

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: P479989

Luminaire Tested: **IFLD-S-SA3A-727-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479989  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-727-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

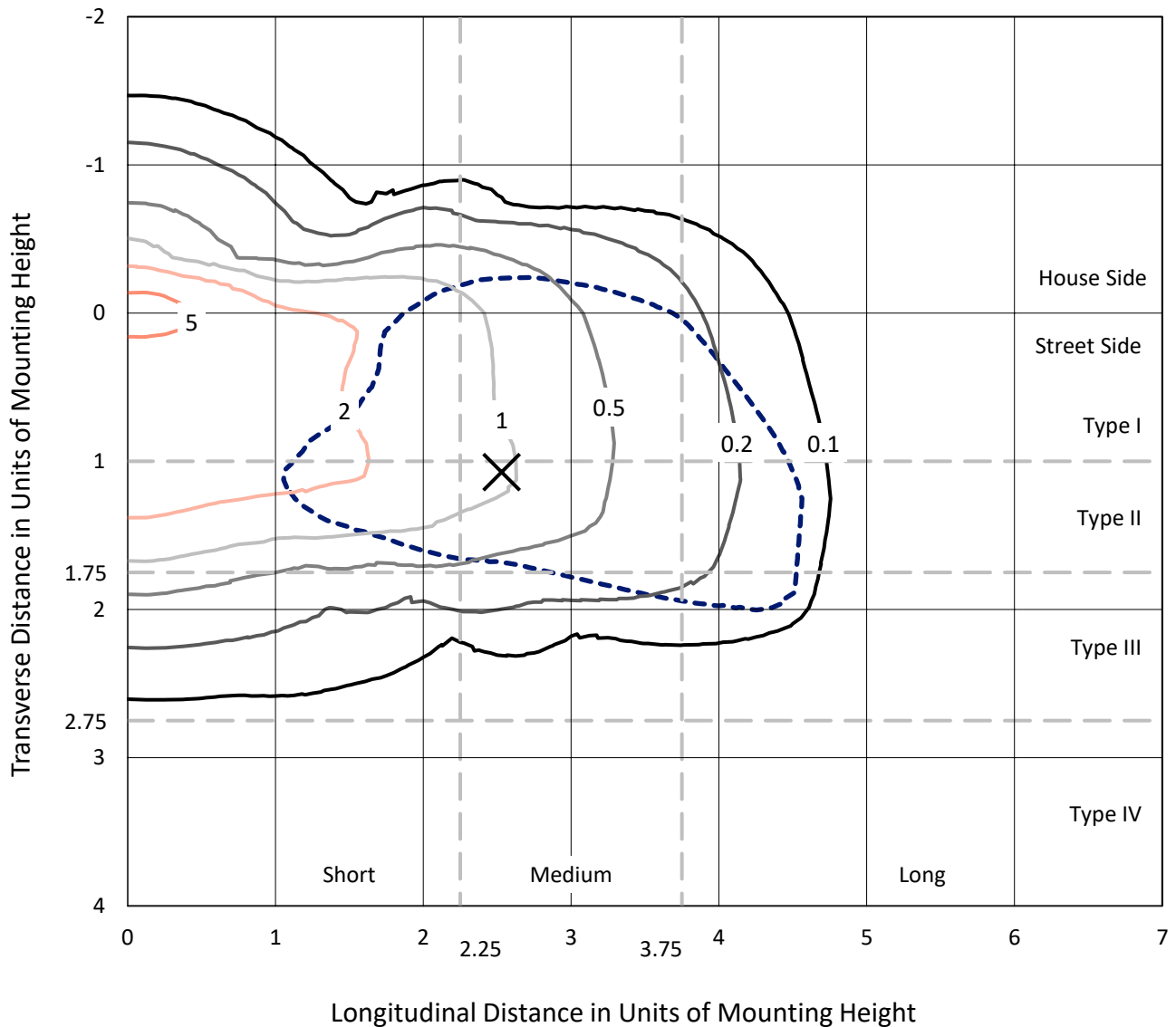
Lumens per Lamp: N/A  
Luminaire Lumens: 11472.4 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8  
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

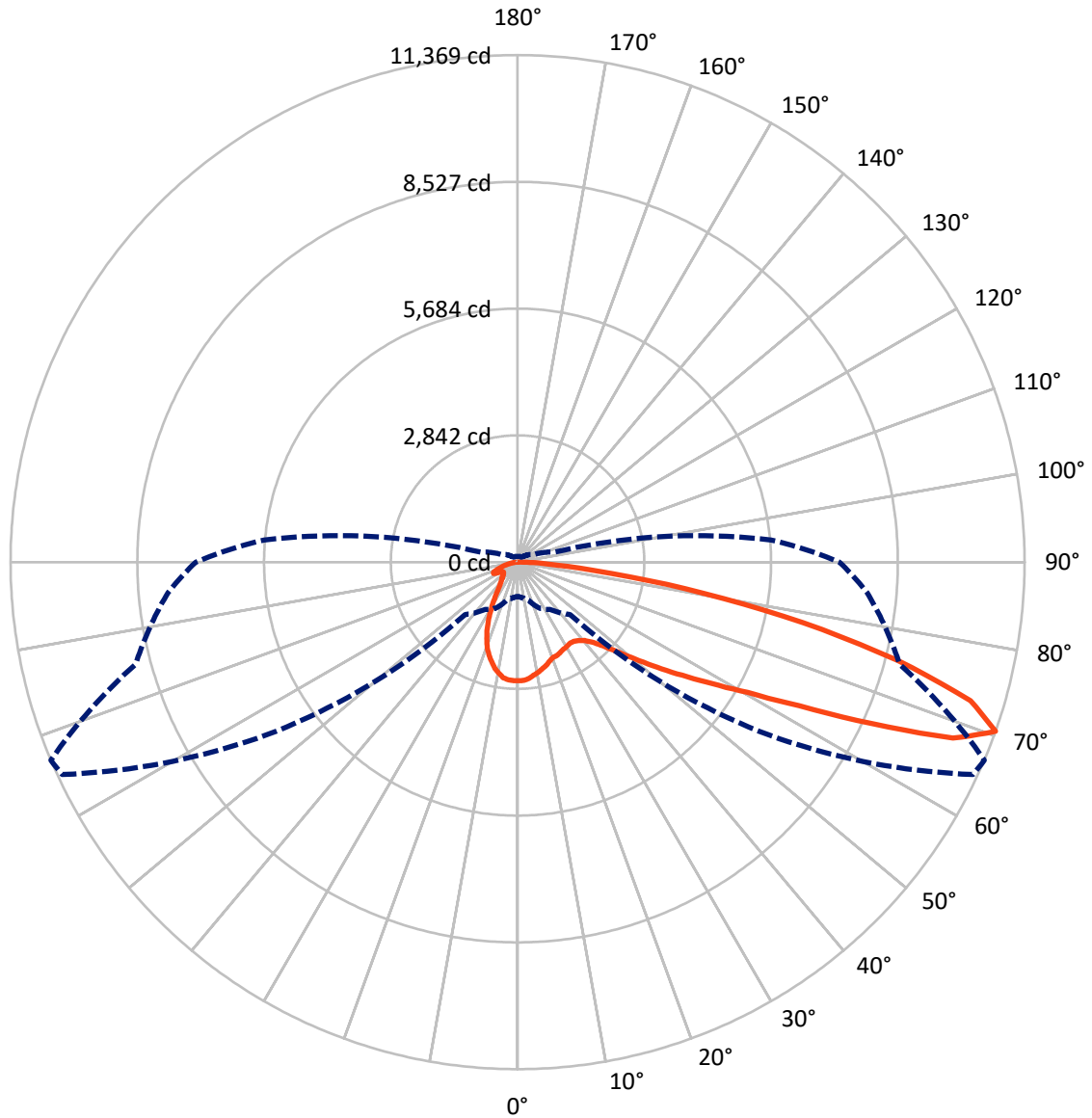
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2234.4	0.0	2234.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9238.0	0.0	9238.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11472.4	0.0	11472.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.7	2.0
10°-20°	555.0	4.8
20°-30°	749.5	6.5
30°-40°	1002.8	8.7
40°-50°	1474.7	12.9
50°-60°	2298.6	20.0
60°-70°	2831.5	24.7
70°-80°	2000.7	17.4
80°-90°	327.9	2.9
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°	11472.4	100.0
0°-180°	11472.4	100.0

**Coefficient of Utilization**



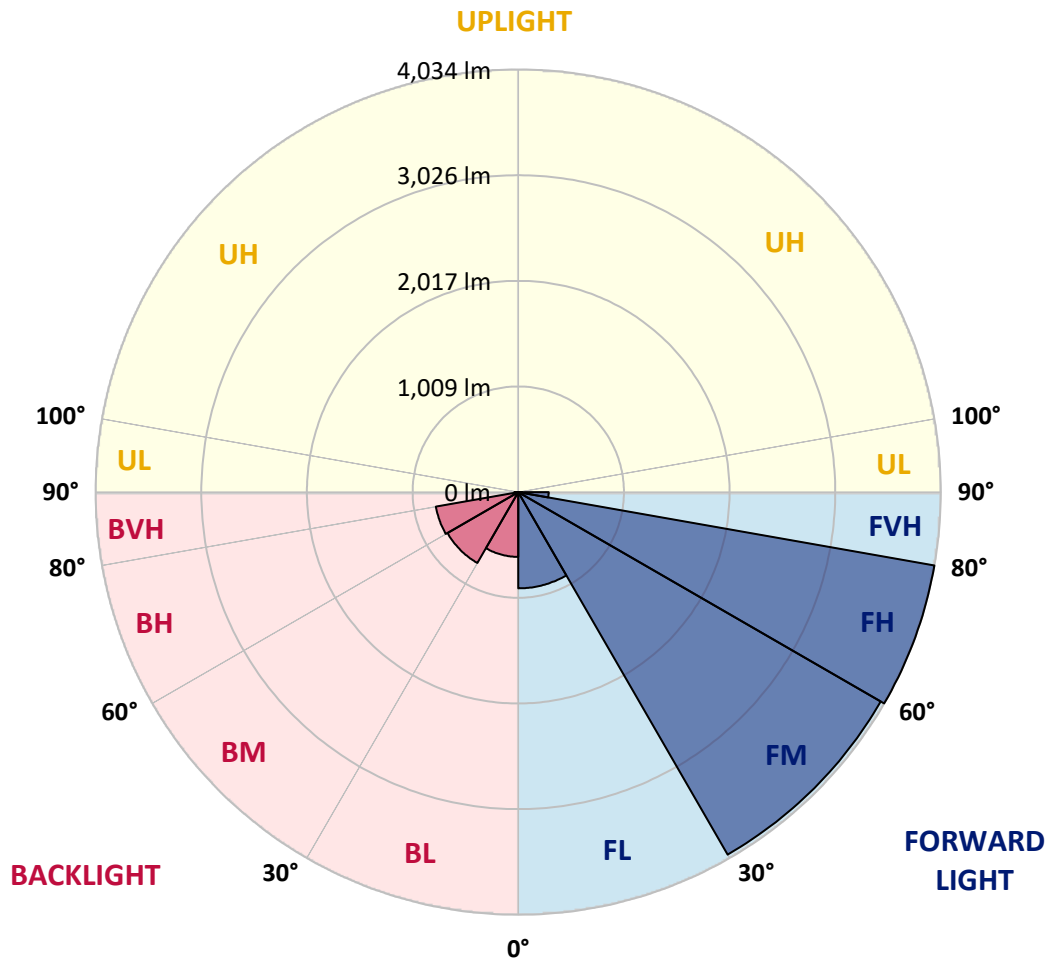
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.3	8.0			
FM (30°-60°)	3995.6	34.8			
FH (60°-80°)	4034.1	35.2			G2/5000
FVH (80°-90°)	290.1	2.5			G3/500
BL (0°-30°)	617.9	5.4	B2/1000		
BM (30°-60°)	780.5	6.8	B1/1000		
BH (60°-80°)	798.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.8	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8
2.5°	2472.9	2500.9	2511.0	2526.3	2565.6	2594.9	2612.6	2633.0	2657.1	2677.4	2690.1
5°	2300.2	2315.4	2339.6	2356.1	2405.6	2484.4	2537.7	2624.1	2621.5	2653.3	2701.5
7.5°	2132.5	2147.8	2159.2	2192.2	2263.4	2334.5	2432.3	2572.0	2561.8	2635.5	2710.4
10°	2028.4	2017.0	2020.8	2076.6	2132.5	2212.6	2335.8	2478.0	2514.8	2629.2	2735.8
12.5°	1930.6	1917.9	1948.4	1983.9	2052.5	2124.9	2272.2	2400.5	2456.4	2606.3	2747.3
15°	1869.6	1860.7	1898.8	1914.1	1995.4	2081.7	2185.9	2342.1	2403.1	2578.3	2729.5
17.5°	1835.3	1842.9	1856.9	1889.9	1942.0	2015.7	2130.0	2302.7	2329.4	2544.1	2725.7
20°	1841.7	1850.6	1851.8	1865.8	1901.4	1958.5	2075.4	2260.8	2278.6	2537.7	2735.8
22.5°	1892.5	1879.8	1884.9	1876.0	1886.1	1930.6	2033.5	2204.9	2273.5	2484.4	2714.3
25°	1968.7	1950.9	1948.4	1917.9	1898.8	1911.5	2025.8	2191.0	2235.4	2467.8	2713.0
27.5°	2103.3	2076.6	2076.6	2030.9	1953.4	1933.1	2004.3	2168.1	2207.5	2452.6	2683.8
30°	2232.9	2232.9	2234.1	2169.4	2083.0	1982.7	2013.1	2159.2	2184.6	2406.9	2644.4
32.5°	2390.4	2386.6	2380.2	2348.5	2215.1	2065.2	2056.3	2147.8	2160.5	2391.6	2633.0
35°	2544.1	2533.9	2583.4	2555.5	2419.6	2226.5	2100.8	2152.9	2180.8	2368.8	2597.4
37.5°	2659.6	2666.0	2768.9	2786.6	2669.8	2409.4	2226.5	2203.7	2230.3	2401.8	2597.4
40°	2809.5	2834.9	2931.4	2991.1	2920.0	2650.7	2425.9	2288.8	2307.8	2475.5	2653.3
42.5°	3006.4	3028.0	3151.2	3228.6	3208.3	2958.1	2622.8	2466.6	2451.3	2598.7	2737.1
45°	3266.8	3270.6	3395.0	3501.7	3543.6	3279.5	2935.3	2691.4	2678.7	2810.8	2890.8
47.5°	3576.7	3572.9	3650.3	3764.6	3877.7	3663.0	3294.7	3033.1	2987.3	3114.3	3146.1
50°	3876.4	3859.9	3877.7	4023.7	4240.9	4143.1	3731.6	3450.9	3405.2	3475.1	3529.7
52.5°	4041.5	4061.8	4013.6	4206.6	4627.1	4710.9	4310.8	3950.1	3910.7	3945.0	4040.3
55°	3925.9	3967.9	3936.1	4119.0	4796.0	5403.1	5060.2	4528.0	4477.2	4464.5	4620.7
57.5°	3434.4	3510.6	3517.0	3806.6	4737.6	5939.1	6114.4	5210.0	5133.8	5004.3	5165.6
60°	2636.8	2713.0	2771.4	3114.3	4237.1	6259.2	7336.2	6180.4	5928.9	5593.6	5690.1
62.5°	1848.0	1900.1	1958.5	2169.4	3266.8	6071.2	8393.0	7547.1	7083.5	6214.7	6335.4
65°	1346.3	1387.0	1446.7	1571.1	2006.8	5023.3	8883.2	9170.3	8730.8	7004.7	6989.5
67.5°	1013.6	1039.0	1117.7	1317.1	1390.8	3102.9	8375.2	10884.9	10529.3	7882.4	7515.3
70°	767.2	788.7	862.4	1135.5	1299.3	1663.9	6607.2	11267.2	11368.9	8866.7	7868.4
72.5°	528.4	552.5	635.1	946.2	1237.1	1319.7	4146.9	10235.9	10620.8	9271.9	7489.9
75°	323.9	340.4	388.7	717.6	1228.2	1290.4	2282.4	8387.9	8795.6	8567.0	6552.6
77.5°	228.6	227.4	236.2	420.4	1064.4	1298.1	1407.3	6146.1	6542.4	6313.8	4446.7
80°	166.4	167.7	176.5	251.5	722.7	1319.7	1108.8	4116.5	4234.6	3292.2	1754.0
82.5°	100.3	105.4	127.0	170.2	434.4	1191.4	1025.0	2287.5	2140.2	1056.7	482.6
85°	53.3	53.3	74.9	108.0	231.2	889.1	986.9	1088.5	911.9	327.7	179.1
87.5°	12.7	12.7	21.6	43.2	92.7	425.5	673.2	433.1	346.7	110.5	73.7
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°	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8	2655.8
2.5°	2685.0	2669.8	2688.8	2650.7	2620.3	2621.5	2574.5	2572.0	2565.6	2532.6	2544.1
5°	2715.5	2702.8	2681.2	2639.3	2572.0	2504.7	2464.0	2412.0	2390.4	2378.9	2384.0
7.5°	2744.7	2721.9	2659.6	2601.2	2497.1	2370.0	2296.4	2226.5	2137.6	2127.5	2109.7
10°	2752.4	2704.1	2624.1	2499.6	2361.2	2220.2	2052.5	1923.0	1854.4	1801.0	1780.7
12.5°	2740.9	2720.6	2566.9	2406.9	2197.3	1976.3	1780.7	1597.8	1470.8	1404.8	1387.0
15°	2739.7	2704.1	2503.4	2265.9	1997.9	1709.6	1431.4	1211.7	1078.3	1023.7	1023.7
17.5°	2740.9	2655.8	2428.5	2123.6	1762.9	1373.0	1066.9	886.5	812.9	805.3	811.6
20°	2715.5	2620.3	2349.7	1956.0	1468.3	1031.3	774.8	701.1	701.1	711.3	715.1
22.5°	2692.7	2566.9	2225.3	1749.0	1168.5	746.8	630.0	608.4	632.5	650.3	657.9
25°	2660.9	2522.5	2098.2	1534.3	889.1	602.0	547.4	552.5	575.4	607.1	604.6
27.5°	2615.2	2445.0	1947.1	1285.4	661.7	519.5	505.5	508.0	532.2	546.2	543.6
30°	2563.1	2366.2	1807.4	1037.7	524.6	476.3	475.0	481.4	485.2	492.8	491.5
32.5°	2497.1	2262.1	1658.8	806.5	472.5	452.2	447.1	443.3	447.1	445.8	442.0
35°	2450.1	2206.2	1507.6	614.7	443.3	430.6	426.8	420.4	415.3	407.7	406.4
37.5°	2437.4	2150.3	1348.9	501.7	420.4	414.1	401.4	389.9	383.6	379.8	377.2
40°	2429.7	2113.5	1193.9	440.7	401.4	395.0	379.8	364.5	358.2	354.4	355.6
42.5°	2456.4	2093.2	1036.4	410.2	384.8	373.4	356.9	339.1	337.9	335.3	339.1
45°	2550.4	2118.6	890.4	388.7	368.3	349.3	327.7	318.8	317.5	315.0	317.5
47.5°	2763.8	2182.1	765.9	374.7	350.6	334.0	311.2	298.5	297.2	295.9	295.9
50°	3058.5	2377.7	661.7	358.2	339.1	316.3	294.7	280.7	278.2	273.1	273.1
52.5°	3520.8	2706.6	599.5	349.3	318.8	299.7	276.9	261.6	255.3	250.2	250.2
55°	4041.5	3114.3	588.1	334.0	297.2	279.4	259.1	243.9	237.5	231.2	228.6
57.5°	4634.7	3654.1	669.4	323.9	282.0	259.1	236.2	222.3	217.2	210.8	208.3
60°	5187.2	4192.7	922.1	308.6	268.0	240.1	217.2	203.2	196.9	190.5	190.5
62.5°	5826.0	4859.5	1350.1	308.6	255.3	219.7	196.9	186.7	182.9	176.5	175.3
65°	6581.8	5549.2	1662.6	327.7	251.5	201.9	177.8	167.7	163.8	160.0	158.8
67.5°	7157.1	5945.4	1430.2	378.5	268.0	186.7	158.8	152.4	149.9	146.1	143.5
70°	7218.1	5704.1	862.4	409.0	284.5	171.5	142.3	135.9	135.9	132.1	129.6
72.5°	6670.7	5061.4	580.4	364.5	257.8	153.7	125.7	120.7	118.1	115.6	114.3
75°	5582.2	4293.0	458.5	290.9	198.1	127.0	109.2	104.1	100.3	99.1	96.5
77.5°	3749.4	2790.5	339.1	227.4	146.1	102.9	91.4	86.4	82.6	81.3	77.5
80°	1440.3	1063.1	218.5	165.1	102.9	81.3	72.4	67.3	64.8	61.0	58.4
82.5°	424.2	344.2	121.9	101.6	66.0	55.9	52.1	48.3	44.5	40.6	39.4
85°	175.3	157.5	74.9	53.3	40.6	33.0	30.5	26.7	22.9	20.3	17.8
87.5°	81.3	67.3	34.3	20.3	14.0	7.6	3.8	1.3	0.0	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)