

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: P478509

Luminaire Tested: **IFLD-S-SA3C-735-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478509  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

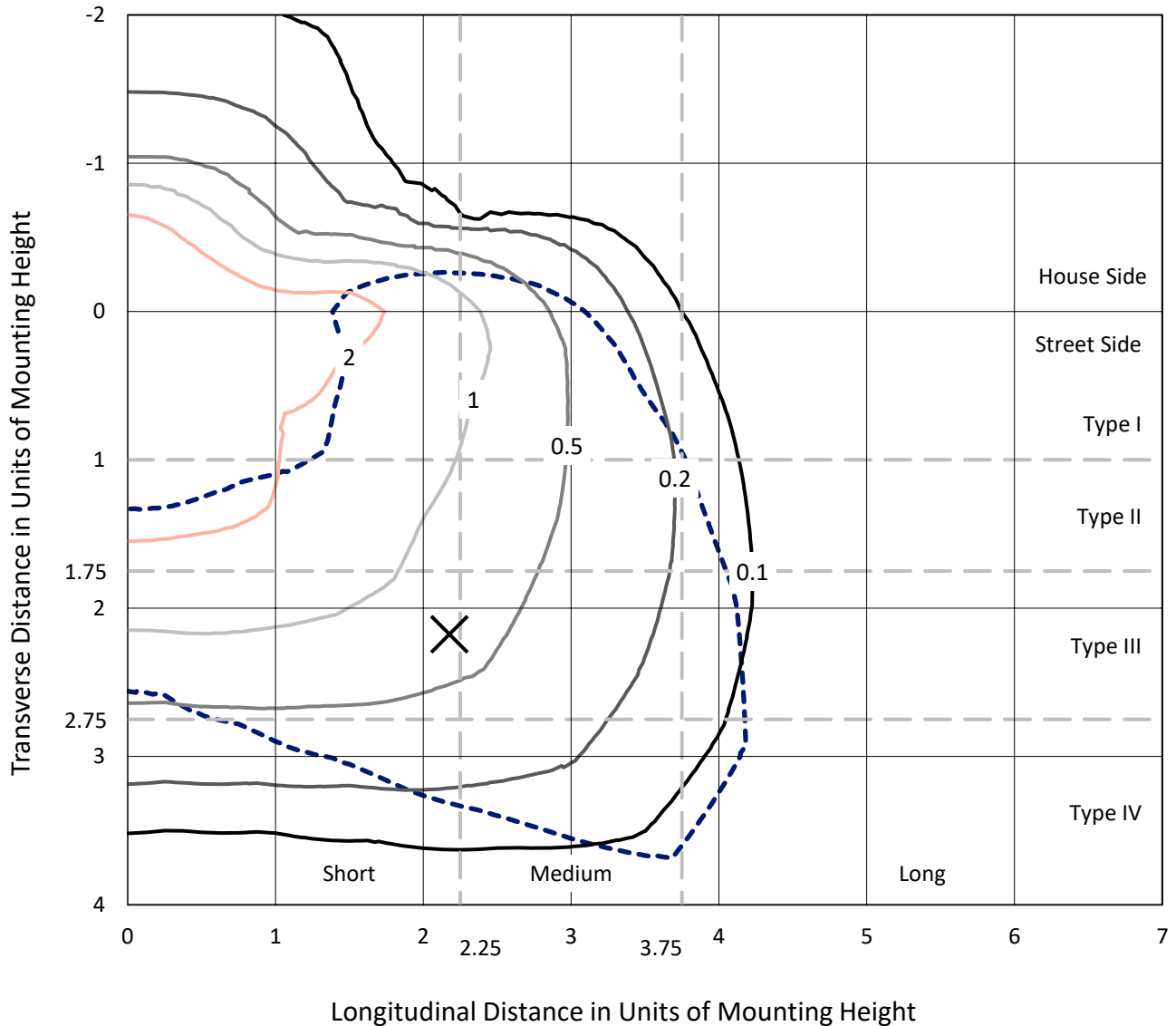
Lumens per Lamp: N/A  
Luminaire Lumens: 21117 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 160.8  
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

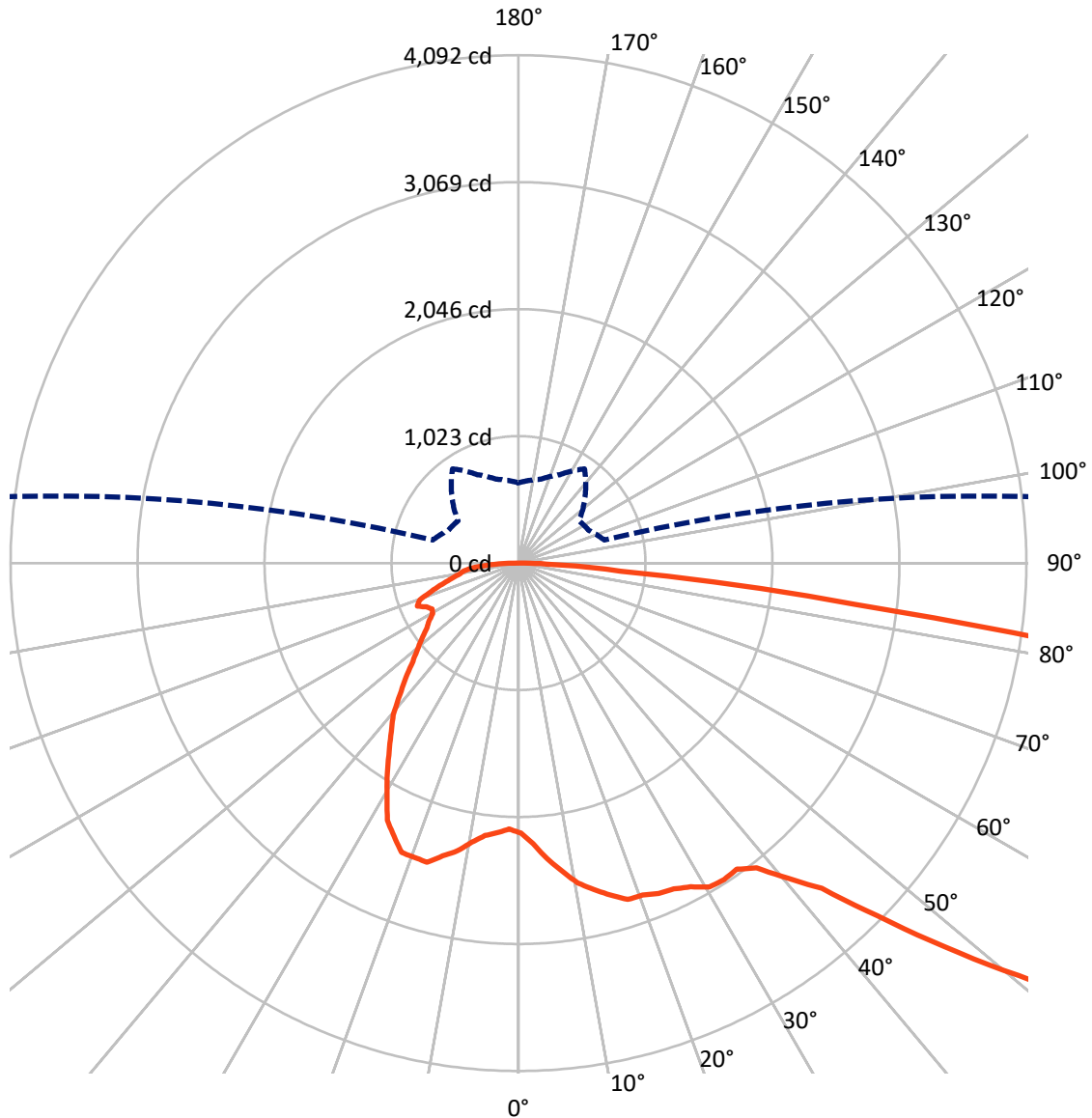
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4700.8	0.0	4700.8
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	16416.2	0.0	16416.2
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	21117.0	0.0	21117.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.5	1.1
10°-20°	740.4	3.5
20°-30°	1250.3	5.9
30°-40°	1730.2	8.2
40°-50°	2474.8	11.7
50°-60°	3991.7	18.9
60°-70°	5887.1	27.9
70°-80°	4275.1	20.2
80°-90°	545.0	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°	21117.0	100.0
0°-180°	21117.0	100.0

**Coefficient of Utilization**



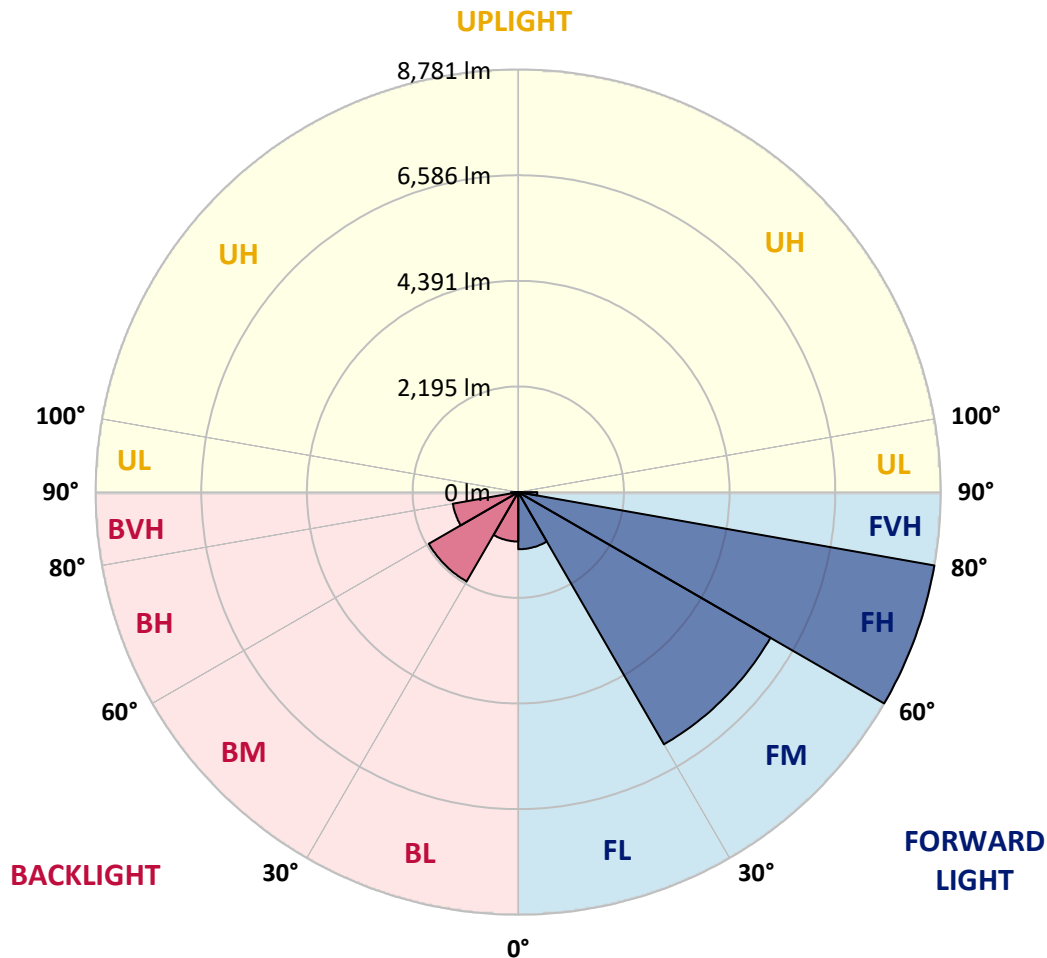
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.8	5.6			
FM (30°-60°)	6051.4	28.7			
FH (60°-80°)	8781.4	41.6			G4/12000
FVH (80°-90°)	396.7	1.9			G3/500
BL (0°-30°)	1026.4	4.9	B3/2500		
BM (30°-60°)	2145.3	10.2	B2/2500		
BH (60°-80°)	1380.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	148.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7
2.5°	2290.8	2304.5	2290.8	2288.5	2265.8	2249.8	2263.5	2243.0	2220.2	2211.1	2190.6
5°	2500.3	2502.6	2477.5	2479.8	2432.0	2381.9	2391.0	2329.5	2263.5	2238.4	2197.4
7.5°	2714.4	2689.3	2652.9	2641.5	2566.3	2511.7	2504.9	2450.2	2347.7	2290.8	2233.9
10°	2853.3	2862.4	2803.2	2753.1	2689.3	2623.3	2621.0	2518.5	2459.3	2375.1	2302.2
12.5°	2976.2	2978.5	2928.4	2848.7	2769.0	2687.0	2698.4	2652.9	2552.7	2473.0	2400.1
15°	3071.9	3058.2	3003.5	2930.7	2846.4	2782.7	2775.8	2737.1	2652.9	2586.8	2466.1
17.5°	3099.2	3092.4	3037.7	2960.3	2878.3	2830.5	2848.7	2784.9	2750.8	2691.6	2575.4
20°	3046.8	3030.9	3021.8	2935.2	2876.0	2871.5	2855.5	2869.2	2812.3	2757.6	2673.4
22.5°	2951.2	2944.3	2939.8	2871.5	2844.1	2864.6	2892.0	2912.5	2903.4	2851.0	2755.3
25°	2853.3	2885.1	2855.5	2823.7	2862.4	2914.7	2907.9	2973.9	2973.9	2958.0	2878.3
27.5°	2921.6	2901.1	2878.3	2862.4	2876.0	2958.0	2953.4	3033.1	3062.8	3033.1	2942.1
30°	3092.4	3071.9	3005.8	2935.2	2917.0	3005.8	3028.6	3099.2	3112.8	3040.0	2962.6
32.5°	3413.4	3402.0	3297.3	3090.1	2978.5	3028.6	3040.0	3119.7	3108.3	3062.8	3030.9
35°	3889.4	3850.6	3704.9	3354.2	3108.3	3058.2	3028.6	3092.4	3135.6	3112.8	3083.2
37.5°	4410.8	4367.6	4187.7	3743.6	3342.8	3137.9	3115.1	3167.5	3217.6	3206.2	3144.7
40°	4909.5	4909.5	4747.8	4230.9	3691.2	3331.5	3336.0	3276.8	3322.3	3301.9	3313.2
42.5°	5401.4	5383.2	5317.1	4802.5	4064.7	3654.8	3581.9	3433.9	3515.9	3509.1	3525.0
45°	5900.1	5886.4	5868.2	5335.3	4599.8	4092.0	4053.3	3786.9	3862.0	3830.1	3898.5
47.5°	6298.6	6314.5	6314.5	5929.7	5171.4	4675.0	4618.0	4196.8	4340.2	4356.2	4372.1
50°	6637.9	6644.7	6637.9	6496.7	5809.0	5342.2	5226.0	4797.9	4941.4	5066.6	5212.4
52.5°	7107.0	7116.1	7084.2	7029.5	6674.3	6043.5	5913.7	5437.8	5731.6	5863.6	6125.5
55°	7685.3	7617.0	7557.8	7598.8	7505.5	6815.5	6681.1	6098.2	6539.9	6715.3	7239.0
57.5°	7792.4	7851.6	8001.9	8327.5	8461.9	7566.9	7489.5	6908.8	7453.1	7605.6	8480.1
60°	8170.4	8072.5	8441.4	9147.3	9297.6	8546.1	8466.4	7796.9	8361.7	8521.1	9625.5
62.5°	8418.6	8414.0	8960.5	9798.5	10140.1	9561.7	9400.0	8951.4	9343.1	9497.9	10873.3
65°	8345.7	8411.8	9381.8	10181.1	10843.7	10716.2	10622.9	9944.3	10461.2	10447.5	11686.3
67.5°	7680.8	7867.5	9115.4	10456.6	11891.2	12123.5	12093.9	11340.2	11369.8	11080.6	12048.3
70°	6758.5	6694.8	7988.2	10169.7	12415.0	13792.6	13785.8	12378.5	12187.3	11219.5	11010.0
72°	5191.9	5121.3	6184.7	8732.8	12139.4	14459.8	14664.8	13098.1	12178.1	10643.3	9094.9
72.5°	4713.7	4652.2	5711.1	8220.5	11834.3	14632.9	14537.3	13125.4	12082.5	10372.4	8496.0
75°	2170.1	2099.5	2853.3	5032.5	9231.5	12966.0	13291.7	12282.9	10552.3	8256.9	5089.4
77.5°	646.7	626.2	917.7	2031.2	5364.9	9552.6	9677.8	9268.0	7366.5	4522.4	1887.7
80°	359.8	362.1	473.6	760.6	2359.1	5522.1	5972.9	5724.7	3613.8	1493.8	628.5
82.5°	200.4	211.8	296.0	450.9	1083.9	2534.5	2728.0	2630.1	1307.1	701.4	343.8
85°	104.7	109.3	154.8	241.4	614.8	801.6	824.3	883.5	678.6	478.2	184.4
87.5°	41.0	41.0	56.9	100.2	227.7	248.2	223.2	271.0	389.4	309.7	91.1
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°	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7	2174.7
2.5°	2208.8	2190.6	2188.3	2158.7	2167.8	2142.8	2145.1	2140.5	2142.8	2138.2	2126.8
5°	2197.4	2183.8	2145.1	2170.1	2147.3	2179.2	2204.3	2195.2	2202.0	2199.7	2202.0
7.5°	2213.4	2195.2	2190.6	2176.9	2197.4	2211.1	2231.6	2288.5	2284.0	2290.8	2304.5
10°	2261.2	2240.7	2227.0	2247.5	2236.2	2279.4	2302.2	2331.8	2384.2	2386.4	2359.1
12.5°	2354.6	2340.9	2313.6	2318.1	2356.8	2370.5	2384.2	2402.4	2436.5	2429.7	2454.8
15°	2461.6	2432.0	2416.0	2411.5	2420.6	2436.5	2434.3	2452.5	2470.7	2486.6	2479.8
17.5°	2539.0	2500.3	2504.9	2527.6	2525.3	2520.8	2491.2	2482.1	2491.2	2500.3	2495.7
20°	2618.7	2623.3	2589.1	2568.6	2559.5	2514.0	2491.2	2463.9	2436.5	2450.2	2470.7
22.5°	2718.9	2698.4	2648.3	2586.8	2541.3	2514.0	2443.4	2395.6	2395.6	2409.2	2402.4
25°	2832.8	2789.5	2703.0	2591.4	2534.5	2418.3	2368.2	2361.4	2343.2	2363.7	2372.8
27.5°	2921.6	2882.9	2764.4	2575.4	2418.3	2325.0	2295.4	2286.2	2315.9	2318.1	2354.6
30°	2958.0	2946.6	2773.6	2534.5	2299.9	2149.6	2131.4	2172.4	2204.3	2252.1	2254.4
32.5°	3005.8	3010.4	2787.2	2438.8	2145.1	1994.8	1967.4	2017.5	2108.6	2147.3	2176.9
35°	3085.5	3108.3	2775.8	2320.4	1981.1	1837.7	1833.1	1846.8	1935.6	2003.9	2042.6
37.5°	3224.4	3219.9	2773.6	2179.2	1851.3	1701.0	1664.6	1669.1	1728.3	1785.3	1778.4
40°	3411.2	3392.9	2766.7	1994.8	1682.8	1584.9	1523.4	1500.6	1496.1	1480.1	1484.7
42.5°	3666.2	3629.8	2764.4	1808.0	1530.2	1425.5	1382.2	1323.0	1279.8	1197.8	1202.3
45°	4021.4	3957.7	2705.2	1632.7	1379.9	1293.4	1227.4	1184.1	1090.7	988.3	988.3
47.5°	4570.2	4363.0	2707.5	1439.2	1234.2	1163.6	1118.1	1042.9	942.7	860.8	851.7
50°	5378.6	4905.0	2630.1	1286.6	1115.8	1068.0	1020.2	933.6	838.0	781.1	787.9
52.5°	6421.5	5713.3	2627.8	1150.0	1022.4	988.3	935.9	858.5	787.9	751.5	737.8
55°	7664.9	6783.6	2709.8	1038.4	926.8	908.6	885.8	822.0	753.7	721.9	719.6
57.5°	8937.8	7828.8	2841.9	958.7	844.8	858.5	842.5	792.4	737.8	701.4	696.8
60°	10069.5	8657.7	2575.4	863.0	772.0	801.6	824.3	781.1	751.5	749.2	733.2
62.5°	10923.4	9012.9	1958.3	790.2	733.2	787.9	849.4	876.7	863.0	881.3	883.5
65°	11235.4	8798.9	1348.1	751.5	703.6	819.8	956.4	947.3	867.6	833.4	851.7
67.5°	10798.2	7931.3	999.7	705.9	683.1	885.8	1017.9	904.0	783.3	778.8	765.1
70°	9286.2	6722.1	815.2	658.1	649.0	849.4	990.6	838.0	737.8	708.2	694.5
72°	7398.4	5235.1	715.0	623.9	594.3	758.3	926.8	785.6	699.1	662.6	646.7
72.5°	6754.0	4852.6	701.4	608.0	582.9	737.8	894.9	769.7	690.0	658.1	633.0
75°	3704.9	2484.4	617.1	557.9	491.9	637.6	828.9	721.9	651.3	605.7	601.2
77.5°	1377.7	963.2	532.9	494.1	425.8	551.1	753.7	685.4	592.1	535.1	523.7
80°	528.3	507.8	434.9	416.7	357.5	482.8	694.5	614.8	503.2	446.3	428.1
82.5°	321.1	296.0	330.2	325.6	273.3	439.5	653.5	576.1	446.3	362.1	350.7
85°	175.3	175.3	230.0	220.9	191.3	350.7	494.1	382.6	282.4	232.3	236.8
87.5°	77.4	91.1	123.0	116.1	104.7	198.1	241.4	202.7	141.2	95.6	102.5
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)