

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: P479951

Luminaire Tested: **IFLD-S-SA3B-722-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479951
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

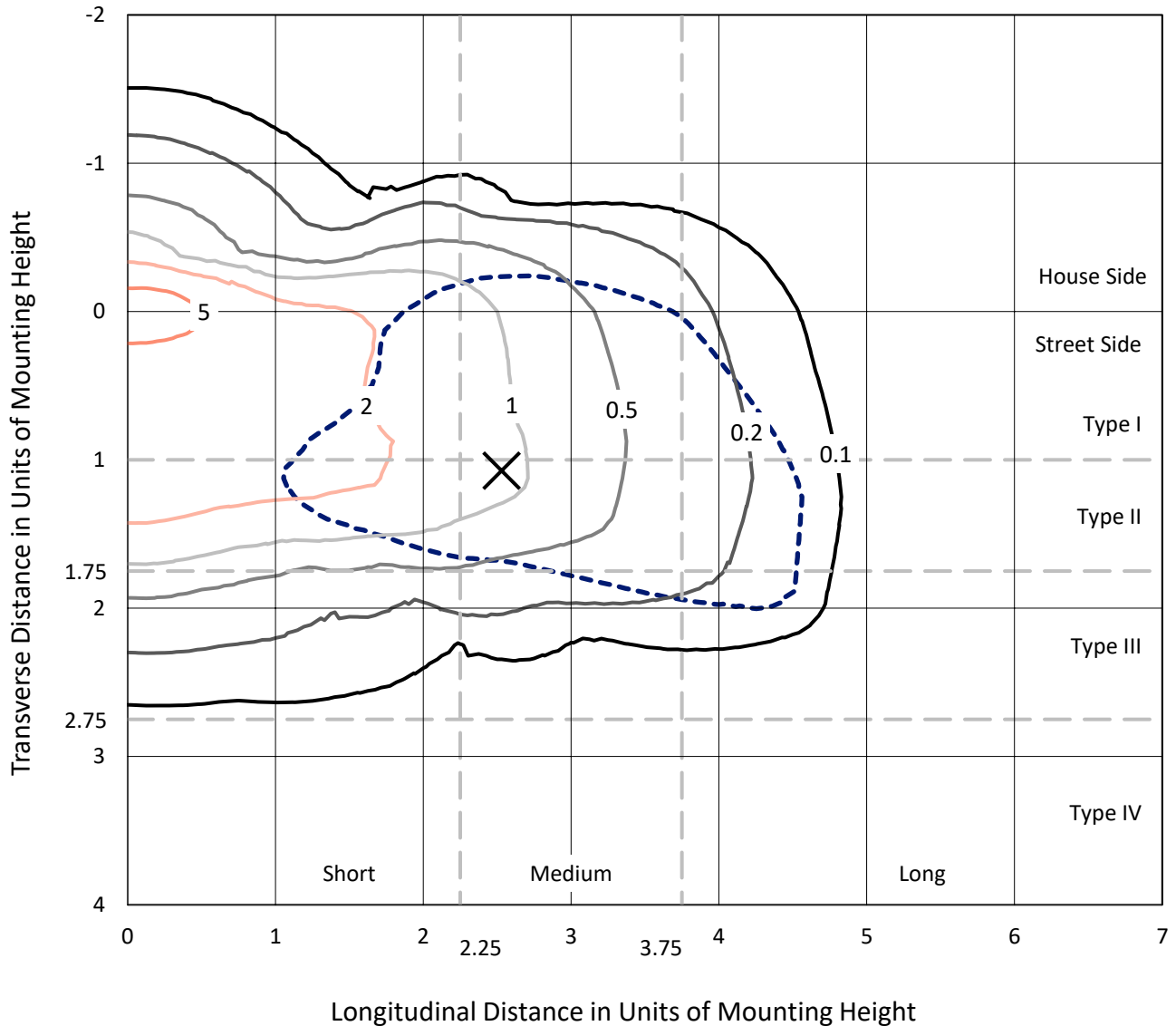
Lumens per Lamp: N/A
Luminaire Lumens: 12497 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
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

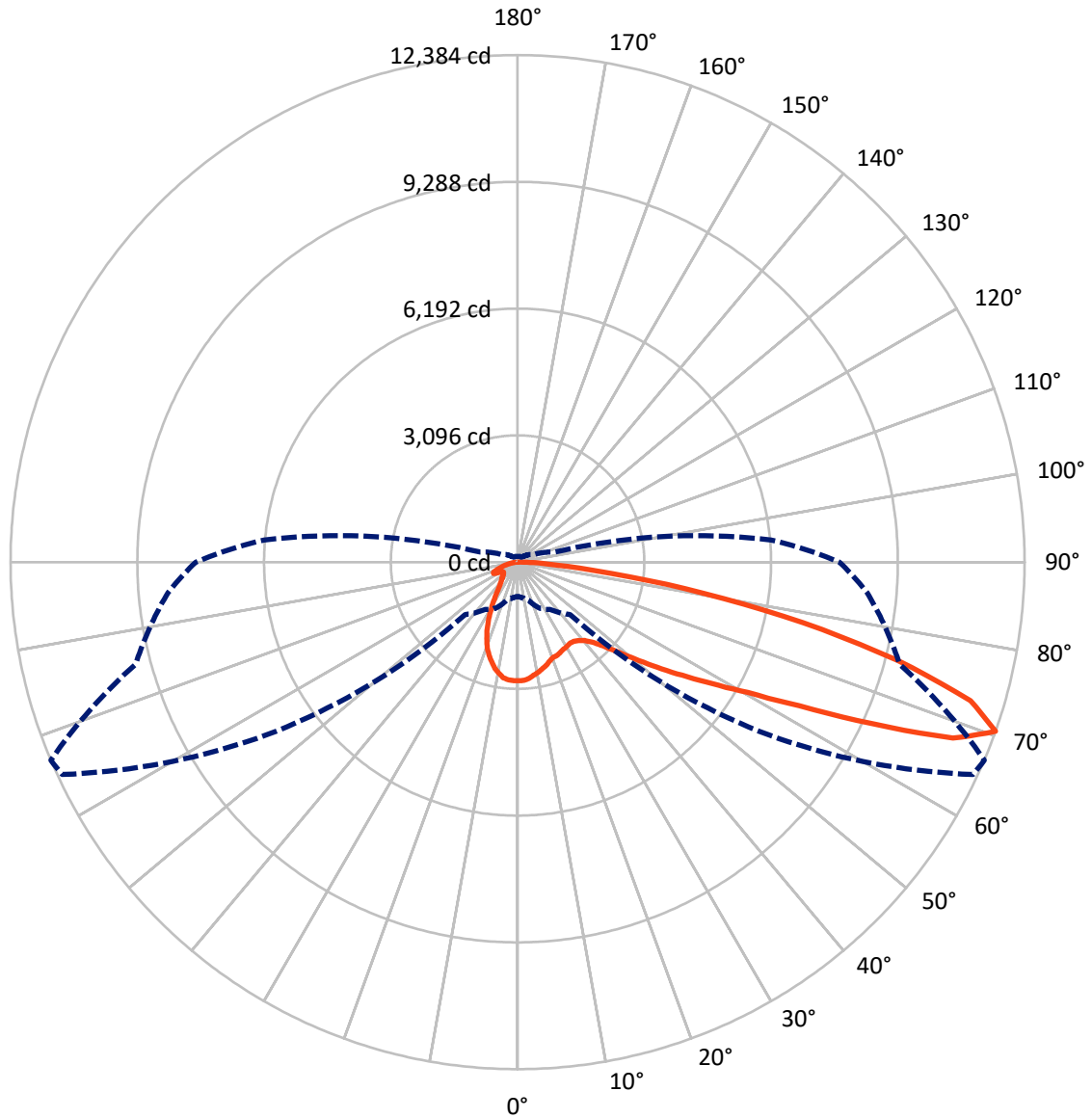
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 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
House Side	Lumens	2433.9	0.0	2433.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10063.1	0.0	10063.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	12497.0	0.0	12497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.4	2.0
10°-20°	604.5	4.8
20°-30°	816.4	6.5
30°-40°	1092.4	8.7
40°-50°	1606.4	12.9
50°-60°	2503.9	20.0
60°-70°	3084.4	24.7
70°-80°	2179.4	17.4
80°-90°	357.2	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°	12497.0	100.0
0°-180°	12497.0	100.0

Coefficient of Utilization



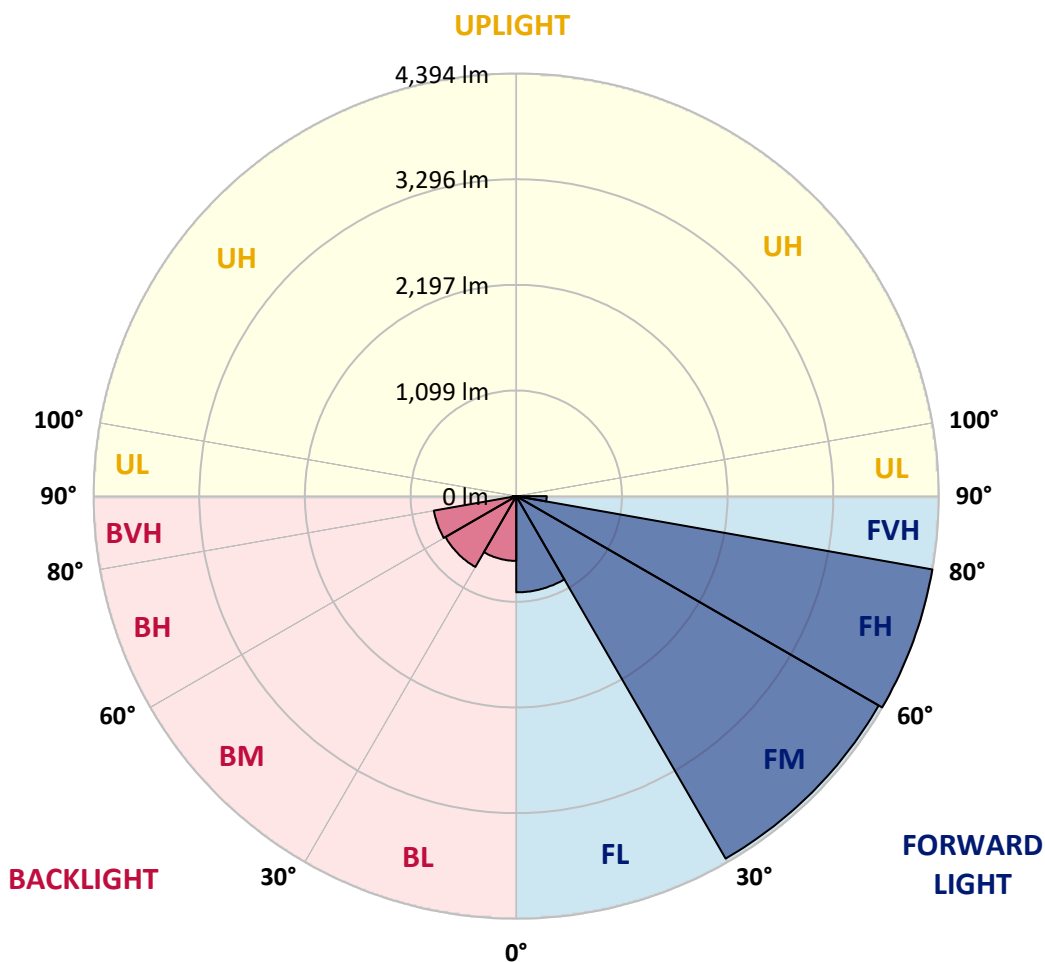
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1000.3	8.0			
FM (30°-60°)	4352.4	34.8			
FH (60°-80°)	4394.4	35.2			G2/5000
FVH (80°-90°)	316.0	2.5			G3/500
BL (0°-30°)	673.1	5.4	B2/1000		
BM (30°-60°)	850.2	6.8	B1/1000		
BH (60°-80°)	869.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.2	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°	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0
2.5°	2693.8	2724.2	2735.3	2751.9	2794.8	2826.6	2846.0	2868.1	2894.4	2916.5	2930.4
5°	2505.6	2522.2	2548.5	2566.5	2620.5	2706.2	2764.3	2858.4	2855.7	2890.3	2942.8
7.5°	2323.0	2339.6	2352.0	2388.0	2465.5	2543.0	2649.5	2801.7	2790.6	2870.9	2952.5
10°	2209.5	2197.1	2201.2	2262.1	2323.0	2410.2	2544.4	2699.3	2739.4	2864.0	2980.2
12.5°	2103.0	2089.2	2122.4	2161.1	2235.8	2314.7	2475.2	2614.9	2675.8	2839.1	2992.6
15°	2036.6	2026.9	2068.4	2085.0	2173.6	2267.7	2381.1	2551.3	2617.7	2808.6	2973.3
17.5°	1999.2	2007.5	2022.8	2058.7	2115.5	2195.7	2320.2	2508.4	2537.4	2771.3	2969.1
20°	2006.2	2015.8	2017.2	2032.4	2071.2	2133.4	2260.7	2462.7	2482.1	2764.3	2980.2
22.5°	2061.5	2047.7	2053.2	2043.5	2054.6	2103.0	2215.1	2401.9	2476.6	2706.2	2956.7
25°	2144.5	2125.1	2122.4	2089.2	2068.4	2082.3	2206.8	2386.6	2435.1	2688.3	2955.3
27.5°	2291.2	2262.1	2262.1	2212.3	2127.9	2105.8	2183.3	2361.7	2404.6	2671.6	2923.5
30°	2432.3	2432.3	2433.7	2363.1	2269.0	2159.7	2192.9	2352.0	2379.7	2621.8	2880.6
32.5°	2603.9	2599.7	2592.8	2558.2	2412.9	2249.7	2240.0	2339.6	2353.4	2605.2	2868.1
35°	2771.3	2760.2	2814.2	2783.7	2635.7	2425.4	2288.4	2345.1	2375.6	2580.3	2829.4
37.5°	2897.2	2904.1	3016.2	3035.5	2908.2	2624.6	2425.4	2400.5	2429.5	2616.3	2829.4
40°	3060.4	3088.1	3193.2	3258.3	3180.8	2887.5	2642.6	2493.2	2513.9	2696.6	2890.3
42.5°	3274.9	3298.4	3432.6	3517.0	3494.9	3222.3	2857.0	2686.9	2670.3	2830.8	2981.6
45°	3558.5	3562.7	3698.2	3814.5	3860.1	3572.3	3197.4	2931.8	2917.9	3061.8	3149.0
47.5°	3896.1	3891.9	3976.3	4100.9	4224.0	3990.2	3588.9	3303.9	3254.1	3392.5	3427.1
50°	4222.6	4204.6	4224.0	4383.1	4619.7	4513.2	4064.9	3759.1	3709.3	3785.4	3844.9
52.5°	4402.5	4424.6	4372.0	4582.3	5040.3	5131.6	4695.8	4302.9	4260.0	4297.3	4401.1
55°	4276.6	4322.2	4287.6	4486.9	5224.3	5885.7	5512.1	4932.4	4877.0	4863.2	5033.4
57.5°	3741.1	3824.2	3831.1	4146.5	5160.7	6469.5	6660.4	5675.4	5592.3	5451.2	5626.9
60°	2872.3	2955.3	3018.9	3392.5	4615.5	6818.2	7991.4	6732.4	6458.4	6093.2	6198.3
62.5°	2013.1	2069.8	2133.4	2363.1	3558.5	6613.4	9142.5	8221.1	7716.1	6769.7	6901.2
65°	1466.6	1510.8	1575.9	1711.5	2186.0	5472.0	9676.6	9989.3	9510.6	7630.3	7613.7
67.5°	1104.1	1131.7	1217.5	1434.7	1515.0	3380.0	9123.2	11857.1	11469.7	8586.4	8186.5
70°	835.7	859.2	939.4	1236.9	1415.4	1812.5	7197.3	12273.5	12384.2	9658.6	8571.1
72.5°	575.6	601.8	691.8	1030.8	1347.6	1437.5	4517.3	11150.1	11569.3	10100.0	8158.8
75°	352.8	370.8	423.4	781.7	1337.9	1405.7	2486.3	9137.0	9581.1	9332.1	7137.8
77.5°	249.0	247.7	257.3	458.0	1159.4	1414.0	1533.0	6695.0	7126.7	6877.7	4843.8
80°	181.2	182.6	192.3	273.9	787.2	1437.5	1207.8	4484.1	4612.8	3586.2	1910.7
82.5°	109.3	114.8	138.4	185.4	473.2	1297.8	1116.5	2491.8	2331.3	1151.1	525.8
85°	58.1	58.1	81.6	117.6	251.8	968.5	1075.0	1185.7	993.4	357.0	195.1
87.5°	13.8	13.8	23.5	47.0	101.0	463.5	733.3	471.8	377.7	120.4	80.2
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°	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0	2893.0
2.5°	2924.8	2908.2	2929.0	2887.5	2854.3	2855.7	2804.5	2801.7	2794.8	2758.8	2771.3
5°	2958.0	2944.2	2920.7	2875.0	2801.7	2728.4	2684.1	2627.4	2603.9	2591.4	2596.9
7.5°	2989.9	2965.0	2897.2	2833.5	2720.1	2581.7	2501.5	2425.4	2328.5	2317.5	2298.1
10°	2998.2	2945.6	2858.4	2722.8	2572.0	2418.5	2235.8	2094.7	2020.0	1961.9	1939.7
12.5°	2985.7	2963.6	2796.2	2621.8	2393.6	2152.8	1939.7	1740.5	1602.2	1530.2	1510.8
15°	2984.3	2945.6	2727.0	2468.3	2176.3	1862.3	1559.3	1319.9	1174.6	1115.1	1115.1
17.5°	2985.7	2893.0	2645.4	2313.3	1920.4	1495.6	1162.2	965.7	885.5	877.2	884.1
20°	2958.0	2854.3	2559.6	2130.7	1599.4	1123.4	844.0	763.7	763.7	774.8	778.9
22.5°	2933.1	2796.2	2424.0	1905.2	1272.9	813.5	686.2	662.7	689.0	708.4	716.7
25°	2898.6	2747.7	2285.6	1671.3	968.5	655.8	596.3	601.8	626.8	661.3	658.6
27.5°	2848.7	2663.3	2121.0	1400.2	720.8	565.9	550.7	553.4	579.7	594.9	592.2
30°	2792.0	2577.6	1968.8	1130.4	571.4	518.8	517.5	524.4	528.5	536.8	535.4
32.5°	2720.1	2464.1	1806.9	878.6	514.7	492.5	487.0	482.9	487.0	485.6	481.5
35°	2668.9	2403.2	1642.3	669.6	482.9	469.0	464.9	458.0	452.4	444.1	442.7
37.5°	2655.0	2342.4	1469.3	546.5	458.0	451.0	437.2	424.8	417.8	413.7	410.9
40°	2646.7	2302.2	1300.5	480.1	437.2	430.3	413.7	397.1	390.2	386.0	387.4
42.5°	2675.8	2280.1	1129.0	446.9	419.2	406.8	388.8	369.4	368.0	365.3	369.4
45°	2778.2	2307.8	969.9	423.4	401.2	380.5	357.0	347.3	345.9	343.1	345.9
47.5°	3010.6	2377.0	834.3	408.1	381.9	363.9	339.0	325.1	323.8	322.4	322.4
50°	3331.6	2590.0	720.8	390.2	369.4	344.5	321.0	305.8	303.0	297.5	297.5
52.5°	3835.2	2948.4	653.0	380.5	347.3	326.5	301.6	285.0	278.1	272.6	272.6
55°	4402.5	3392.5	640.6	363.9	323.8	304.4	282.2	265.6	258.7	251.8	249.0
57.5°	5048.6	3980.5	729.1	352.8	307.1	282.2	257.3	242.1	236.6	229.7	226.9
60°	5650.4	4567.1	1004.5	336.2	291.9	261.5	236.6	221.4	214.5	207.5	207.5
62.5°	6346.4	5293.5	1470.7	336.2	278.1	239.4	214.5	203.4	199.2	192.3	190.9
65°	7169.6	6044.8	1811.1	357.0	273.9	220.0	193.7	182.6	178.5	174.3	172.9
67.5°	7796.3	6476.4	1557.9	412.3	291.9	203.4	172.9	166.0	163.3	159.1	156.3
70°	7862.8	6213.6	939.4	445.5	309.9	186.8	155.0	148.0	148.0	143.9	141.1
72.5°	7266.4	5513.5	632.3	397.1	280.9	167.4	137.0	131.4	128.7	125.9	124.5
75°	6080.7	4676.4	499.5	316.8	215.8	138.4	119.0	113.5	109.3	107.9	105.2
77.5°	4084.3	3039.7	369.4	247.7	159.1	112.1	99.6	94.1	89.9	88.5	84.4
80°	1569.0	1158.0	238.0	179.9	112.1	88.5	78.9	73.3	70.6	66.4	63.6
82.5°	462.1	374.9	132.8	110.7	71.9	60.9	56.7	52.6	48.4	44.3	42.9
85°	190.9	171.6	81.6	58.1	44.3	36.0	33.2	29.1	24.9	22.1	19.4
87.5°	88.5	73.3	37.4	22.1	15.2	8.3	4.2	1.4	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)