

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: P478118

Luminaire Tested: **IFLD-S-SA3B-735-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478118  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-735-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

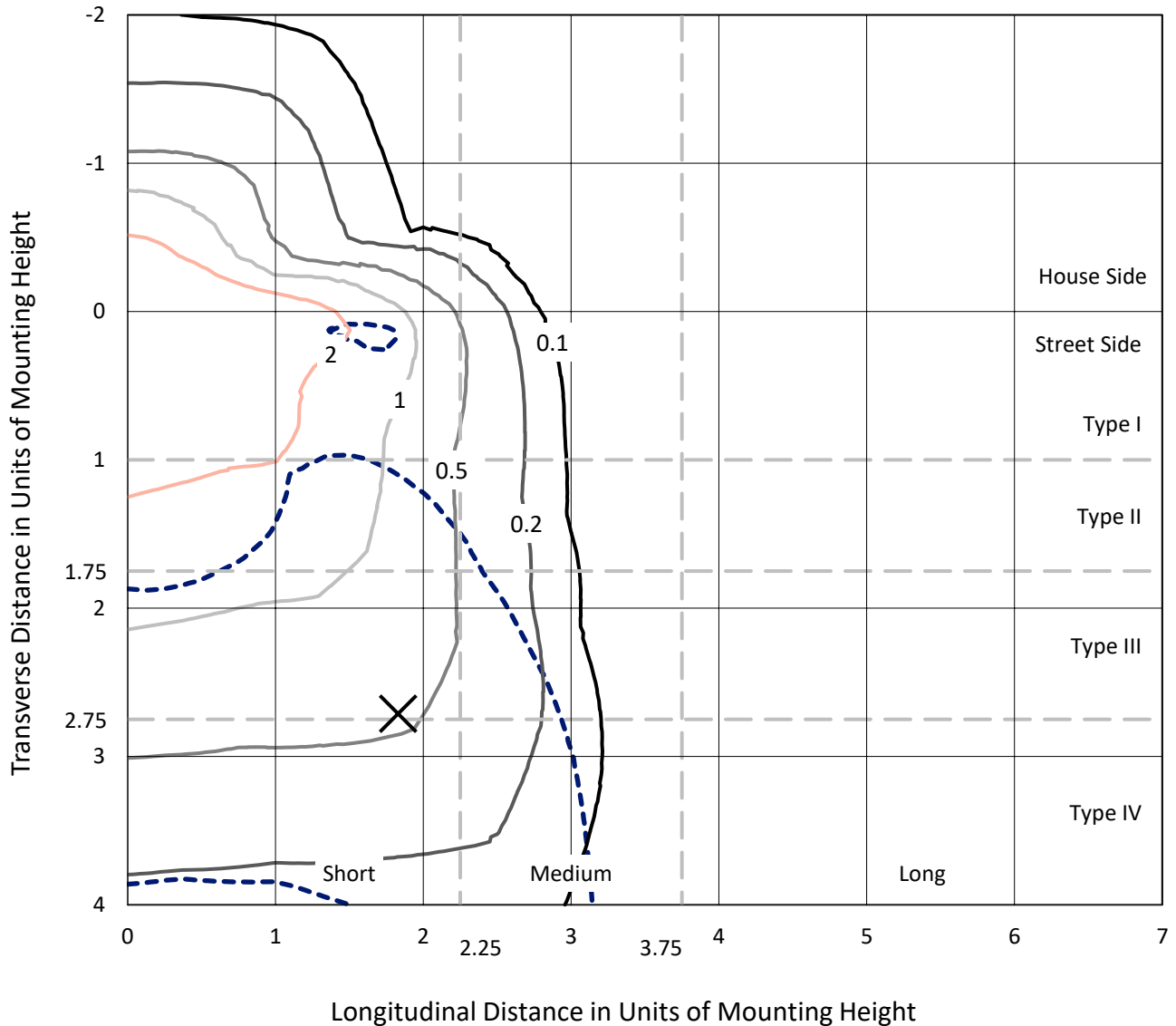
Lumens per Lamp: N/A  
Luminaire Lumens: 17193.8 lumens  
Efficiency: N/A  
Efficacy: 140.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

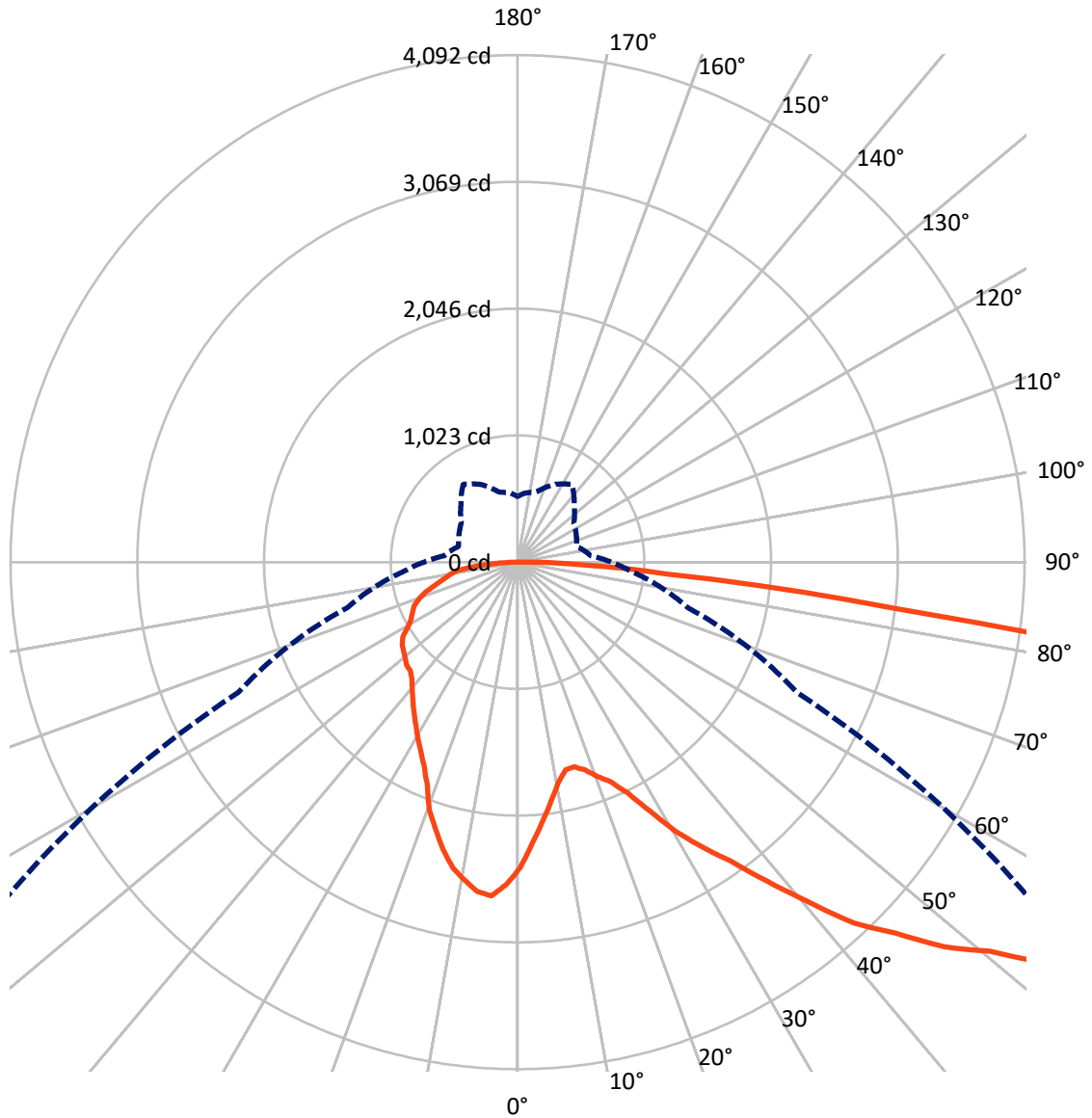
× Max cd  
 - - - 1/2 Max cd



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	3714.1	0.0	3714.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	13479.7	0.0	13479.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	17193.8	0.0	17193.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.5	1.3
10°-20°	636.7	3.7
20°-30°	1047.9	6.1
30°-40°	1567.1	9.1
40°-50°	2323.2	13.5
50°-60°	3348.0	19.5
60°-70°	4272.5	24.8
70°-80°	3324.7	19.3
80°-90°	446.0	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°	17193.8	100.0
0°-180°	17193.8	100.0

**Coefficient of Utilization**



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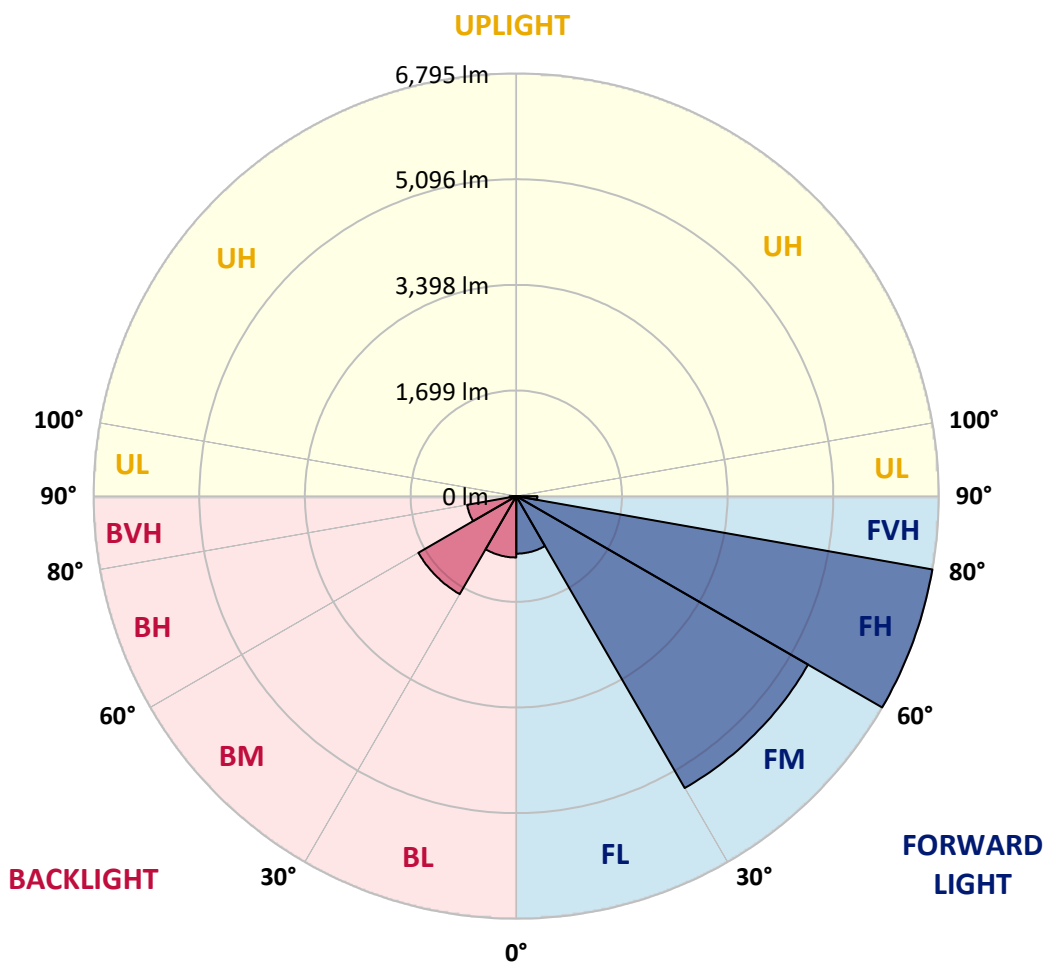
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.3	5.4			
FM (30°-60°)	5419.6	31.5			
FH (60°-80°)	6795.3	39.5			G3/7500
FVH (80°-90°)	339.5	2.0			G3/500
BL (0°-30°)	986.8	5.7	B2/1000		
BM (30°-60°)	1818.8	10.6	B2/2500		
BH (60°-80°)	801.9	4.7	B2/1000		G2/1000
BVH (80°-90°)	106.5	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°	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0
2.5°	2208.7	2216.0	2239.6	2245.0	2270.5	2255.9	2286.8	2341.4	2372.3	2417.7	2472.3
5°	2034.2	2003.3	2017.8	2074.2	2103.2	2110.5	2143.2	2235.9	2294.1	2361.4	2463.2
7.5°	1828.8	1823.3	1852.4	1888.7	1946.9	1952.4	2025.1	2106.9	2226.9	2375.9	2495.9
10°	1688.8	1712.4	1728.8	1766.9	1806.9	1806.9	1899.6	2041.4	2177.8	2321.4	2503.2
12.5°	1681.5	1667.0	1670.6	1690.6	1719.7	1756.0	1843.3	1970.5	2143.2	2310.5	2534.1
15°	1705.1	1710.6	1677.9	1703.3	1714.2	1727.0	1823.3	1966.9	2121.4	2348.7	2586.8
17.5°	1830.6	1799.7	1748.8	1725.1	1763.3	1763.3	1828.8	1941.5	2125.1	2368.7	2663.1
20°	1928.7	1928.7	1845.1	1819.7	1846.9	1841.5	1886.9	1970.5	2143.2	2408.6	2748.6
22.5°	2094.2	2117.8	1979.6	1926.9	1925.1	1939.6	1979.6	2050.5	2194.1	2465.0	2830.4
25°	2332.3	2337.7	2177.8	2123.2	2065.1	2088.7	2096.0	2166.9	2239.6	2530.4	2923.1
27.5°	2597.7	2594.1	2446.8	2310.5	2272.3	2277.8	2237.8	2285.0	2306.8	2550.4	3055.8
30°	2892.2	2859.5	2748.6	2555.9	2525.0	2490.4	2403.2	2401.4	2446.8	2663.1	3239.4
32.5°	3084.9	3043.1	2966.7	2828.6	2743.1	2746.8	2608.6	2606.8	2566.8	2786.8	3399.4
35°	3273.9	3210.3	3190.3	3048.5	2963.1	2972.2	2861.3	2846.7	2774.0	2974.0	3663.0
37.5°	3501.2	3444.8	3475.7	3368.5	3263.0	3219.4	3168.5	3150.3	3055.8	3237.6	4022.9
40°	3752.0	3733.9	3713.9	3661.1	3597.5	3601.2	3546.6	3528.4	3388.5	3555.7	4368.3
42.5°	4090.2	4021.1	3917.5	3952.0	3984.7	4019.3	4001.1	3953.8	3808.4	3879.3	4753.7
45°	4404.6	4313.7	4122.9	4133.8	4268.3	4295.6	4515.5	4510.1	4217.4	4290.1	5191.8
47.5°	4617.3	4575.5	4461.0	4448.3	4641.0	4639.1	5035.4	5035.4	4648.2	4699.1	5662.6
50°	4933.6	4824.6	4775.5	4839.1	4937.3	5004.5	5566.2	5600.8	5071.8	5126.3	6278.8
52.5°	5304.5	5168.1	5044.5	5208.1	5382.6	5426.3	6091.6	6077.1	5397.2	5622.6	7000.5
55°	5611.7	5542.6	5457.2	5551.7	5837.1	5891.6	6618.8	6484.3	5722.6	6033.4	7347.7
57.5°	5969.8	6011.6	6029.8	6006.2	6346.1	6431.5	7220.5	6835.1	6002.5	6309.7	7551.3
60°	6509.7	6535.2	6558.8	6615.1	6975.1	7095.1	7696.8	7275.0	6178.9	6469.7	7567.7
62.5°	7331.4	7233.2	7285.9	7480.4	7769.5	7905.8	8398.4	7584.1	6313.4	6566.1	7033.2
65°	8271.2	8138.5	8084.0	8334.8	9083.8	8974.7	9274.6	7814.9	6118.9	6206.1	5964.4
67.5°	9223.7	9238.3	9098.3	9601.9	10519.9	10519.9	10089.0	7925.8	5591.7	5030.0	4182.9
70°	9980.0	10025.4	10101.8	11077.9	12532.2	12752.2	11097.9	7471.3	4517.3	3348.5	2286.8
72.5°	9969.1	9832.7	10223.6	12021.4	14361.0	14177.4	11308.8	5908.0	2819.5	1639.7	1048.9
73°	9745.5	9630.9	10058.1	12012.3	14435.5	14262.8	11154.3	5446.3	2486.8	1421.6	932.6
75°	7958.5	7751.3	8478.4	10879.8	13355.7	13488.4	9476.4	3552.1	1363.4	876.2	656.2
77.5°	3628.4	3719.3	4666.4	7298.6	10292.6	10449.0	6229.8	1536.1	747.1	614.4	483.5
80°	1165.2	1223.4	1816.0	3628.4	6451.5	6733.3	2879.5	698.1	532.6	470.8	361.8
82.5°	445.4	443.6	761.7	1508.8	3057.6	3237.6	1052.5	425.4	396.3	347.2	256.3
85°	156.3	163.6	287.2	596.3	1203.4	1259.8	365.4	236.3	274.5	232.7	147.2
87.5°	54.5	56.4	101.8	216.3	414.5	438.1	101.8	94.5	136.3	134.5	74.5
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°	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0	2465.0
2.5°	2490.4	2506.8	2512.3	2577.7	2577.7	2577.7	2603.2	2603.2	2595.9	2577.7	2621.3
5°	2501.4	2530.4	2586.8	2643.1	2657.7	2670.4	2705.0	2675.9	2686.8	2668.6	2685.0
7.5°	2532.3	2572.3	2677.7	2712.2	2688.6	2715.9	2679.5	2659.5	2639.5	2646.8	2621.3
10°	2585.0	2635.9	2685.0	2748.6	2703.1	2675.9	2601.3	2583.2	2519.5	2497.7	2517.7
12.5°	2650.4	2712.2	2795.8	2772.2	2685.0	2606.8	2526.8	2450.5	2412.3	2357.7	2372.3
15°	2715.9	2786.8	2799.5	2759.5	2650.4	2552.3	2406.8	2299.6	2261.4	2212.3	2237.8
17.5°	2786.8	2854.0	2832.2	2728.6	2581.3	2432.3	2266.9	2161.4	2081.4	2050.5	2050.5
20°	2892.2	2924.9	2890.4	2677.7	2497.7	2301.4	2141.4	2021.4	1941.5	1928.7	1908.7
22.5°	2974.0	3026.7	2872.2	2603.2	2375.9	2130.5	1946.9	1901.5	1877.8	1857.8	1832.4
25°	3079.4	3077.6	2839.5	2534.1	2166.9	1926.9	1816.0	1812.4	1801.5	1794.2	1828.8
27.5°	3179.4	3137.6	2801.3	2363.2	1950.5	1772.4	1712.4	1752.4	1768.8	1757.9	1772.4
30°	3337.6	3268.5	2746.8	2181.4	1759.7	1616.1	1627.0	1681.5	1708.8	1725.1	1703.3
32.5°	3504.8	3399.4	2634.1	1992.4	1590.6	1517.9	1543.4	1599.7	1632.4	1650.6	1670.6
35°	3746.6	3501.2	2519.5	1745.1	1468.8	1457.9	1472.5	1503.4	1550.6	1563.3	1568.8
37.5°	4044.7	3655.7	2365.0	1547.0	1374.3	1387.0	1401.6	1412.5	1414.3	1437.9	1428.8
40°	4342.8	3786.6	2139.6	1357.9	1276.1	1345.2	1337.9	1317.9	1301.6	1279.8	1274.3
42.5°	4604.6	3901.1	1888.7	1198.0	1188.9	1301.6	1277.9	1227.0	1188.9	1172.5	1145.2
45°	4899.1	4062.9	1636.1	1098.0	1121.6	1248.9	1241.6	1163.4	1114.3	1056.2	1048.9
47.5°	5280.8	4231.9	1394.3	994.4	1058.0	1228.9	1232.5	1132.5	1061.6	983.5	972.5
50°	5769.8	4475.5	1210.7	950.7	1019.8	1199.8	1205.2	1090.7	998.0	918.0	910.7
52.5°	6238.8	4724.6	1058.0	883.5	994.4	1165.2	1178.0	1052.5	945.3	845.3	850.8
55°	6475.2	4633.7	927.1	834.4	936.2	1108.9	1156.1	1025.3	865.3	796.2	794.4
57.5°	6527.9	4410.1	823.5	783.5	887.1	1048.9	1119.8	943.5	828.9	770.8	763.5
60°	6355.2	4019.3	741.7	729.0	825.3	987.1	1036.2	899.8	792.6	745.3	734.4
62.5°	5929.8	3613.9	685.3	703.5	772.6	919.8	983.5	868.9	758.0	725.3	701.7
65°	4862.7	2972.2	639.9	654.4	718.0	854.4	950.7	834.4	727.1	696.2	694.4
67.5°	3368.5	2048.7	603.5	630.8	674.4	807.1	918.0	796.2	687.1	676.2	661.7
70°	1725.1	1092.5	556.3	578.1	627.2	747.1	859.8	756.2	645.3	643.5	625.3
72.5°	874.4	639.9	501.7	534.4	569.0	669.0	787.1	703.5	592.6	572.6	543.5
73°	756.2	592.6	492.6	521.7	554.4	647.2	765.3	690.8	585.3	556.3	529.0
75°	550.8	467.2	441.7	470.8	496.3	583.5	692.6	632.6	538.1	507.2	481.7
77.5°	412.7	359.9	367.2	399.9	421.7	503.5	616.2	572.6	487.2	445.4	434.5
80°	303.6	274.5	303.6	334.5	350.8	443.6	561.7	496.3	410.8	363.6	354.5
82.5°	216.3	200.0	234.5	254.5	261.8	367.2	505.4	396.3	310.9	249.0	229.0
85°	123.6	121.8	158.2	156.3	161.8	214.5	332.7	263.6	200.0	152.7	149.1
87.5°	54.5	60.0	80.0	63.6	67.3	101.8	141.8	98.2	81.8	45.4	34.5
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)