

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: P480750

Luminaire Tested: **IFLD-M-SA4A-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480750
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

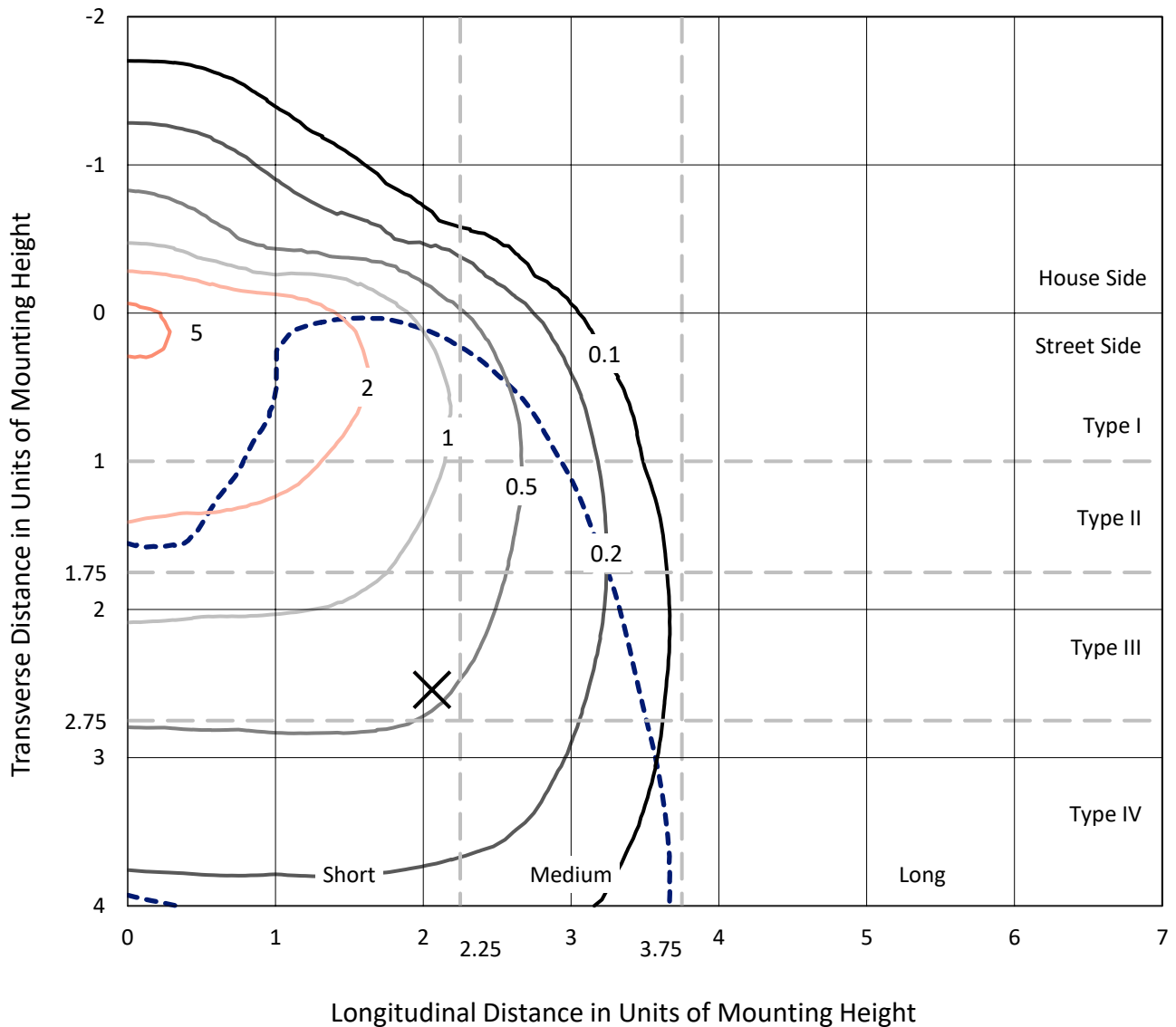
Lumens per Lamp: N/A
Luminaire Lumens: 13158 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

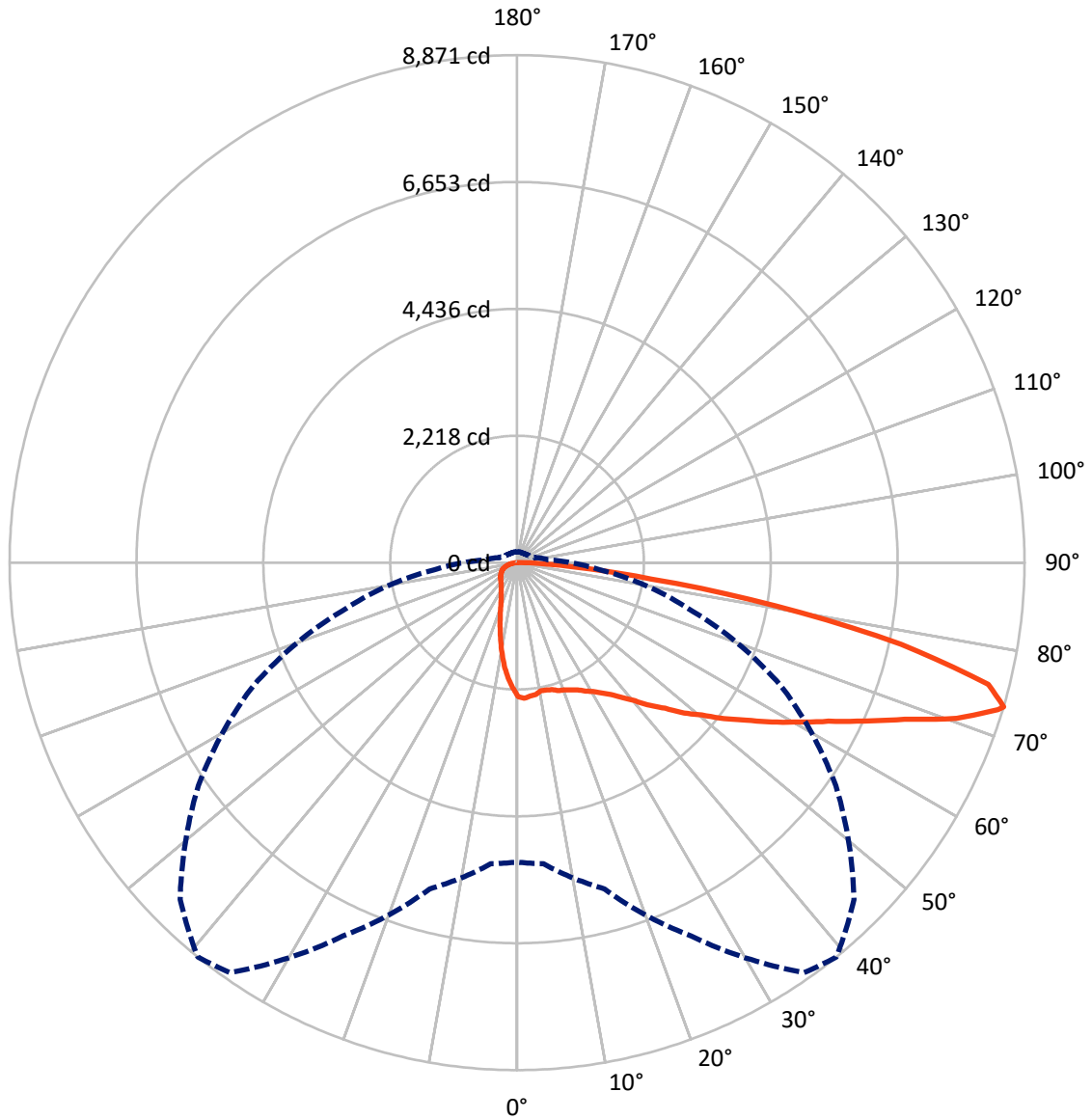
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.6	0.0	1849.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11308.3	0.0	11308.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	13158.0	0.0	13158.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.3	1.5
10°-20°	516.9	3.9
20°-30°	789.8	6.0
30°-40°	1151.6	8.8
40°-50°	1740.2	13.2
50°-60°	2519.9	19.2
60°-70°	3201.7	24.3
70°-80°	2595.4	19.7
80°-90°	439.1	3.3
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°	13158.0	100.0
0°-180°	13158.0	100.0

Coefficient of Utilization



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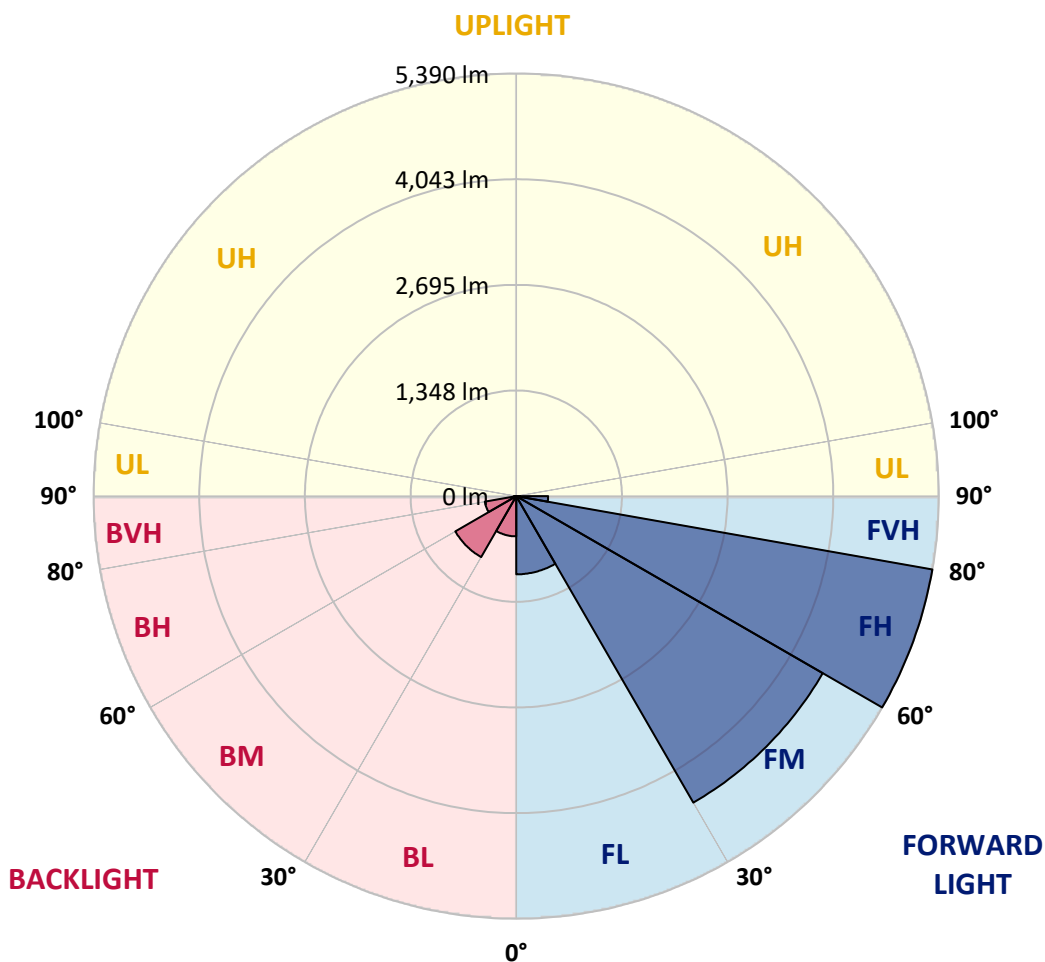
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	997.1	7.6			
FM (30°-60°)	4514.0	34.3			
FH (60°-80°)	5390.3	41.0			G3/7500
FVH (80°-90°)	406.9	3.1			G3/500
BL (0°-30°)	512.9	3.9	B2/1000		
BM (30°-60°)	897.7	6.8	B1/1000		
BH (60°-80°)	406.8	3.1	B1/500		G1/500
BVH (80°-90°)	32.2	0.2			G1/100
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°	35°	39°	45°	55°	65°	75°	85°
0°	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2
2.5°	2398.1	2373.1	2377.5	2368.7	2377.5	2374.6	2370.2	2348.1	2370.2	2348.1	2342.2
5°	2365.8	2365.8	2380.5	2358.4	2361.3	2346.6	2361.3	2345.1	2330.4	2293.6	2283.3
7.5°	2355.4	2354.0	2355.4	2324.5	2339.3	2330.4	2315.7	2298.0	2268.6	2245.0	2211.2
10°	2284.8	2299.5	2283.3	2292.1	2303.9	2277.4	2276.0	2271.5	2258.3	2227.4	2206.8
12.5°	2246.5	2271.5	2280.4	2273.0	2283.3	2286.3	2277.4	2271.5	2255.3	2234.7	2175.8
15°	2262.7	2233.3	2258.3	2306.9	2296.6	2303.9	2305.4	2299.5	2292.1	2253.9	2215.6
17.5°	2267.1	2249.5	2302.5	2312.8	2326.0	2352.5	2334.8	2333.4	2305.4	2278.9	2223.0
20°	2277.4	2270.1	2312.8	2367.2	2368.7	2373.1	2381.9	2359.9	2345.1	2299.5	2214.1
22.5°	2315.7	2340.7	2380.5	2404.0	2417.3	2420.2	2420.2	2376.1	2359.9	2323.1	2255.3
25°	2430.5	2404.0	2460.0	2487.9	2468.8	2464.4	2454.1	2414.3	2396.7	2364.3	2274.5
27.5°	2514.4	2513.0	2545.4	2583.6	2532.1	2542.4	2505.6	2493.8	2454.1	2436.4	2308.3
30°	2629.3	2661.7	2660.2	2672.0	2604.2	2616.0	2568.9	2546.8	2524.7	2535.1	2408.4
32.5°	2776.5	2764.7	2783.8	2775.0	2707.3	2717.6	2661.7	2627.8	2635.2	2666.1	2545.4
35°	2870.7	2858.9	2866.3	2866.3	2845.7	2833.9	2810.3	2766.2	2801.5	2858.9	2698.5
37.5°	2972.3	2987.0	3029.7	3020.9	2994.4	2994.4	2991.4	2960.5	3006.1	3147.5	2942.8
40°	3062.1	3101.8	3128.3	3146.0	3176.9	3176.9	3201.9	3184.3	3266.7	3493.4	3241.7
42.5°	3156.3	3157.8	3302.0	3315.3	3384.5	3413.9	3433.1	3447.8	3602.4	3855.6	3561.1
45°	3277.0	3284.4	3411.0	3512.6	3620.0	3630.3	3702.5	3751.1	3941.0	4251.6	3908.6
47.5°	3436.0	3427.2	3562.6	3724.6	3858.5	3929.2	4016.0	4069.0	4303.1	4681.5	4288.4
50°	3645.1	3618.6	3696.6	3951.3	4108.8	4186.8	4341.4	4429.7	4703.5	5092.2	4549.0
52.5°	3899.7	3855.6	3917.4	4195.6	4372.3	4529.8	4677.0	4775.7	5061.3	5410.2	4741.8
55°	4169.1	4077.9	4095.5	4454.7	4709.4	4858.1	5059.8	5162.8	5454.3	5695.8	4934.7
57.5°	4435.6	4378.2	4342.9	4703.5	5111.3	5254.1	5439.6	5573.6	5820.9	5949.0	5098.1
60°	4659.4	4644.6	4587.2	5089.2	5536.8	5659.0	5853.3	5935.7	6122.7	6183.1	5101.0
62.5°	4843.4	4793.3	4884.6	5399.9	5969.6	6108.0	6321.4	6328.8	6461.3	6328.8	4950.9
65°	4987.7	4990.6	5136.3	5775.3	6470.1	6674.8	6847.0	6827.9	6742.5	6241.9	4596.1
67.5°	5118.7	5174.6	5388.1	6187.5	7113.5	7306.3	7497.7	7244.5	6819.0	5835.6	3902.7
70°	5221.7	5277.7	5728.2	6689.5	7871.6	8154.3	8197.0	7409.4	6467.2	4943.5	2944.3
72.5°	5210.0	5311.5	5921.0	7089.9	8544.4	8788.8	8444.3	6945.6	5388.1	3446.3	1718.0
73°	5235.0	5285.0	5904.8	7201.8	8749.0	8871.2	8329.5	6799.9	5081.9	3091.5	1453.0
75°	4752.1	4921.4	5611.9	7019.2	8529.7	8507.6	7669.9	5666.3	3612.7	1623.8	703.7
77.5°	3515.5	3623.0	4422.4	5772.3	7001.6	6860.2	5785.6	3621.5	1715.1	602.1	379.8
80°	1718.0	1801.9	2343.7	3333.0	4578.4	4590.2	3590.6	1884.4	734.6	340.1	259.1
82.5°	858.3	908.3	1126.2	1464.8	2252.4	2359.9	1821.1	1071.7	454.9	192.9	147.2
85°	560.9	596.2	693.4	716.9	955.4	1008.4	848.0	836.2	295.9	104.5	119.2
87.5°	372.5	378.3	425.5	362.2	382.8	368.0	409.3	527.0	86.9	44.2	32.4
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°	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2	2342.2
2.5°	2334.8	2314.2	2292.1	2261.2	2239.1	2205.3	2174.4	2161.1	2158.2	2159.7	2144.9
5°	2274.5	2245.0	2200.9	2137.6	2100.8	2044.8	1997.7	1972.7	1946.2	1950.6	1938.8
7.5°	2190.6	2158.2	2090.5	2016.9	1925.6	1846.1	1801.9	1740.1	1704.8	1678.3	1693.0
10°	2164.1	2108.1	2006.5	1905.0	1763.6	1659.1	1557.5	1486.9	1438.3	1391.2	1411.8
12.5°	2150.8	2094.9	1953.5	1803.4	1620.8	1461.8	1319.1	1232.2	1163.0	1121.8	1138.0
15°	2139.0	2069.8	1903.5	1691.5	1486.9	1277.8	1117.4	1002.5	936.3	896.5	901.0
17.5°	2155.2	2056.6	1829.9	1582.6	1339.7	1115.9	937.8	818.5	750.8	725.8	719.9
20°	2139.0	2041.9	1757.8	1473.6	1192.4	961.3	790.5	691.9	644.8	624.2	619.8
22.5°	2144.9	2006.5	1682.7	1352.9	1055.5	831.8	691.9	616.8	580.0	569.7	572.7
25°	2172.9	1985.9	1607.6	1220.4	920.1	736.1	628.6	571.2	544.7	534.4	537.3
27.5°	2193.5	2003.6	1539.9	1095.3	805.3	650.7	575.6	537.3	519.7	512.3	510.8
30°	2245.0	2013.9	1473.6	983.4	711.1	594.8	538.8	507.9	496.1	491.7	490.2
32.5°	2321.6	2033.0	1397.1	880.3	641.9	541.8	509.4	482.9	479.9	475.5	477.0
35°	2446.7	2099.3	1311.7	792.0	575.6	506.4	478.5	460.8	460.8	460.8	465.2
37.5°	2626.3	2192.0	1235.1	708.1	532.9	475.5	452.0	446.1	443.1	447.5	450.5
40°	2857.5	2303.9	1173.3	641.9	496.1	454.9	434.3	431.3	429.9	428.4	431.3
42.5°	3110.7	2446.7	1120.3	590.3	469.6	432.8	418.1	415.1	409.3	412.2	416.6
45°	3362.4	2623.4	1073.2	549.1	452.0	421.0	400.4	399.0	396.0	394.5	401.9
47.5°	3642.1	2797.1	1058.5	524.1	438.7	403.4	388.6	387.2	378.3	376.9	382.8
50°	3860.0	2925.2	1074.7	512.3	419.6	390.1	379.8	372.5	365.1	357.7	357.7
52.5°	4010.2	3013.5	1086.5	503.5	409.3	372.5	359.2	356.3	348.9	341.5	338.6
55°	4145.6	3066.5	1089.4	504.9	399.0	351.8	343.0	341.5	337.1	325.3	322.4
57.5°	4191.2	3044.4	1030.5	491.7	393.1	338.6	326.8	329.8	323.9	313.6	312.1
60°	4186.8	2891.3	896.5	474.0	379.8	323.9	309.2	318.0	318.0	306.2	304.7
62.5°	3932.1	2538.0	733.1	440.2	365.1	309.2	293.0	306.2	310.6	303.3	301.8
65°	3403.6	2066.9	612.4	406.3	343.0	293.0	276.8	291.5	298.8	295.9	294.4
67.5°	2816.2	1581.1	509.4	362.2	315.0	270.9	257.6	267.9	272.3	273.8	275.3
70°	1990.4	1052.6	425.5	313.6	276.8	247.3	232.6	234.1	232.6	237.0	237.0
72.5°	1082.0	606.5	346.0	266.5	238.5	214.9	204.6	197.3	197.3	195.8	195.8
73°	926.0	544.7	329.8	259.1	228.2	209.0	197.3	191.4	191.4	189.9	188.4
75°	519.7	399.0	282.7	222.3	197.3	182.5	173.7	164.9	163.4	163.4	163.4
77.5°	341.5	310.6	225.2	178.1	159.0	145.7	142.8	134.0	134.0	134.0	132.5
80°	256.2	244.4	173.7	135.4	122.2	111.9	108.9	103.1	101.6	95.7	97.2
82.5°	170.8	192.9	126.6	95.7	82.4	76.6	76.6	75.1	70.7	63.3	63.3
85°	135.4	157.5	91.3	58.9	48.6	41.2	42.7	41.2	39.7	32.4	30.9
87.5°	25.0	63.3	26.5	16.2	11.8	7.4	7.4	4.4	2.9	0.0	0.0
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)