

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: P478405

Luminaire Tested: **IFLD-S-SA6A-722-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478405  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-722-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

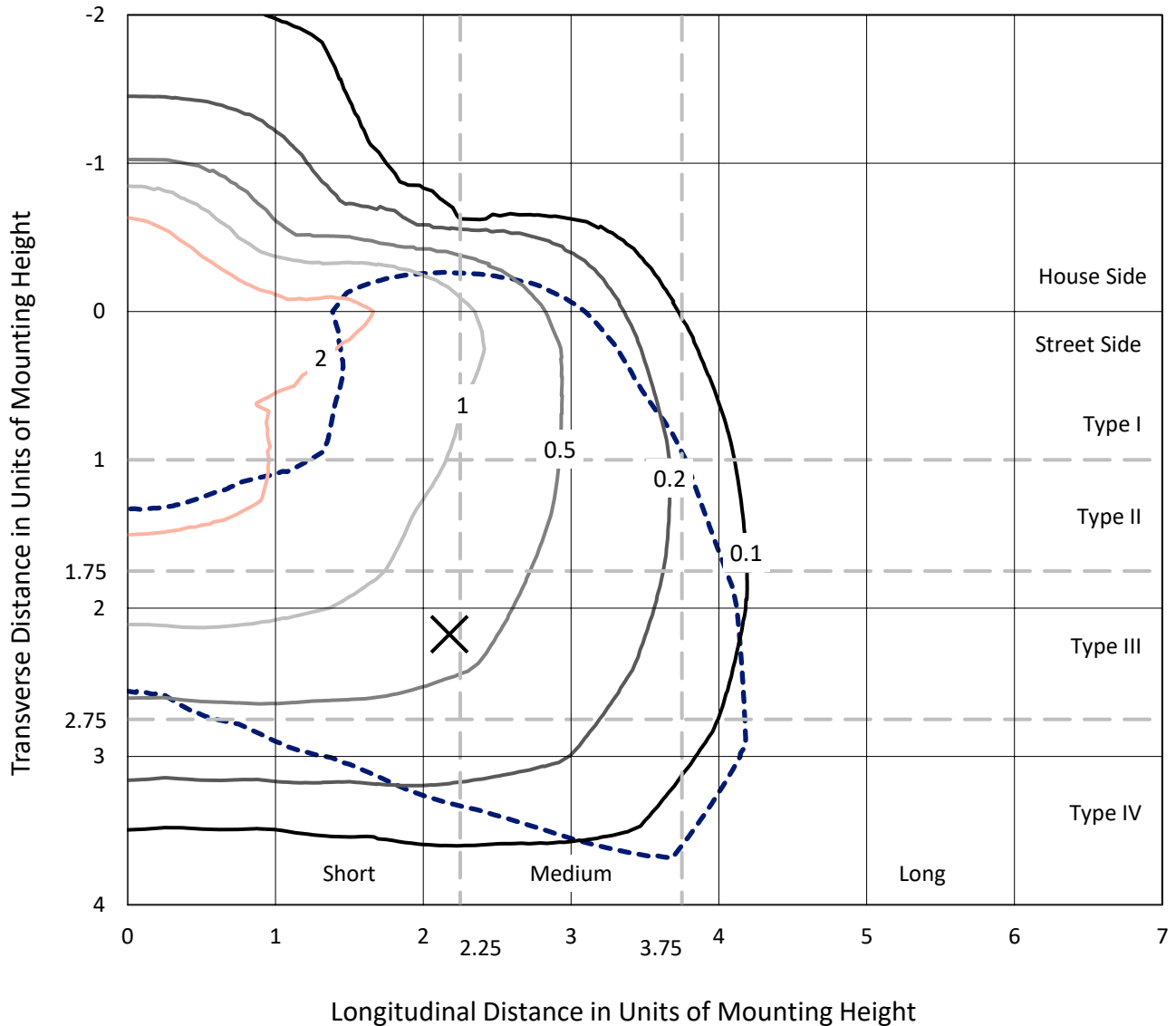
Lumens per Lamp: N/A  
Luminaire Lumens: 20095.1 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6  
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

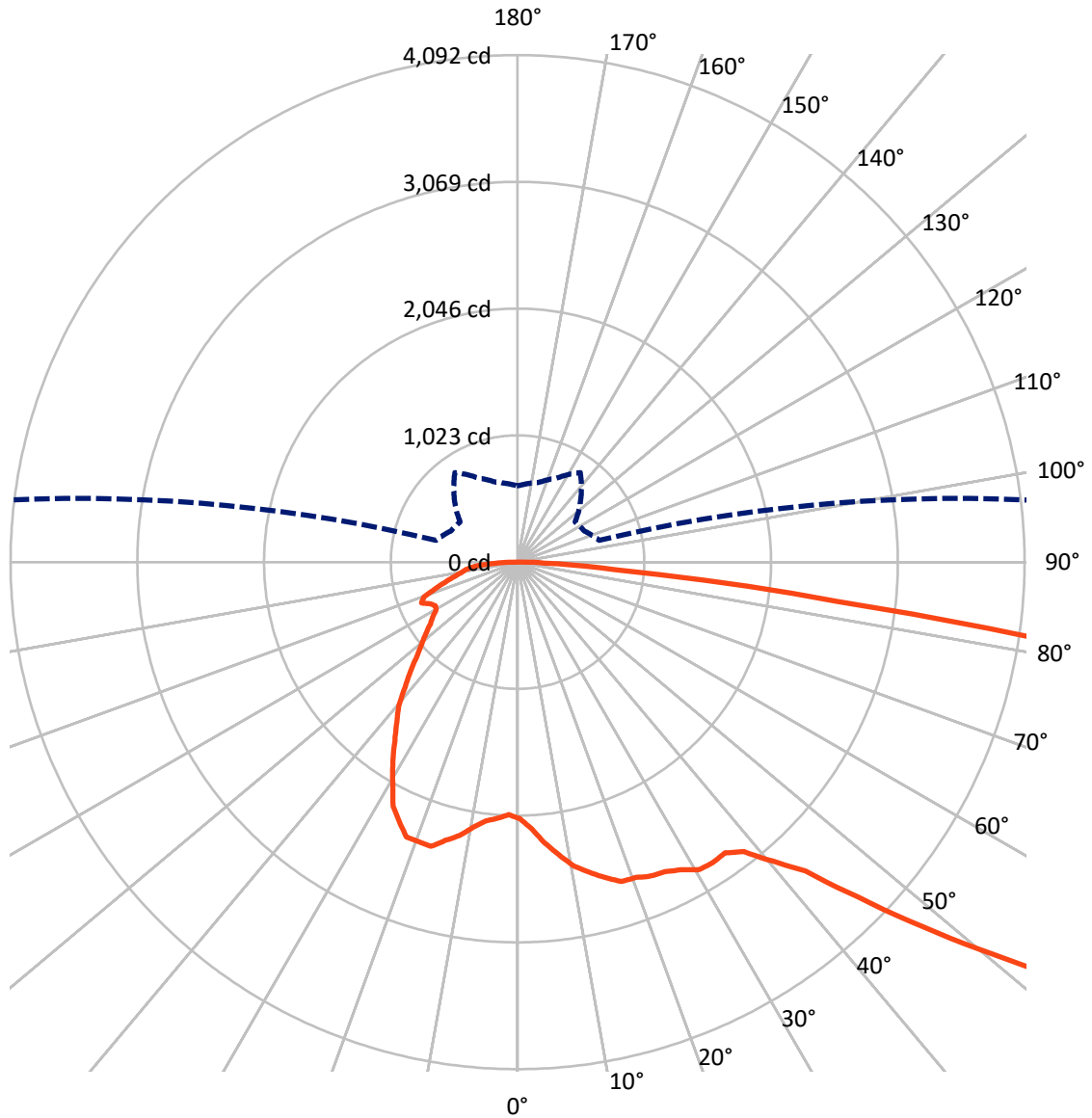
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	4473.3	0.0	4473.3
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	15621.8	0.0	15621.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	20095.1	0.0	20095.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.8	1.1
10°-20°	704.5	3.5
20°-30°	1189.8	5.9
30°-40°	1646.4	8.2
40°-50°	2355.1	11.7
50°-60°	3798.5	18.9
60°-70°	5602.2	27.9
70°-80°	4068.2	20.2
80°-90°	518.6	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°	20095.1	100.0
0°-180°	20095.1	100.0

**Coefficient of Utilization**



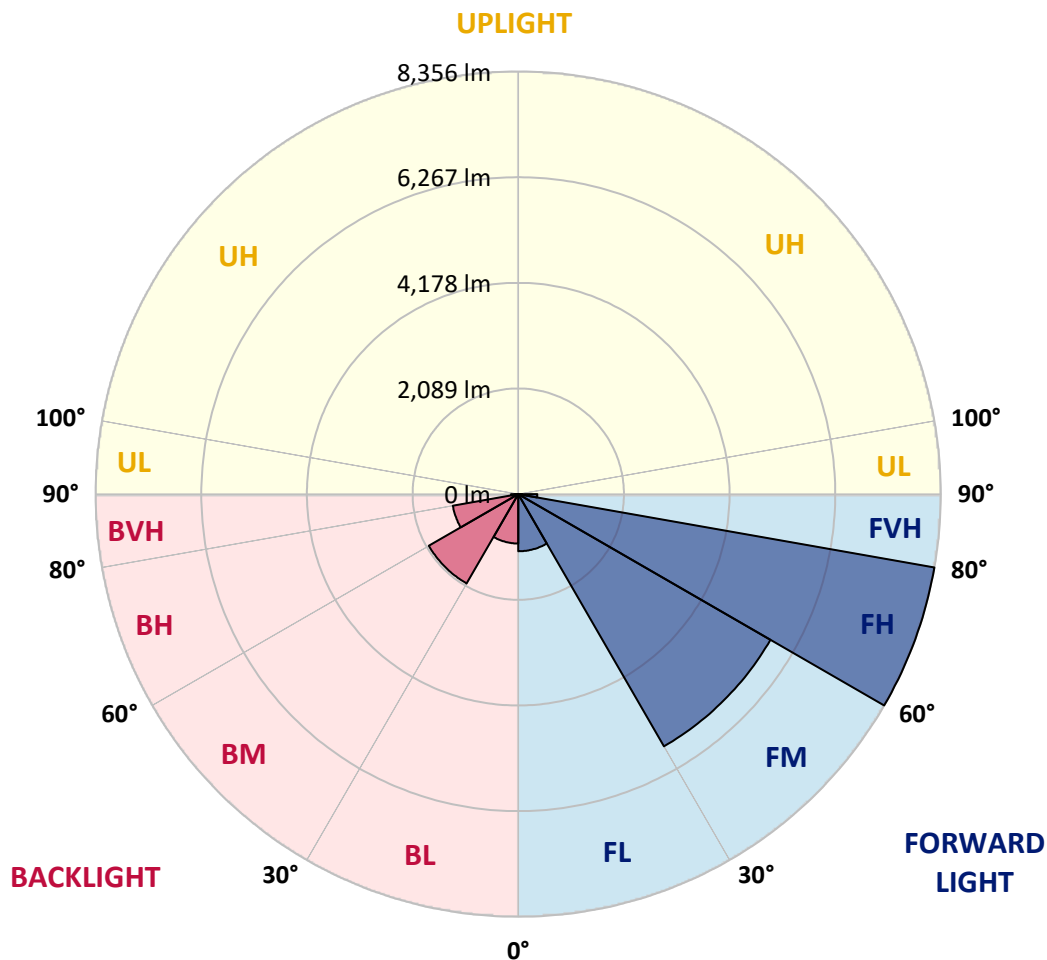
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.4	5.6			
FM (30°-60°)	5758.6	28.7			
FH (60°-80°)	8356.4	41.6			G4/12000
FVH (80°-90°)	377.5	1.9			G3/500
BL (0°-30°)	976.7	4.9	B2/1000		
BM (30°-60°)	2041.5	10.2	B2/2500		
BH (60°-80°)	1314.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	141.1	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°	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4
2.5°	2179.9	2192.9	2179.9	2177.8	2156.1	2140.9	2153.9	2134.4	2112.8	2104.1	2084.6
5°	2379.3	2381.5	2357.6	2359.8	2314.3	2266.6	2275.3	2216.8	2153.9	2130.1	2091.1
7.5°	2583.0	2559.2	2524.5	2513.7	2442.1	2390.1	2383.6	2331.6	2234.1	2179.9	2125.8
10°	2715.2	2723.8	2667.5	2619.8	2559.2	2496.3	2494.2	2396.6	2340.3	2260.1	2190.8
12.5°	2832.2	2834.4	2786.7	2710.8	2635.0	2557.0	2567.8	2524.5	2429.1	2353.3	2284.0
15°	2923.2	2910.2	2858.2	2788.9	2708.7	2648.0	2641.5	2604.7	2524.5	2461.6	2346.8
17.5°	2949.2	2942.7	2890.7	2817.0	2739.0	2693.5	2710.8	2650.2	2617.7	2561.3	2450.8
20°	2899.4	2884.2	2875.5	2793.2	2736.9	2732.5	2717.3	2730.3	2676.2	2624.2	2544.0
22.5°	2808.4	2801.9	2797.5	2732.5	2706.5	2726.0	2752.0	2771.5	2762.9	2713.0	2622.0
25°	2715.2	2745.5	2717.3	2687.0	2723.8	2773.7	2767.2	2830.0	2830.0	2814.9	2739.0
27.5°	2780.2	2760.7	2739.0	2723.8	2736.9	2814.9	2810.5	2886.4	2914.5	2886.4	2799.7
30°	2942.7	2923.2	2860.4	2793.2	2775.9	2860.4	2882.0	2949.2	2962.2	2892.9	2819.2
32.5°	3248.2	3237.4	3137.7	2940.5	2834.4	2882.0	2892.9	2968.7	2957.9	2914.5	2884.2
35°	3701.1	3664.3	3525.6	3191.9	2957.9	2910.2	2882.0	2942.7	2983.9	2962.2	2934.0
37.5°	4197.4	4156.2	3985.0	3562.5	3181.1	2986.0	2964.4	3014.2	3061.9	3051.1	2992.5
40°	4671.9	4671.9	4518.1	4026.2	3512.6	3170.2	3174.6	3118.2	3161.6	3142.1	3152.9
42.5°	5140.0	5122.7	5059.8	4570.1	3868.0	3477.9	3408.6	3267.8	3345.8	3339.3	3354.4
45°	5614.6	5601.6	5584.2	5077.1	4377.2	3894.0	3857.2	3603.6	3675.1	3644.8	3709.8
47.5°	5993.8	6008.9	6008.9	5642.7	4921.1	4448.7	4394.6	3993.7	4130.2	4145.4	4160.5
50°	6316.6	6323.1	6316.6	6182.3	5527.9	5083.7	4973.1	4565.8	4702.3	4821.5	4960.1
52.5°	6763.0	6771.7	6741.4	6689.4	6351.3	5751.1	5627.6	5174.7	5454.2	5579.9	5829.1
55°	7313.4	7248.4	7192.1	7231.1	7142.2	6485.7	6357.8	5803.1	6223.5	6390.3	6888.7
57.5°	7415.3	7471.6	7614.6	7924.5	8052.4	7200.8	7127.1	6574.5	7092.4	7237.6	8069.7
60°	7775.0	7681.8	8032.9	8704.6	8847.6	8132.5	8056.7	7419.6	7957.0	8108.7	9159.7
62.5°	8011.2	8006.9	8526.9	9324.4	9649.4	9099.0	8945.1	8518.3	8891.0	9038.3	10347.2
65°	7941.9	8004.7	8927.8	9688.4	10319.0	10197.6	10108.8	9463.0	9954.9	9941.9	11120.8
67.5°	7309.1	7486.8	8674.3	9950.6	11315.8	11536.8	11508.6	10791.4	10819.6	10544.3	11465.3
70°	6431.5	6370.8	7601.6	9677.6	11814.2	13125.2	13118.7	11779.5	11597.5	10676.5	10477.2
72°	4940.6	4873.5	5885.4	8310.2	11552.0	13760.1	13955.1	12464.3	11588.8	10128.3	8654.8
72.5°	4485.6	4427.1	5434.7	7822.7	11261.6	13924.8	13833.8	12490.3	11497.8	9870.4	8084.9
75°	2065.1	1997.9	2715.2	4788.9	8784.8	12338.6	12648.5	11688.5	10041.6	7857.3	4843.1
77.5°	615.4	595.9	873.3	1932.9	5105.3	9090.3	9209.5	8819.5	7010.1	4303.6	1796.4
80°	342.4	344.5	450.7	723.8	2245.0	5254.8	5683.9	5447.7	3438.9	1421.5	598.1
82.5°	190.7	201.5	281.7	429.1	1031.5	2411.8	2596.0	2502.8	1243.8	667.4	327.2
85°	99.7	104.0	147.4	229.7	585.1	762.8	784.4	840.8	645.7	455.1	175.5
87.5°	39.0	39.0	54.2	95.3	216.7	236.2	212.4	257.9	370.5	294.7	86.7
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°	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4	2069.4
2.5°	2101.9	2084.6	2082.4	2054.3	2062.9	2039.1	2041.3	2036.9	2039.1	2034.8	2023.9
5°	2091.1	2078.1	2041.3	2065.1	2043.4	2073.8	2097.6	2088.9	2095.4	2093.3	2095.4
7.5°	2106.3	2088.9	2084.6	2071.6	2091.1	2104.1	2123.6	2177.8	2173.4	2179.9	2192.9
10°	2151.8	2132.3	2119.3	2138.8	2127.9	2169.1	2190.8	2219.0	2268.8	2271.0	2245.0
12.5°	2240.6	2227.6	2201.6	2205.9	2242.8	2255.8	2268.8	2286.1	2318.6	2312.1	2336.0
15°	2342.5	2314.3	2299.1	2294.8	2303.5	2318.6	2316.5	2333.8	2351.1	2366.3	2359.8
17.5°	2416.1	2379.3	2383.6	2405.3	2403.1	2398.8	2370.6	2362.0	2370.6	2379.3	2375.0
20°	2492.0	2496.3	2463.8	2444.3	2435.6	2392.3	2370.6	2344.6	2318.6	2331.6	2351.1
22.5°	2587.3	2567.8	2520.2	2461.6	2418.3	2392.3	2325.1	2279.6	2279.6	2292.6	2286.1
25°	2695.7	2654.5	2572.2	2466.0	2411.8	2301.3	2253.6	2247.1	2229.8	2249.3	2258.0
27.5°	2780.2	2743.4	2630.7	2450.8	2301.3	2212.4	2184.3	2175.6	2203.8	2205.9	2240.6
30°	2814.9	2804.0	2639.3	2411.8	2188.6	2045.6	2028.3	2067.3	2097.6	2143.1	2145.3
32.5°	2860.4	2864.7	2652.3	2320.8	2041.3	1898.2	1872.2	1919.9	2006.6	2043.4	2071.6
35°	2936.2	2957.9	2641.5	2208.1	1885.2	1748.7	1744.4	1757.4	1841.9	1906.9	1943.7
37.5°	3068.4	3064.1	2639.3	2073.8	1761.7	1618.7	1584.0	1588.4	1644.7	1698.9	1692.4
40°	3246.1	3228.7	2632.8	1898.2	1601.4	1508.2	1449.7	1428.0	1423.7	1408.5	1412.8
42.5°	3488.8	3454.1	2630.7	1720.6	1456.2	1356.5	1315.3	1259.0	1217.8	1139.8	1144.1
45°	3826.8	3766.1	2574.3	1553.7	1313.2	1230.8	1168.0	1126.8	1038.0	940.5	940.5
47.5°	4349.1	4151.9	2576.5	1369.5	1174.5	1107.3	1064.0	992.5	897.1	819.1	810.4
50°	5118.3	4667.6	2502.8	1224.3	1061.8	1016.3	970.8	888.4	797.4	743.3	749.8
52.5°	6110.8	5436.9	2500.7	1094.3	973.0	940.5	890.6	816.9	749.8	715.1	702.1
55°	7293.9	6455.3	2578.7	988.1	881.9	864.6	842.9	782.3	717.3	686.9	684.8
57.5°	8505.3	7450.0	2704.3	912.3	803.9	816.9	801.8	754.1	702.1	667.4	663.1
60°	9582.2	8238.7	2450.8	821.3	734.6	762.8	784.4	743.3	715.1	712.9	697.8
62.5°	10394.8	8576.8	1863.6	751.9	697.8	749.8	808.3	834.3	821.3	838.6	840.8
65°	10691.7	8373.1	1282.8	715.1	669.6	780.1	910.1	901.4	825.6	793.1	810.4
67.5°	10275.6	7547.5	951.3	671.8	650.1	842.9	968.6	860.3	745.4	741.1	728.1
70°	8836.8	6396.8	775.8	626.2	617.6	808.3	942.6	797.4	702.1	673.9	660.9
72°	7040.4	4981.8	680.4	593.7	565.6	721.6	881.9	747.6	665.3	630.6	615.4
72.5°	6427.2	4617.8	667.4	578.6	554.7	702.1	851.6	732.4	656.6	626.2	602.4
75°	3525.6	2364.1	587.2	530.9	468.1	606.7	788.8	686.9	619.7	576.4	572.1
77.5°	1311.0	916.6	507.1	470.2	405.2	524.4	717.3	652.3	563.4	509.2	498.4
80°	502.7	483.2	413.9	396.6	340.2	459.4	660.9	585.1	478.9	424.7	407.4
82.5°	305.5	281.7	314.2	309.9	260.0	418.2	621.9	548.2	424.7	344.5	333.7
85°	166.9	166.9	218.9	210.2	182.0	333.7	470.2	364.0	268.7	221.0	225.4
87.5°	73.7	86.7	117.0	110.5	99.7	188.5	229.7	192.9	134.4	91.0	97.5
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)