

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: P479948

Luminaire Tested: **IFLD-S-SA2D-722-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479948  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-722-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

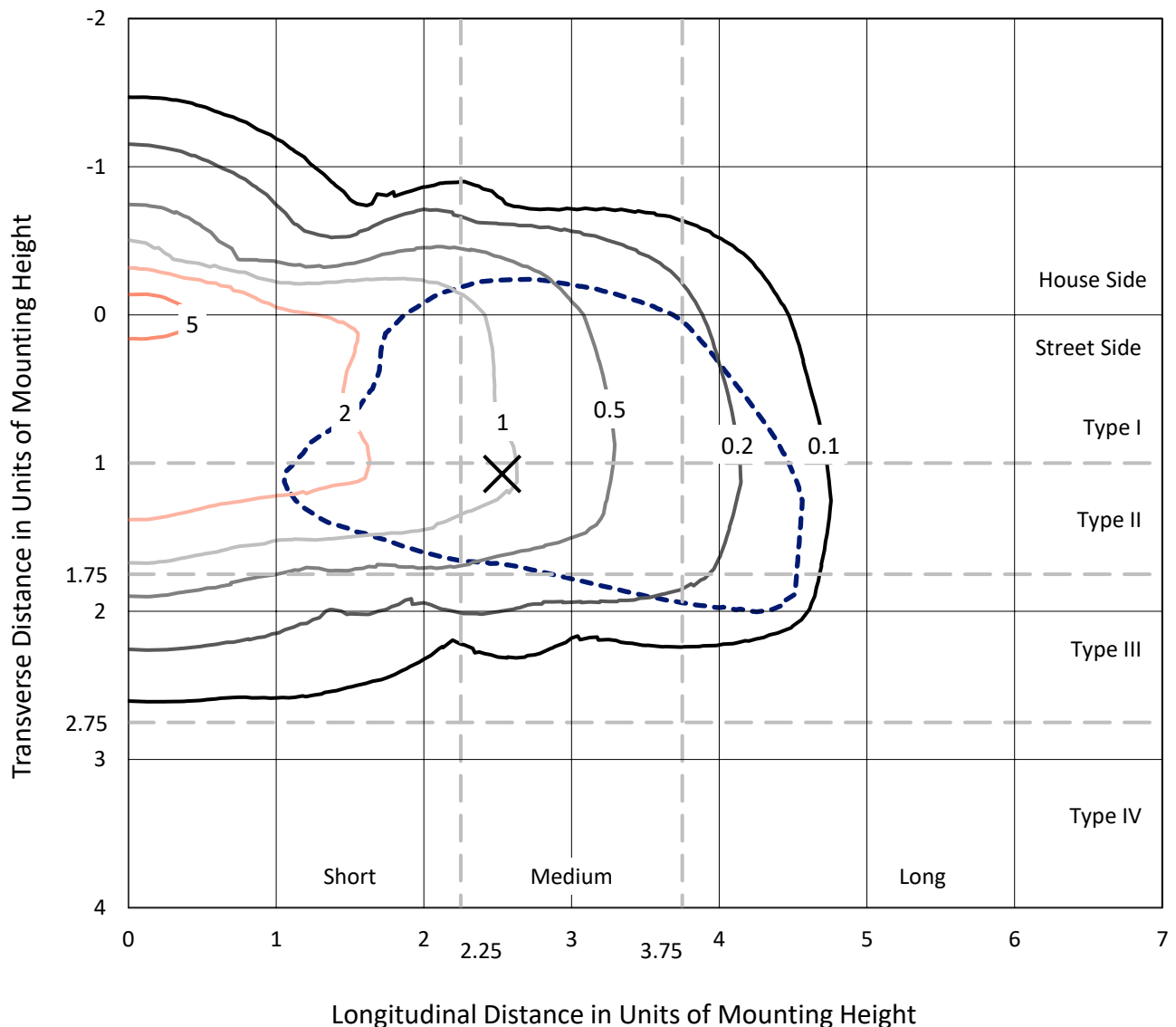
Lumens per Lamp: N/A  
Luminaire Lumens: 11486.2 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

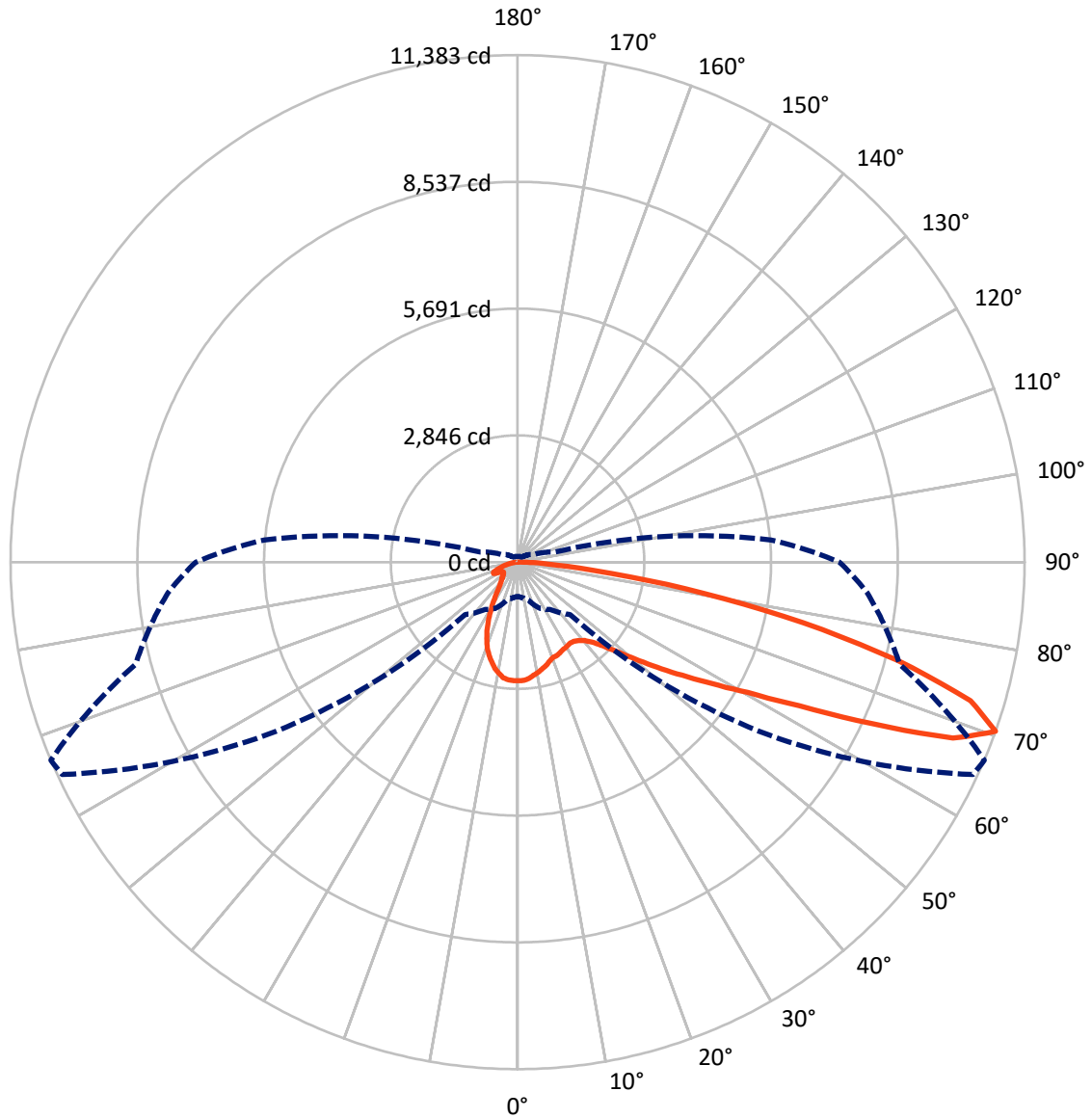
× Max cd  
 - - - 1/2 Max cd



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	2237.0	0.0	2237.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	9249.1	0.0	9249.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	11486.2	0.0	11486.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.0	2.0
10°-20°	555.6	4.8
20°-30°	750.4	6.5
30°-40°	1004.0	8.7
40°-50°	1476.4	12.9
50°-60°	2301.4	20.0
60°-70°	2834.9	24.7
70°-80°	2003.1	17.4
80°-90°	328.3	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°	11486.2	100.0
0°-180°	11486.2	100.0

**Coefficient of Utilization**

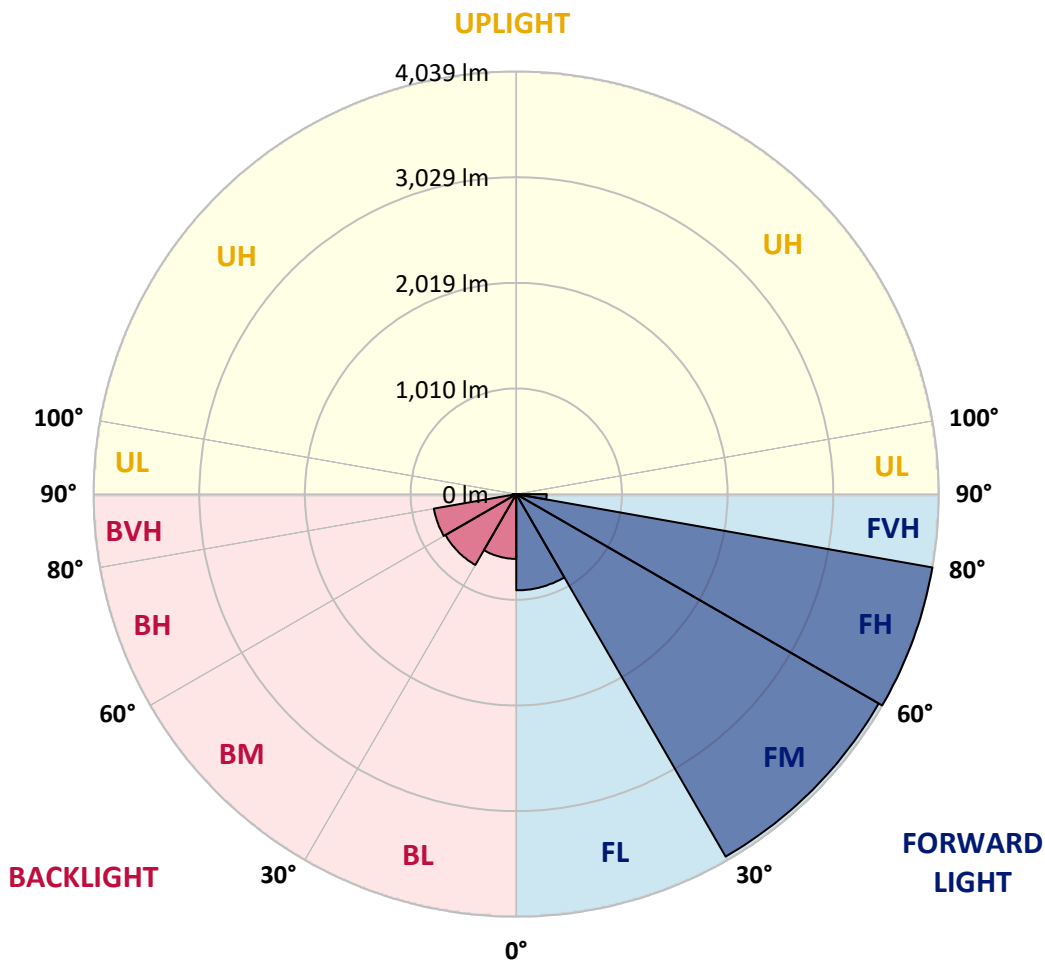


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.4	8.0			
FM (30°-60°)	4000.4	34.8			
FH (60°-80°)	4038.9	35.2			G2/5000
FVH (80°-90°)	290.4	2.5			G3/500
BL (0°-30°)	618.6	5.4	B2/1000		
BM (30°-60°)	781.4	6.8	B1/1000		
BH (60°-80°)	799.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.9	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°	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0
2.5°	2475.9	2503.9	2514.0	2529.3	2568.7	2598.0	2615.8	2636.1	2660.3	2680.6	2693.3
5°	2303.0	2318.2	2342.4	2358.9	2408.5	2487.3	2540.8	2627.2	2624.7	2656.5	2704.8
7.5°	2135.1	2150.4	2161.8	2194.9	2266.1	2337.3	2435.2	2575.1	2564.9	2638.7	2713.7
10°	2030.8	2019.4	2023.2	2079.1	2135.1	2215.2	2338.6	2481.0	2517.9	2632.3	2739.1
12.5°	1932.9	1920.2	1950.7	1986.3	2055.0	2127.5	2275.0	2403.4	2459.4	2609.4	2750.6
15°	1871.9	1863.0	1901.1	1916.4	1997.8	2084.2	2188.5	2344.9	2406.0	2581.4	2732.8
17.5°	1837.5	1845.2	1859.1	1892.2	1944.3	2018.1	2132.6	2305.5	2332.2	2547.1	2729.0
20°	1843.9	1852.8	1854.1	1868.0	1903.7	1960.9	2077.9	2263.5	2281.3	2540.8	2739.1
22.5°	1894.8	1882.0	1887.1	1878.2	1888.4	1932.9	2035.9	2207.6	2276.2	2487.3	2717.5
25°	1971.1	1953.2	1950.7	1920.2	1901.1	1913.8	2028.3	2193.6	2238.1	2470.8	2716.2
27.5°	2105.8	2079.1	2079.1	2033.4	1955.8	1935.4	2006.7	2170.7	2210.1	2455.6	2687.0
30°	2235.6	2235.6	2236.8	2172.0	2085.5	1985.0	2015.6	2161.8	2187.2	2409.8	2647.6
32.5°	2393.2	2389.4	2383.1	2351.3	2217.8	2067.7	2058.8	2150.4	2163.1	2394.5	2636.1
35°	2547.1	2536.9	2586.5	2558.6	2422.5	2229.2	2103.3	2155.4	2183.4	2371.6	2600.5
37.5°	2662.8	2669.2	2772.2	2790.0	2673.0	2412.3	2229.2	2206.3	2233.0	2404.7	2600.5
40°	2812.9	2838.3	2935.0	2994.7	2923.5	2653.9	2428.8	2291.5	2310.6	2478.4	2656.5
42.5°	3010.0	3031.6	3155.0	3232.5	3212.2	2961.7	2626.0	2469.5	2454.3	2601.8	2740.4
45°	3270.7	3274.5	3399.1	3505.9	3547.9	3283.4	2938.8	2694.6	2681.9	2814.2	2894.3
47.5°	3581.0	3577.1	3654.7	3769.2	3882.3	3667.4	3298.7	3036.7	2990.9	3118.1	3149.9
50°	3881.1	3864.5	3882.3	4028.6	4246.0	4148.1	3736.1	3455.1	3409.3	3479.2	3533.9
52.5°	4046.4	4066.7	4018.4	4211.7	4632.6	4716.5	4316.0	3954.8	3915.4	3949.7	4045.1
55°	3930.7	3972.6	3940.8	4124.0	4801.7	5409.6	5066.2	4533.4	4482.6	4469.8	4626.3
57.5°	3438.5	3514.8	3521.2	3811.1	4743.2	5946.2	6121.7	5216.3	5140.0	5010.3	5171.8
60°	2639.9	2716.2	2774.7	3118.1	4242.2	6266.7	7345.0	6187.8	5936.0	5600.3	5697.0
62.5°	1850.2	1902.4	1960.9	2172.0	3270.7	6078.5	8403.0	7556.1	7092.0	6222.2	6343.0
65°	1347.9	1388.6	1448.4	1573.0	2009.2	5029.4	8893.9	9181.3	8741.3	7013.1	6997.9
67.5°	1014.8	1040.2	1119.0	1318.7	1392.5	3106.6	8385.2	10898.0	10542.0	7891.8	7524.3
70°	768.1	789.7	863.4	1136.9	1300.9	1665.9	6615.1	11280.8	11382.5	8877.4	7877.9
72.5°	529.0	553.2	635.8	947.4	1238.6	1321.2	4151.9	10248.2	10633.5	9283.0	7498.9
75°	324.3	340.8	389.1	718.5	1229.7	1292.0	2285.1	8398.0	8806.2	8577.3	6560.4
77.5°	228.9	227.6	236.5	420.9	1065.6	1299.6	1409.0	6153.5	6550.3	6321.4	4452.0
80°	166.6	167.9	176.8	251.8	723.6	1321.2	1110.1	4121.4	4239.7	3296.1	1756.1
82.5°	100.5	105.5	127.2	170.4	434.9	1192.8	1026.2	2290.2	2142.7	1058.0	483.2
85°	53.4	53.4	75.0	108.1	231.4	890.2	988.1	1089.8	913.0	328.1	179.3
87.5°	12.7	12.7	21.6	43.2	92.8	426.0	674.0	433.6	347.2	110.6	73.8
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°	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0	2659.0
2.5°	2688.3	2673.0	2692.1	2653.9	2623.4	2624.7	2577.6	2575.1	2568.7	2535.7	2547.1
5°	2718.8	2706.1	2684.4	2642.5	2575.1	2507.7	2467.0	2414.9	2393.2	2381.8	2386.9
7.5°	2748.0	2725.1	2662.8	2604.3	2500.1	2372.9	2299.1	2229.2	2140.2	2130.0	2112.2
10°	2755.7	2707.3	2627.2	2502.6	2364.0	2222.8	2055.0	1925.3	1856.6	1803.2	1782.8
12.5°	2744.2	2723.9	2570.0	2409.8	2199.9	1978.7	1782.8	1599.7	1472.6	1406.4	1388.6
15°	2742.9	2707.3	2506.4	2268.6	2000.3	1711.6	1433.1	1213.2	1079.6	1024.9	1024.9
17.5°	2744.2	2659.0	2431.4	2126.2	1765.0	1374.7	1068.2	887.6	813.9	806.2	812.6
20°	2718.8	2623.4	2352.5	1958.3	1470.0	1032.6	775.7	701.9	701.9	712.1	715.9
22.5°	2695.9	2570.0	2227.9	1751.1	1169.9	747.7	630.7	609.1	633.3	651.1	658.7
25°	2664.1	2525.5	2100.8	1536.1	890.2	602.8	548.1	553.2	576.1	607.8	605.3
27.5°	2618.3	2447.9	1949.4	1286.9	662.5	520.1	506.1	508.7	532.8	546.8	544.3
30°	2566.2	2369.1	1809.6	1038.9	525.2	476.9	475.6	482.0	485.8	493.4	492.1
32.5°	2500.1	2264.8	1660.8	807.5	473.1	452.7	447.6	443.8	447.6	446.3	442.5
35°	2453.0	2208.9	1509.4	615.5	443.8	431.1	427.3	420.9	415.8	408.2	406.9
37.5°	2440.3	2152.9	1350.5	502.3	420.9	414.6	401.8	390.4	384.0	380.2	377.7
40°	2432.7	2116.0	1195.3	441.3	401.8	395.5	380.2	365.0	358.6	354.8	356.1
42.5°	2459.4	2095.7	1037.7	410.7	385.3	373.9	357.3	339.5	338.3	335.7	339.5
45°	2553.5	2121.1	891.4	389.1	368.8	349.7	328.1	319.2	317.9	315.4	317.9
47.5°	2767.1	2184.7	766.8	375.1	351.0	334.4	311.6	298.8	297.6	296.3	296.3
50°	3062.1	2380.5	662.5	358.6	339.5	316.6	295.0	281.0	278.5	273.4	273.4
52.5°	3525.0	2709.9	600.2	349.7	319.2	300.1	277.2	262.0	255.6	250.5	250.5
55°	4046.4	3118.1	588.8	334.4	297.6	279.8	259.4	244.2	237.8	231.4	228.9
57.5°	4640.2	3658.5	670.2	324.3	282.3	259.4	236.5	222.5	217.5	211.1	208.6
60°	5193.4	4197.7	923.2	309.0	268.3	240.3	217.5	203.5	197.1	190.7	190.7
62.5°	5833.0	4865.3	1351.8	309.0	255.6	220.0	197.1	186.9	183.1	176.8	175.5
65°	6589.7	5555.8	1664.6	328.1	251.8	202.2	178.0	167.9	164.0	160.2	159.0
67.5°	7165.7	5952.6	1431.9	379.0	268.3	186.9	159.0	152.6	150.1	146.2	143.7
70°	7226.8	5711.0	863.4	409.5	284.8	171.7	142.4	136.1	136.1	132.3	129.7
72.5°	6678.7	5067.5	581.1	365.0	258.1	153.9	125.9	120.8	118.3	115.7	114.4
75°	5588.9	4298.2	459.1	291.2	198.4	127.2	109.4	104.3	100.5	99.2	96.6
77.5°	3753.9	2793.8	339.5	227.6	146.2	103.0	91.6	86.5	82.7	81.4	77.6
80°	1442.0	1064.4	218.7	165.3	103.0	81.4	72.5	67.4	64.9	61.0	58.5
82.5°	424.7	344.6	122.1	101.7	66.1	56.0	52.1	48.3	44.5	40.7	39.4
85°	175.5	157.7	75.0	53.4	40.7	33.1	30.5	26.7	22.9	20.3	17.8
87.5°	81.4	67.4	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)