

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: P478394

Luminaire Tested: **IFLD-S-SA3E-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478394
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

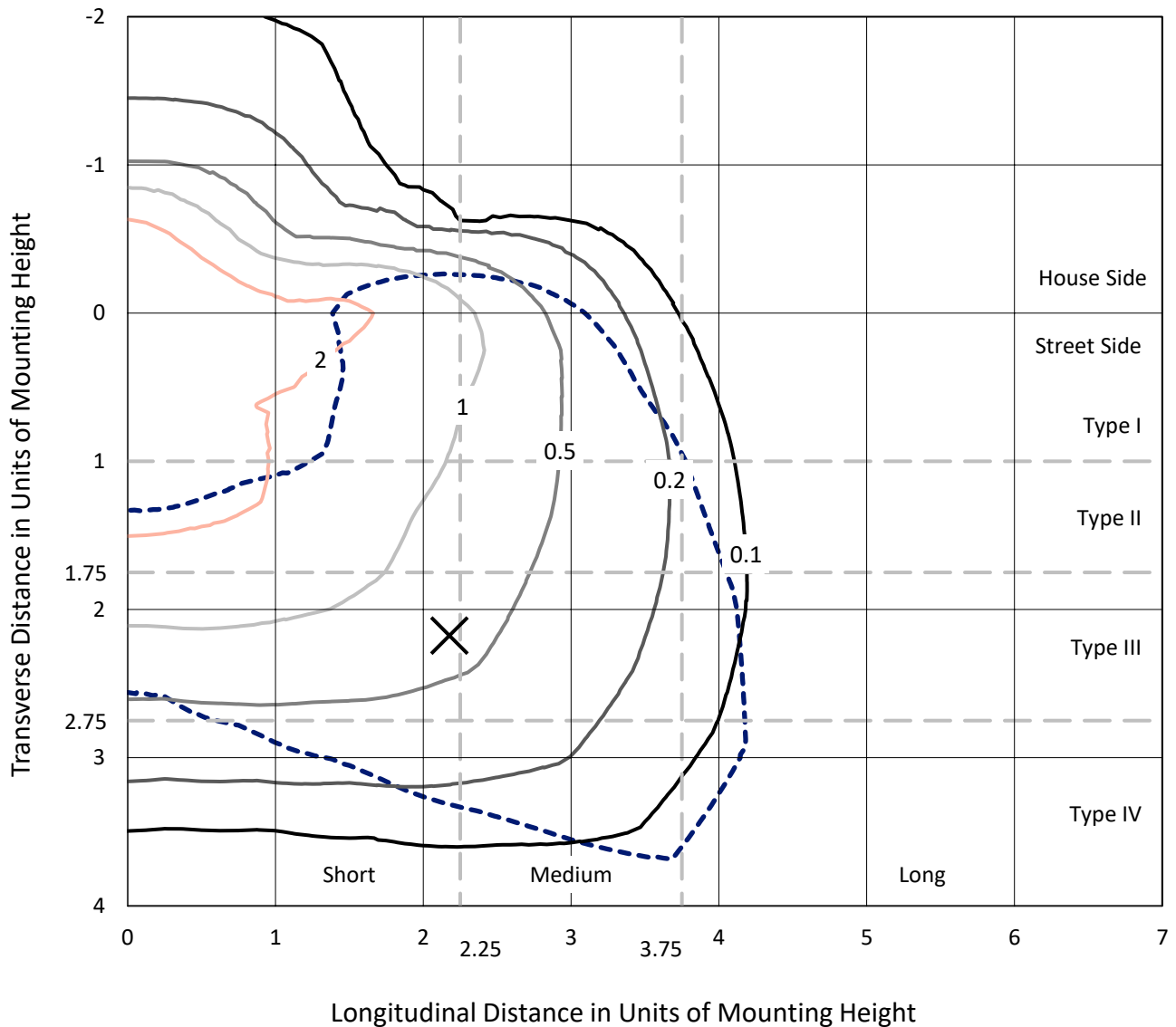
Lumens per Lamp: N/A
Luminaire Lumens: 20082.7 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

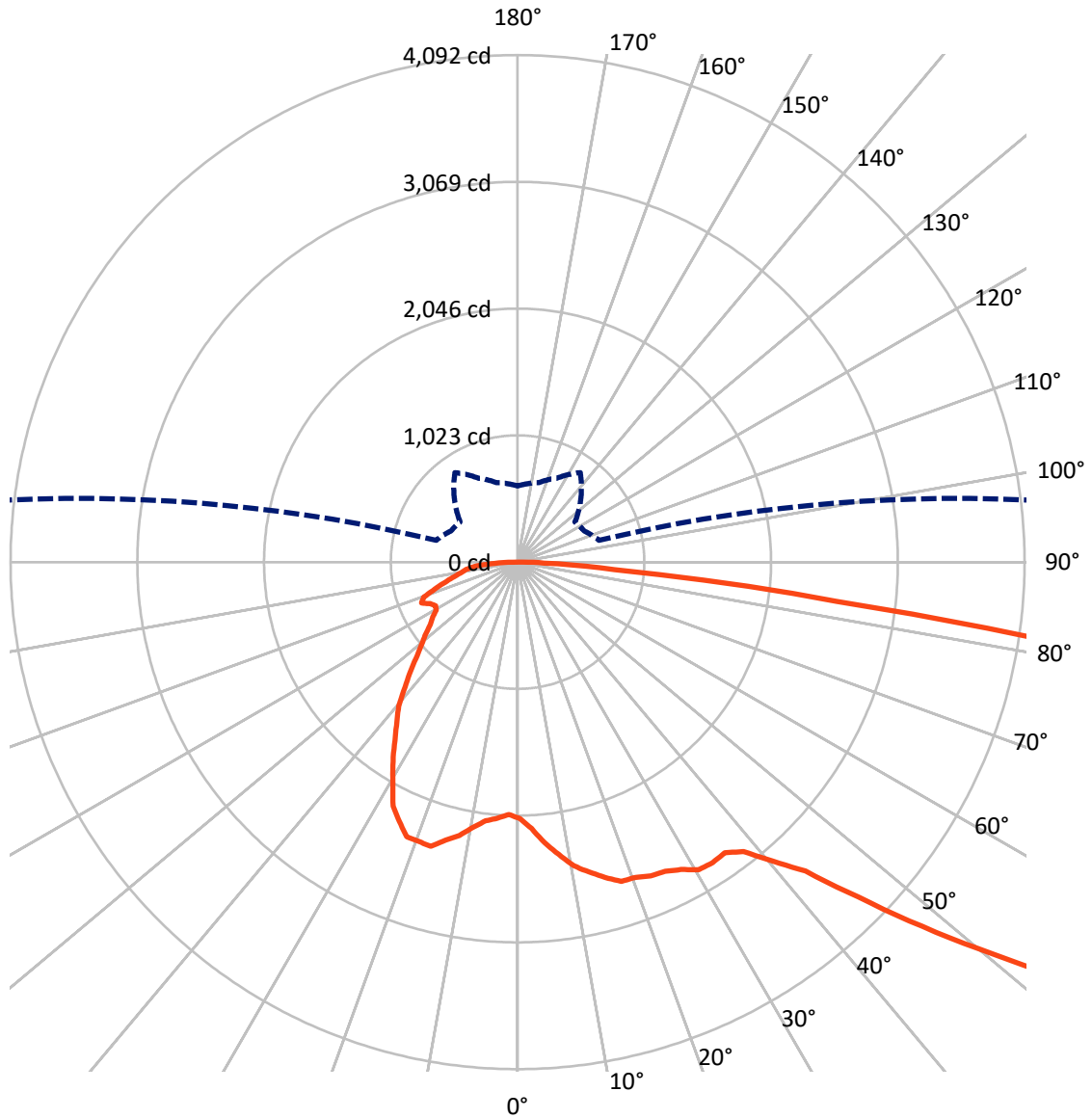
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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
House Side	Lumens	4470.5	0.0	4470.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	15612.2	0.0	15612.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	20082.7	0.0	20082.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.1
10°-20°	704.1	3.5
20°-30°	1189.0	5.9
30°-40°	1645.4	8.2
40°-50°	2353.6	11.7
50°-60°	3796.2	18.9
60°-70°	5598.8	27.9
70°-80°	4065.7	20.2
80°-90°	518.3	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°	20082.7	100.0
0°-180°	20082.7	100.0

Coefficient of Utilization



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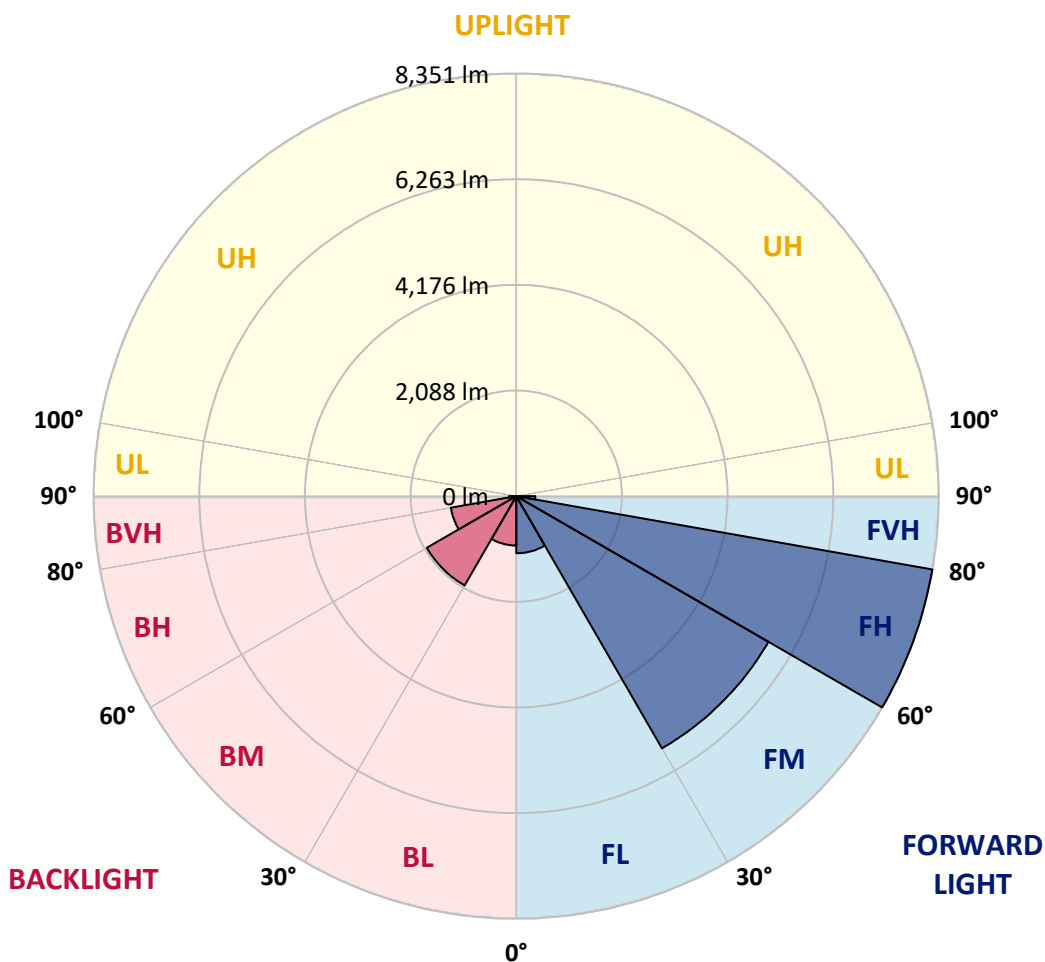
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.7	5.6			
FM (30°-60°)	5755.0	28.7			
FH (60°-80°)	8351.3	41.6			G4/12000
FVH (80°-90°)	377.2	1.9			G3/500
BL (0°-30°)	976.1	4.9	B2/1000		
BM (30°-60°)	2040.2	10.2	B2/2500		
BH (60°-80°)	1313.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	141.0	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°	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2
2.5°	2178.6	2191.6	2178.6	2176.4	2154.8	2139.6	2152.6	2133.1	2111.5	2102.8	2083.3
5°	2377.8	2380.0	2356.2	2358.4	2312.9	2265.2	2273.9	2215.4	2152.6	2128.8	2089.8
7.5°	2581.4	2557.6	2522.9	2512.1	2440.6	2388.7	2382.2	2330.2	2232.7	2178.6	2124.5
10°	2713.5	2722.2	2665.9	2618.2	2557.6	2494.8	2492.6	2395.2	2338.9	2258.7	2189.4
12.5°	2830.5	2832.6	2785.0	2709.2	2633.4	2555.4	2566.2	2522.9	2427.7	2351.9	2282.6
15°	2921.4	2908.4	2856.4	2787.1	2707.0	2646.4	2639.9	2603.1	2522.9	2460.1	2345.4
17.5°	2947.4	2940.9	2888.9	2815.3	2737.3	2691.9	2709.2	2648.5	2616.1	2559.8	2449.3
20°	2897.6	2882.4	2873.8	2791.5	2735.2	2730.8	2715.7	2728.7	2674.5	2622.6	2542.4
22.5°	2806.6	2800.1	2795.8	2730.8	2704.8	2724.3	2750.3	2769.8	2761.2	2711.3	2620.4
25°	2713.5	2743.8	2715.7	2685.4	2722.2	2772.0	2765.5	2828.3	2828.3	2813.1	2737.3
27.5°	2778.5	2759.0	2737.3	2722.2	2735.2	2813.1	2808.8	2884.6	2912.7	2884.6	2798.0
30°	2940.9	2921.4	2858.6	2791.5	2774.1	2858.6	2880.3	2947.4	2960.4	2891.1	2817.5
32.5°	3246.3	3235.4	3135.8	2938.7	2832.6	2880.3	2891.1	2966.9	2956.1	2912.7	2882.4
35°	3698.9	3662.0	3523.5	3189.9	2956.1	2908.4	2880.3	2940.9	2982.0	2960.4	2932.2
37.5°	4194.8	4153.6	3982.6	3560.3	3179.1	2984.2	2962.6	3012.4	3060.0	3049.2	2990.7
40°	4669.1	4669.1	4515.3	4023.7	3510.5	3168.3	3172.6	3116.3	3159.6	3140.1	3151.0
42.5°	5136.8	5119.5	5056.7	4567.3	3865.6	3475.8	3406.5	3265.7	3343.7	3337.2	3352.4
45°	5611.1	5598.1	5580.8	5074.0	4374.5	3891.6	3854.8	3601.4	3672.9	3642.6	3707.5
47.5°	5990.1	6005.2	6005.2	5639.3	4918.1	4446.0	4391.9	3991.2	4127.7	4142.8	4158.0
50°	6312.8	6319.3	6312.8	6178.5	5524.5	5080.5	4970.1	4562.9	4699.4	4818.5	4957.1
52.5°	6758.9	6767.5	6737.2	6685.2	6347.4	5747.5	5624.1	5171.5	5450.8	5576.5	5825.5
55°	7308.9	7244.0	7187.7	7226.6	7137.9	6481.7	6353.9	5799.5	6219.6	6386.4	6884.5
57.5°	7410.7	7467.0	7610.0	7919.6	8047.4	7196.3	7122.7	6570.5	7088.0	7233.1	8064.7
60°	7770.2	7677.1	8027.9	8699.3	8842.2	8127.5	8051.7	7415.1	7952.1	8103.7	9154.0
62.5°	8006.3	8001.9	8521.7	9318.6	9643.5	9093.4	8939.6	8513.0	8885.5	9032.8	10340.8
65°	7937.0	7999.8	8922.3	9682.5	10312.6	10191.4	10102.6	9457.2	9948.8	9935.8	11113.9
67.5°	7304.6	7482.2	8668.9	9944.5	11308.8	11529.7	11501.6	10784.7	10812.9	10537.9	11458.3
70°	6427.5	6366.9	7597.0	9671.6	11806.9	13117.1	13110.6	11772.3	11590.4	10670.0	10470.7
72°	4937.6	4870.5	5881.8	8305.1	11544.9	13751.6	13946.5	12456.6	11581.7	10122.1	8649.5
72.5°	4482.8	4424.3	5431.4	7817.9	11254.7	13916.2	13825.3	12482.6	11490.7	9864.4	8079.9
75°	2063.8	1996.7	2713.5	4786.0	8779.4	12331.0	12640.7	11681.3	10035.4	7852.5	4840.1
77.5°	615.0	595.5	872.7	1931.7	5102.2	9084.7	9203.9	8814.0	7005.8	4300.9	1795.3
80°	342.2	344.3	450.4	723.3	2243.6	5251.6	5680.4	5444.3	3436.8	1420.6	597.7
82.5°	190.6	201.4	281.5	428.8	1030.8	2410.3	2594.4	2501.3	1243.1	667.0	327.0
85°	99.6	103.9	147.3	229.6	584.7	762.3	784.0	840.3	645.4	454.8	175.4
87.5°	39.0	39.0	54.1	95.3	216.6	236.1	212.2	257.7	370.3	294.5	86.6
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°	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2	2068.2
2.5°	2100.6	2083.3	2081.2	2053.0	2061.7	2037.8	2040.0	2035.7	2037.8	2033.5	2022.7
5°	2089.8	2076.8	2040.0	2063.8	2042.2	2072.5	2096.3	2087.6	2094.1	2092.0	2094.1
7.5°	2105.0	2087.6	2083.3	2070.3	2089.8	2102.8	2122.3	2176.4	2172.1	2178.6	2191.6
10°	2150.5	2131.0	2118.0	2137.5	2126.6	2167.8	2189.4	2217.6	2267.4	2269.6	2243.6
12.5°	2239.2	2226.2	2200.3	2204.6	2241.4	2254.4	2267.4	2284.7	2317.2	2310.7	2334.5
15°	2341.0	2312.9	2297.7	2293.4	2302.0	2317.2	2315.0	2332.4	2349.7	2364.8	2358.4
17.5°	2414.7	2377.8	2382.2	2403.8	2401.7	2397.3	2369.2	2360.5	2369.2	2377.8	2373.5
20°	2490.5	2494.8	2462.3	2442.8	2434.1	2390.8	2369.2	2343.2	2317.2	2330.2	2349.7
22.5°	2585.7	2566.2	2518.6	2460.1	2416.8	2390.8	2323.7	2278.2	2278.2	2291.2	2284.7
25°	2694.0	2652.9	2570.6	2464.5	2410.3	2299.9	2252.2	2245.7	2228.4	2247.9	2256.6
27.5°	2778.5	2741.7	2629.1	2449.3	2299.9	2211.1	2182.9	2174.3	2202.4	2204.6	2239.2
30°	2813.1	2802.3	2637.7	2410.3	2187.3	2044.3	2027.0	2066.0	2096.3	2141.8	2144.0
32.5°	2858.6	2862.9	2650.7	2319.4	2040.0	1897.1	1871.1	1918.7	2005.4	2042.2	2070.3
35°	2934.4	2956.1	2639.9	2206.8	1884.1	1747.6	1743.3	1756.3	1840.8	1905.7	1942.6
37.5°	3066.5	3062.2	2637.7	2072.5	1760.6	1617.7	1583.1	1587.4	1643.7	1697.8	1691.3
40°	3244.1	3226.8	2631.2	1897.1	1600.4	1507.3	1448.8	1427.1	1422.8	1407.6	1412.0
42.5°	3486.6	3452.0	2629.1	1719.5	1455.3	1355.7	1314.5	1258.2	1217.1	1139.1	1143.4
45°	3824.5	3763.8	2572.7	1552.7	1312.4	1230.1	1167.3	1126.1	1037.3	939.9	939.9
47.5°	4346.4	4149.3	2574.9	1368.7	1173.8	1106.6	1063.3	991.9	896.6	818.6	809.9
50°	5115.2	4664.7	2501.3	1223.6	1061.1	1015.7	970.2	887.9	796.9	742.8	749.3
52.5°	6107.0	5433.5	2499.1	1093.6	972.4	939.9	890.1	816.4	749.3	714.7	701.7
55°	7289.4	6451.4	2577.1	987.5	881.4	864.1	842.4	781.8	716.8	686.5	684.3
57.5°	8500.0	7445.4	2702.7	911.7	803.4	816.4	801.3	753.6	701.7	667.0	662.7
60°	9576.3	8233.7	2449.3	820.8	734.1	762.3	784.0	742.8	714.7	712.5	697.3
62.5°	10388.4	8571.5	1862.4	751.5	697.3	749.3	807.8	833.8	820.8	838.1	840.3
65°	10685.1	8367.9	1282.0	714.7	669.2	779.6	909.6	900.9	825.1	792.6	809.9
67.5°	10269.3	7542.8	950.7	671.3	649.7	842.4	968.0	859.7	745.0	740.6	727.6
70°	8831.4	6392.9	775.3	625.9	617.2	807.8	942.0	796.9	701.7	673.5	660.5
72°	7036.1	4978.7	680.0	593.4	565.2	721.1	881.4	747.1	664.8	630.2	615.0
72.5°	6423.2	4614.9	667.0	578.2	554.4	701.7	851.1	732.0	656.2	625.9	602.0
75°	3523.5	2362.7	586.9	530.6	467.8	606.4	788.3	686.5	619.4	576.1	571.7
77.5°	1310.2	916.1	506.8	469.9	405.0	524.1	716.8	651.8	563.1	508.9	498.1
80°	502.4	482.9	413.6	396.3	340.0	459.1	660.5	584.7	478.6	424.5	407.1
82.5°	305.4	281.5	314.0	309.7	259.9	418.0	621.5	547.9	424.5	344.3	333.5
85°	166.8	166.8	218.7	210.1	181.9	333.5	469.9	363.8	268.5	220.9	225.2
87.5°	73.6	86.6	116.9	110.4	99.6	188.4	229.6	192.7	134.3	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)