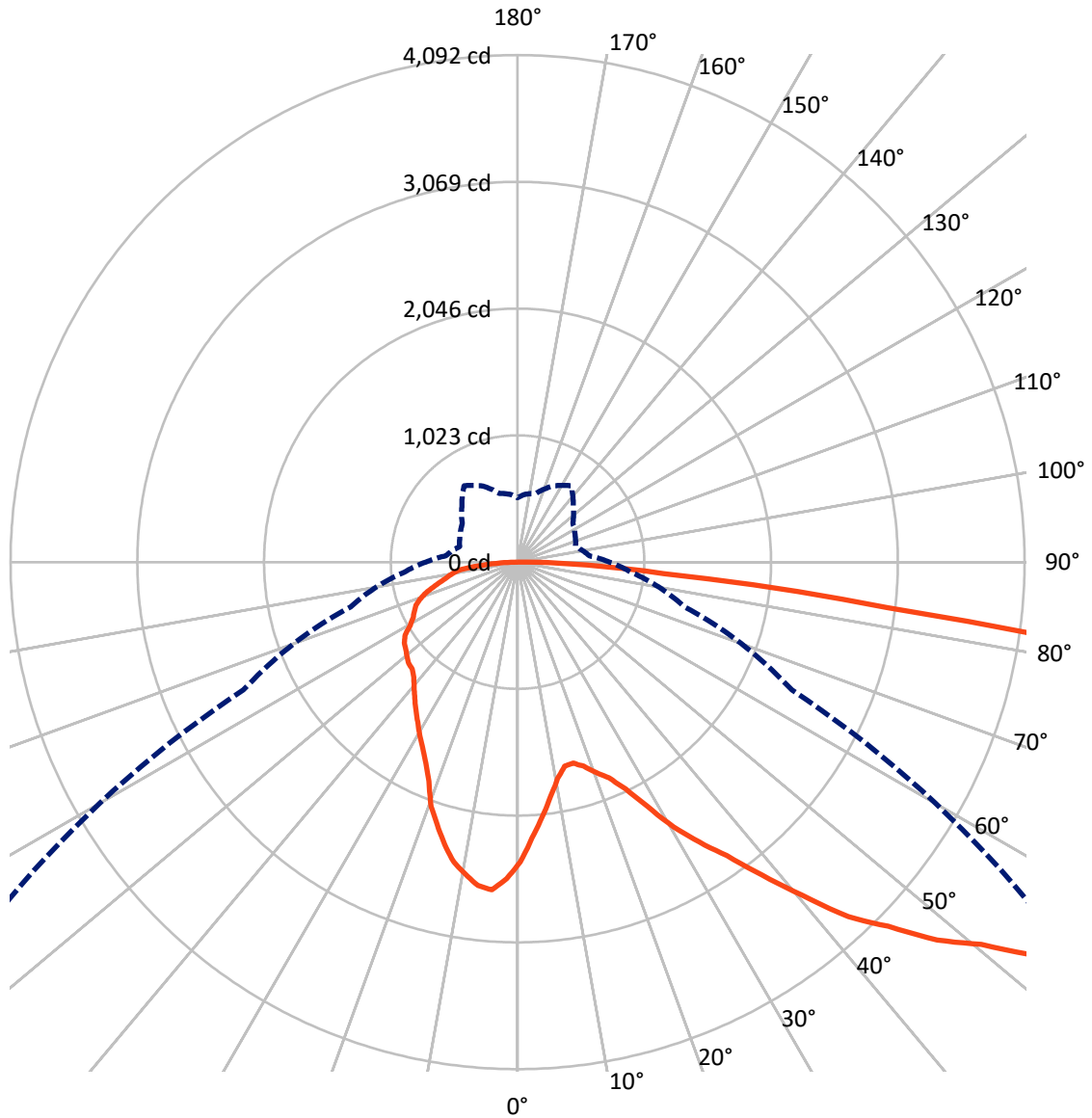
× Max cd  
 - - - 1/2 Max cd



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3647.4	0.0	3647.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13237.6	0.0	13237.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	16884.9	0.0	16884.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.4	1.3
10°-20°	625.3	3.7
20°-30°	1029.1	6.1
30°-40°	1539.0	9.1
40°-50°	2281.5	13.5
50°-60°	3287.9	19.5
60°-70°	4195.8	24.8
70°-80°	3265.0	19.3
80°-90°	438.0	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°	16884.9	100.0
0°-180°	16884.9	100.0

**Coefficient of Utilization**



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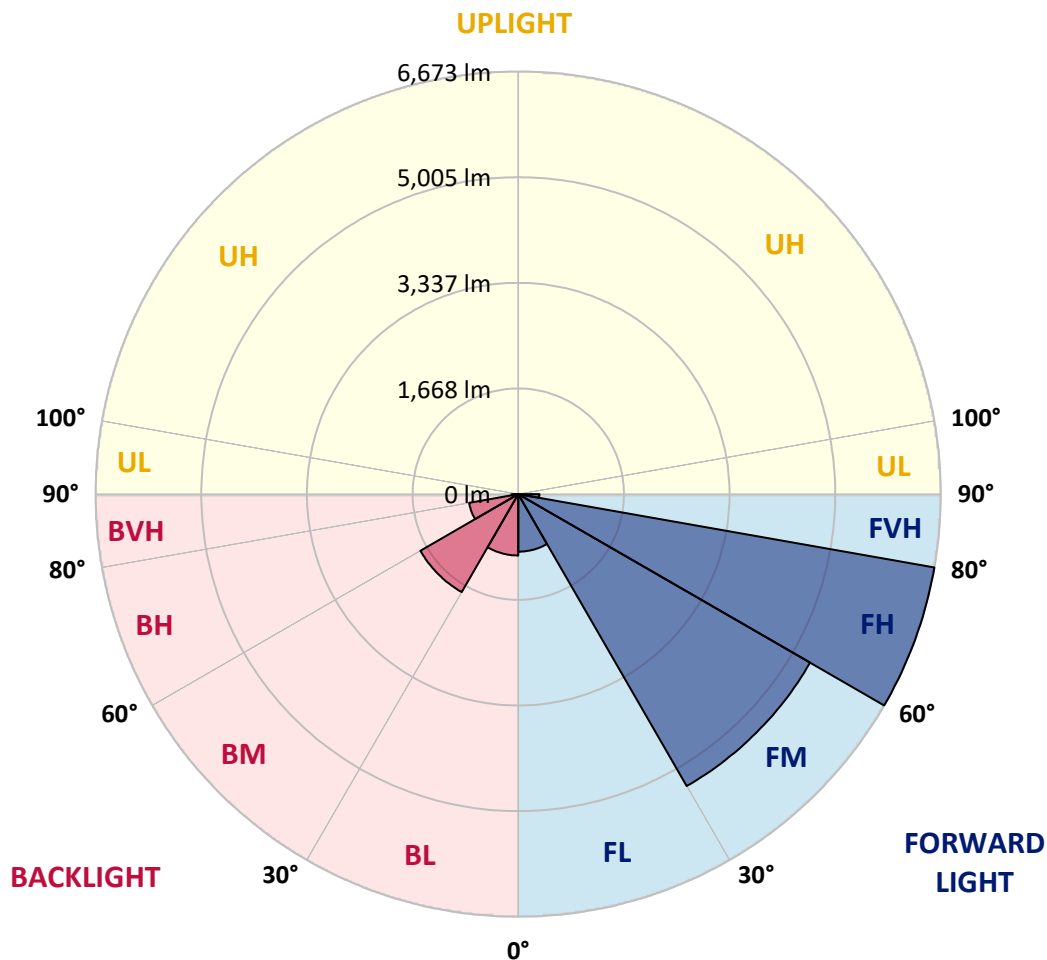
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.7	5.4			
FM (30°-60°)	5322.2	31.5			
FH (60°-80°)	6673.2	39.5			G3/7500
FVH (80°-90°)	333.4	2.0			G3/500
BL (0°-30°)	969.1	5.7	B2/1000		
BM (30°-60°)	1786.1	10.6	B2/2500		
BH (60°-80°)	787.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	104.6	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°	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2169.0	2176.1	2199.4	2204.7	2229.7	2215.4	2245.8	2299.3	2329.7	2374.3	2427.9
5°	1997.6	1967.3	1981.6	2036.9	2065.5	2072.6	2104.7	2195.8	2252.9	2319.0	2418.9
7.5°	1795.9	1790.5	1819.1	1854.8	1911.9	1917.3	1988.7	2069.0	2186.9	2333.2	2451.1
10°	1658.4	1681.7	1697.7	1735.2	1774.5	1774.5	1865.5	2004.8	2138.7	2279.7	2458.2
12.5°	1651.3	1637.0	1640.6	1660.2	1688.8	1724.5	1810.2	1935.1	2104.7	2269.0	2488.6
15°	1674.5	1679.9	1647.7	1672.7	1683.4	1695.9	1790.5	1931.6	2083.3	2306.5	2540.3
17.5°	1797.7	1767.3	1717.4	1694.1	1731.6	1731.6	1795.9	1906.6	2086.9	2326.1	2615.3
20°	1894.1	1894.1	1812.0	1787.0	1813.8	1808.4	1853.0	1935.1	2104.7	2365.4	2699.2
22.5°	2056.5	2079.7	1944.1	1892.3	1890.5	1904.8	1944.1	2013.7	2154.7	2420.7	2779.5
25°	2290.4	2295.8	2138.7	2085.1	2028.0	2051.2	2058.3	2127.9	2199.4	2485.0	2870.6
27.5°	2551.0	2547.5	2402.9	2269.0	2231.5	2236.8	2197.6	2244.0	2265.4	2504.6	3000.9
30°	2840.2	2808.1	2699.2	2510.0	2479.6	2445.7	2360.0	2358.2	2402.9	2615.3	3181.2
32.5°	3029.5	2988.4	2913.4	2777.8	2693.9	2697.4	2561.8	2560.0	2520.7	2736.7	3338.3
35°	3215.1	3152.6	3133.0	2993.8	2909.9	2918.8	2809.9	2795.6	2724.2	2920.6	3597.2
37.5°	3438.3	3382.9	3413.3	3308.0	3204.4	3161.6	3111.6	3093.7	3000.9	3179.4	3950.6
40°	3684.6	3666.8	3647.1	3595.4	3532.9	3536.5	3482.9	3465.1	3327.6	3491.8	4289.8
42.5°	4016.7	3948.8	3847.1	3881.0	3913.1	3947.1	3929.2	3882.8	3740.0	3809.6	4668.3
45°	4325.5	4236.3	4048.8	4059.5	4191.6	4218.4	4434.4	4429.1	4141.6	4213.1	5098.5
47.5°	4534.4	4493.3	4380.9	4368.4	4557.6	4555.8	4945.0	4945.0	4564.7	4614.7	5560.9
50°	4845.0	4737.9	4689.7	4752.2	4848.6	4914.6	5466.3	5500.2	4980.7	5034.2	6166.1
52.5°	5209.2	5075.3	4953.9	5114.6	5286.0	5328.8	5982.2	5967.9	5300.2	5521.6	6874.8
55°	5510.9	5443.1	5359.1	5452.0	5732.3	5785.8	6499.9	6367.8	5619.8	5925.1	7215.7
57.5°	5862.6	5903.6	5921.5	5898.3	6232.1	6316.0	7090.8	6712.3	5894.7	6196.4	7415.7
60°	6392.8	6417.8	6441.0	6496.3	6849.8	6967.6	7558.5	7144.3	6067.9	6353.5	7431.8
62.5°	7199.7	7103.3	7155.0	7346.1	7629.9	7763.8	8247.6	7447.8	6200.0	6448.1	6906.9
65°	8122.6	7992.3	7938.7	8185.1	8920.6	8813.5	9108.0	7674.5	6009.0	6094.6	5857.2
67.5°	9058.1	9072.3	8934.9	9429.4	10330.9	10330.9	9907.8	7783.4	5491.3	4939.6	4107.7
70°	9800.7	9845.3	9920.3	10879.0	12307.1	12523.1	10898.6	7337.1	4436.2	3288.3	2245.8
72.5°	9790.0	9656.1	10039.9	11805.5	14103.0	13922.7	11105.7	5801.9	2768.8	1610.2	1030.1
73°	9570.4	9457.9	9877.5	11796.5	14176.2	14006.6	10953.9	5348.4	2442.1	1396.0	915.8
75°	7815.6	7612.1	8326.1	10684.4	13115.8	13246.1	9306.2	3488.3	1338.9	860.5	644.5
77.5°	3563.2	3652.5	4582.6	7167.5	10107.8	10261.3	6117.9	1508.5	733.7	603.4	474.9
80°	1144.3	1201.4	1783.4	3563.2	6335.6	6612.4	2827.7	685.5	523.1	462.4	355.3
82.5°	437.4	435.6	748.0	1481.7	3002.7	3179.4	1033.6	417.7	389.2	341.0	251.7
85°	153.5	160.7	282.1	585.5	1181.8	1237.1	358.8	232.1	269.6	228.5	144.6
87.5°	53.6	55.3	100.0	212.4	407.0	430.2	100.0	92.8	133.9	132.1	73.2
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°	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7	2420.7
2.5°	2445.7	2461.8	2467.1	2531.4	2531.4	2531.4	2556.4	2556.4	2549.3	2531.4	2574.2
5°	2456.4	2485.0	2540.3	2595.7	2610.0	2622.4	2656.4	2627.8	2638.5	2620.7	2636.7
7.5°	2486.8	2526.0	2629.6	2663.5	2640.3	2667.1	2631.4	2611.7	2592.1	2599.2	2574.2
10°	2538.5	2588.5	2636.7	2699.2	2654.6	2627.8	2554.6	2536.8	2474.3	2452.9	2472.5
12.5°	2602.8	2663.5	2745.6	2722.4	2636.7	2560.0	2481.4	2406.4	2368.9	2315.4	2329.7
15°	2667.1	2736.7	2749.2	2709.9	2602.8	2506.4	2363.6	2258.3	2220.8	2172.6	2197.6
17.5°	2736.7	2802.8	2781.3	2679.6	2535.0	2388.6	2226.1	2122.6	2044.0	2013.7	2013.7
20°	2840.2	2872.4	2838.5	2629.6	2452.9	2260.1	2103.0	1985.1	1906.6	1894.1	1874.5
22.5°	2920.6	2972.3	2820.6	2556.4	2333.2	2092.2	1911.9	1867.3	1844.1	1824.5	1799.5
25°	3024.1	3022.3	2788.5	2488.6	2127.9	1892.3	1783.4	1779.8	1769.1	1762.0	1795.9
27.5°	3122.3	3081.2	2751.0	2320.7	1915.5	1740.6	1681.7	1720.9	1737.0	1726.3	1740.6
30°	3277.6	3209.8	2697.4	2142.2	1728.1	1587.0	1597.7	1651.3	1678.1	1694.1	1672.7
32.5°	3441.9	3338.3	2586.7	1956.6	1562.0	1490.6	1515.6	1571.0	1603.1	1621.0	1640.6
35°	3679.3	3438.3	2474.3	1713.8	1442.4	1431.7	1446.0	1476.4	1522.8	1535.3	1540.6
37.5°	3972.1	3590.0	2322.5	1519.2	1349.6	1362.1	1376.4	1387.1	1388.9	1412.1	1403.2
40°	4264.8	3718.6	2101.2	1333.5	1253.2	1321.0	1313.9	1294.3	1278.2	1256.8	1251.4
42.5°	4521.9	3831.0	1854.8	1176.4	1167.5	1278.2	1255.0	1205.0	1167.5	1151.4	1124.7
45°	4811.1	3989.9	1606.7	1078.3	1101.5	1226.4	1219.3	1142.5	1094.3	1037.2	1030.1
47.5°	5186.0	4155.9	1369.2	976.5	1039.0	1206.8	1210.4	1112.2	1042.6	965.8	955.1
50°	5666.2	4395.1	1188.9	933.7	1001.5	1178.2	1183.6	1071.1	980.1	901.5	894.4
52.5°	6126.8	4639.7	1039.0	867.6	976.5	1144.3	1156.8	1033.6	928.3	830.1	835.5
55°	6358.9	4550.5	910.4	819.4	919.4	1089.0	1135.4	1006.8	849.8	781.9	780.1
57.5°	6410.6	4330.9	808.7	769.4	871.2	1030.1	1099.7	926.5	814.0	756.9	749.8
60°	6241.0	3947.1	728.4	715.9	810.5	969.4	1017.6	883.7	778.3	731.9	721.2
62.5°	5823.3	3549.0	673.0	690.9	758.7	903.3	965.8	853.3	744.4	712.3	689.1
65°	4775.4	2918.8	628.4	642.7	705.2	839.0	933.7	819.4	714.1	683.7	681.9
67.5°	3308.0	2011.9	592.7	619.5	662.3	792.6	901.5	781.9	674.8	664.1	649.8
70°	1694.1	1072.9	546.3	567.7	615.9	733.7	844.4	742.6	633.7	632.0	614.1
72.5°	858.7	628.4	492.7	524.8	558.8	657.0	773.0	690.9	582.0	562.3	533.8
73°	742.6	582.0	483.8	512.4	544.5	635.5	751.6	678.4	574.8	546.3	519.5
75°	540.9	458.8	433.8	462.4	487.4	573.0	680.2	621.2	528.4	498.1	473.1
77.5°	405.2	353.5	360.6	392.7	414.2	494.5	605.2	562.3	478.4	437.4	426.7
80°	298.1	269.6	298.1	328.5	344.5	435.6	551.6	487.4	403.5	357.0	348.1
82.5°	212.4	196.4	230.3	249.9	257.1	360.6	496.3	389.2	305.3	244.6	224.9
85°	121.4	119.6	155.3	153.5	158.9	210.7	326.7	258.9	196.4	150.0	146.4
87.5°	53.6	58.9	78.5	62.5	66.1	100.0	139.2	96.4	80.3	44.6	33.9
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)