

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: P480418

Luminaire Tested: **IFLD-S-SA3A-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

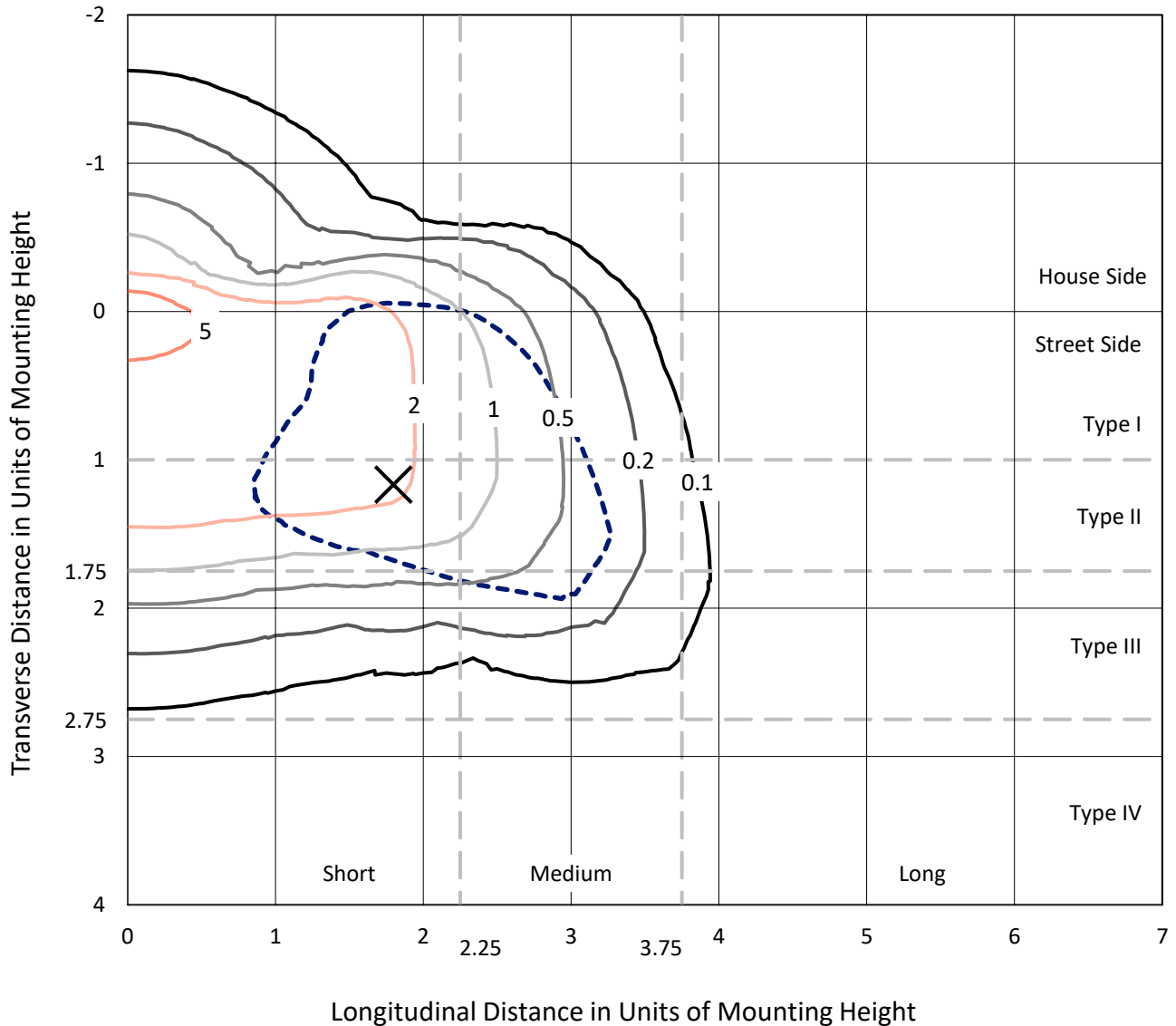
Lumens per Lamp: N/A
Luminaire Lumens: 12362.2 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

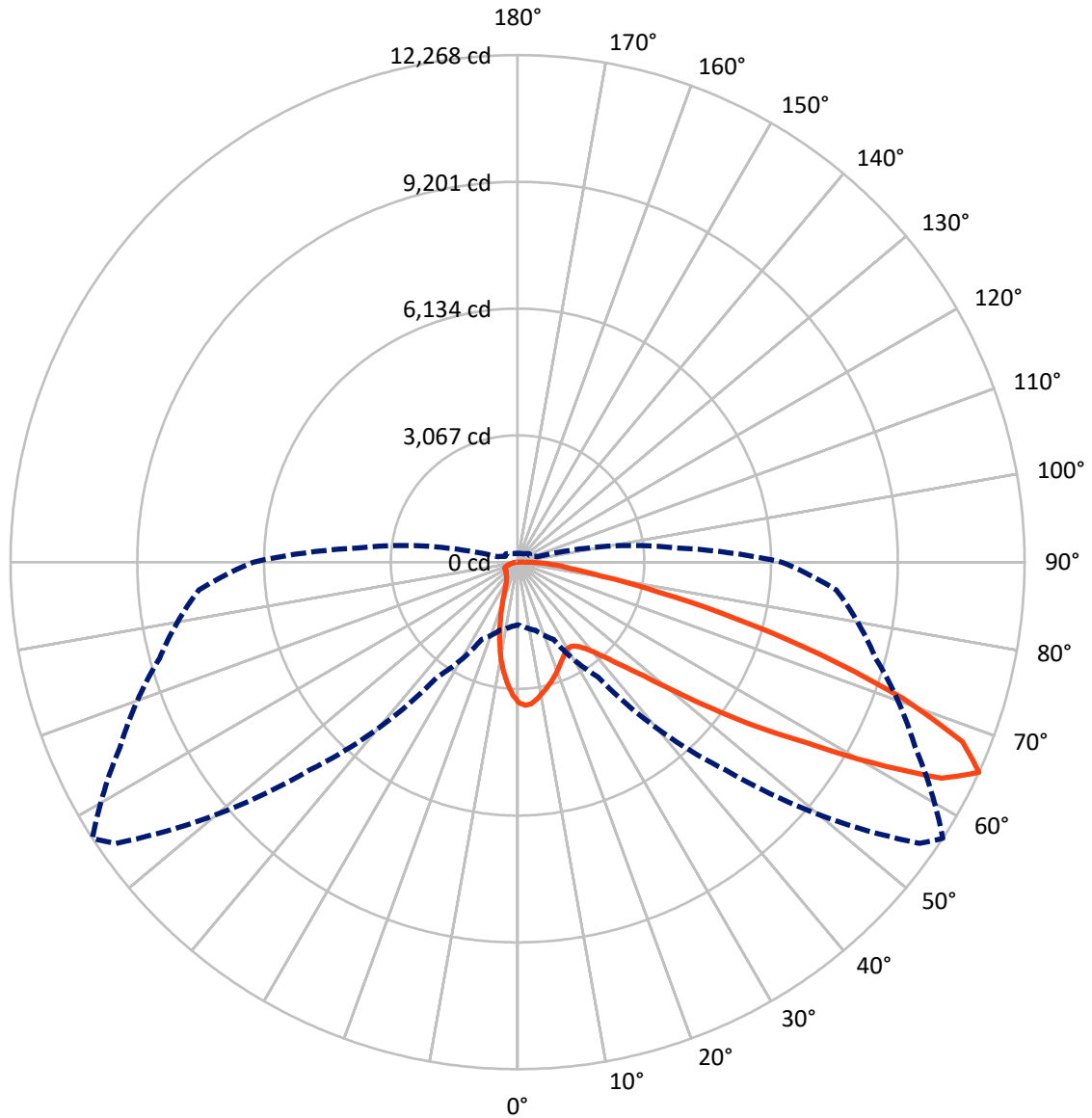
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1895.9	0.0	1895.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10466.3	0.0	10466.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	12362.2	0.0	12362.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.7	2.3
10°-20°	612.7	5.0
20°-30°	792.1	6.4
30°-40°	1065.9	8.6
40°-50°	1699.7	13.7
50°-60°	3002.1	24.3
60°-70°	3302.7	26.7
70°-80°	1381.6	11.2
80°-90°	220.8	1.8
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°	12362.2	100.0
0°-180°	12362.2	100.0

Coefficient of Utilization



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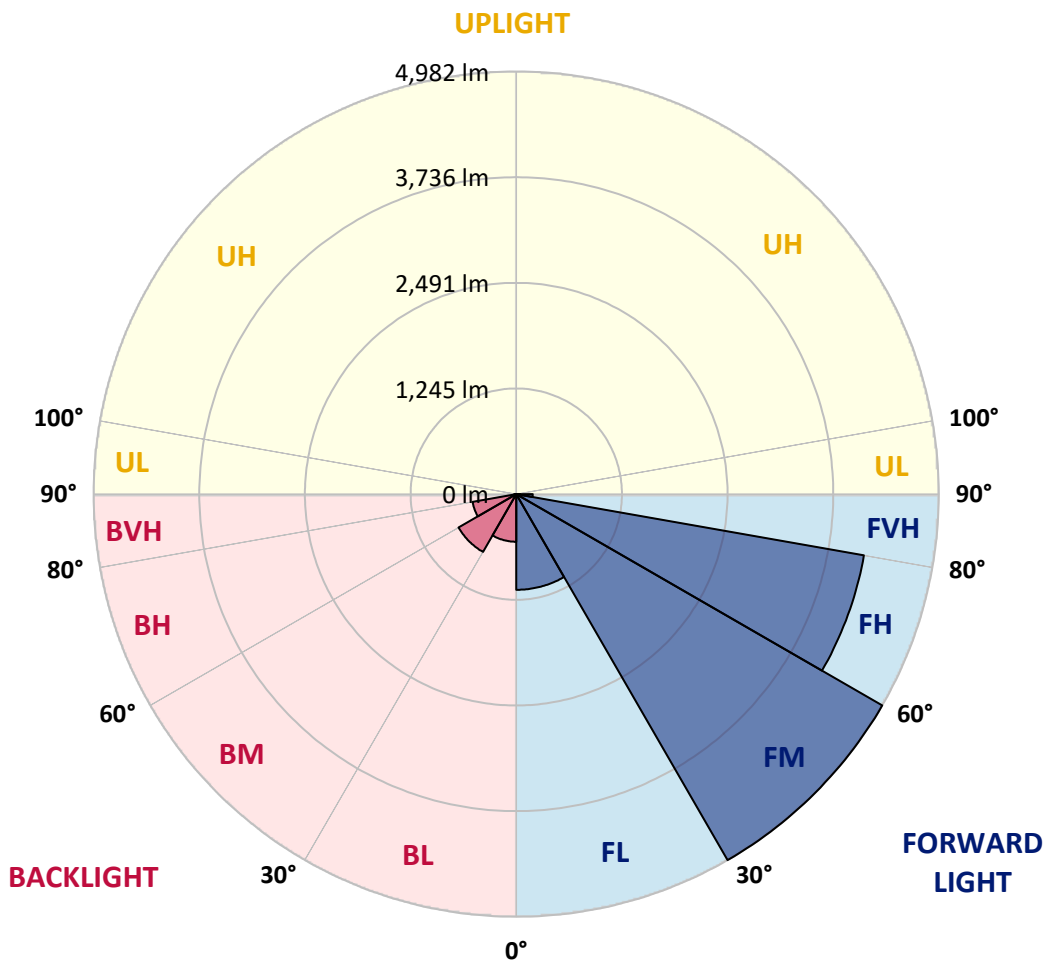
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.0	9.1			
FM (30°-60°)	4982.0	40.3			
FH (60°-80°)	4161.5	33.7			G2/5000
FVH (80°-90°)	194.9	1.6			G2/225
BL (0°-30°)	561.5	4.5	B2/1000		
BM (30°-60°)	785.8	6.4	B1/1000		
BH (60°-80°)	522.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	25.9	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4
2.5°	3491.2	3496.8	3496.8	3507.9	3470.4	3488.5	3485.7	3469.0	3474.5	3445.3	3416.1
5°	3392.5	3388.3	3410.6	3413.3	3442.6	3450.9	3457.9	3446.7	3449.5	3385.5	3357.7
7.5°	3139.3	3137.9	3175.5	3207.5	3268.7	3325.7	3363.3	3352.1	3367.4	3327.1	3261.7
10°	2838.9	2870.9	2909.8	2941.8	3054.5	3126.8	3224.2	3233.9	3292.3	3282.6	3164.4
12.5°	2613.6	2627.5	2656.7	2748.5	2851.4	2971.0	3110.1	3122.6	3179.7	3207.5	3104.6
15°	2428.6	2441.1	2478.6	2546.8	2662.2	2804.1	2980.8	3012.8	3126.8	3136.5	3026.7
17.5°	2293.6	2303.4	2328.4	2396.6	2491.2	2673.4	2840.3	2897.3	3047.5	3094.8	2946.0
20°	2240.8	2219.9	2233.8	2277.0	2371.5	2512.0	2727.6	2777.7	2969.6	3062.8	2869.5
22.5°	2217.1	2199.1	2207.4	2204.6	2279.7	2379.9	2606.6	2659.5	2895.9	3025.3	2801.3
25°	2235.2	2235.2	2226.9	2219.9	2228.3	2293.6	2475.9	2557.9	2797.2	2993.3	2731.8
27.5°	2332.6	2295.0	2299.2	2270.0	2261.7	2261.7	2417.4	2466.1	2765.2	2975.2	2674.8
30°	2395.2	2413.3	2414.7	2371.5	2328.4	2250.5	2363.2	2410.5	2738.7	2997.5	2641.4
32.5°	2555.1	2546.8	2523.1	2514.8	2450.8	2363.2	2389.6	2421.6	2723.4	3047.5	2651.1
35°	2715.1	2710.9	2712.3	2708.1	2641.4	2512.0	2460.6	2503.7	2751.3	3135.2	2684.5
37.5°	2880.6	2891.7	2939.0	2939.0	2868.1	2727.6	2659.5	2646.9	2852.8	3278.4	2763.8
40°	3046.1	3074.0	3133.8	3228.3	3128.2	2997.5	2887.6	2868.1	2975.2	3470.4	2954.3
42.5°	3204.7	3250.6	3368.8	3509.3	3475.9	3345.2	3199.1	3176.9	3227.0	3755.5	3220.0
45°	3407.8	3446.7	3633.1	3848.7	3894.6	3779.2	3608.1	3590.0	3587.2	4172.8	3585.8
47.5°	3716.6	3758.3	3944.7	4161.7	4303.5	4321.6	4129.7	4110.2	4043.4	4736.1	4121.3
50°	4103.2	4171.4	4328.6	4581.7	4787.6	4980.9	4926.7	4869.6	4738.9	5391.2	4800.1
52.5°	4385.6	4469.1	4681.9	5006.0	5369.0	5676.4	5871.1	5871.1	5570.7	6110.4	5616.6
55°	4460.7	4510.8	4779.2	5248.0	5869.7	6647.3	7054.8	7024.2	6561.0	6867.0	6566.6
57.5°	4161.7	4227.0	4552.5	5043.5	6132.6	7555.5	8230.1	8237.1	7643.2	7746.1	7504.1
60°	3338.2	3359.1	3743.0	4399.5	5879.5	8287.2	9835.3	9861.7	8874.1	8529.2	7981.2
62.5°	2307.6	2374.3	2663.6	3239.5	4871.0	8205.1	11383.4	11514.1	9860.3	8942.3	8056.3
65°	1518.9	1559.2	1713.6	2064.1	3391.1	7111.8	11864.6	12268.0	10614.2	8965.9	7741.9
67.5°	1101.6	1108.6	1154.5	1335.3	2037.7	5114.4	11042.6	11611.5	10896.5	8768.4	7004.7
70°	890.2	895.8	912.4	1027.9	1315.8	3200.5	9006.3	9897.9	10049.5	7832.3	5641.6
72.5°	723.3	730.2	751.1	859.6	1084.9	1780.4	6586.1	7672.4	8174.5	5794.6	3749.9
75°	568.9	574.5	624.5	731.6	1019.6	1222.6	4368.9	5433.0	5501.1	3386.9	1755.4
77.5°	389.5	399.2	460.4	620.4	959.7	1069.6	2723.4	3480.1	3122.6	1325.6	603.7
80°	247.6	261.5	297.7	470.1	848.5	1020.9	1694.2	2078.0	1367.3	453.4	290.7
82.5°	146.0	160.0	196.1	304.6	666.3	947.2	1193.4	1300.5	641.2	232.3	175.3
85°	80.7	90.4	118.2	183.6	390.9	841.5	955.6	933.3	367.2	123.8	109.9
87.5°	26.4	30.6	43.1	73.7	161.3	396.4	573.1	538.3	190.6	57.0	43.1
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°	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4	3399.4
2.5°	3396.7	3392.5	3329.9	3282.6	3201.9	3135.2	3108.7	3072.6	3071.2	3044.7	3037.8
5°	3314.6	3271.5	3175.5	3083.7	2940.4	2844.5	2756.8	2695.6	2670.6	2616.3	2603.8
7.5°	3208.9	3151.8	3004.4	2831.9	2663.6	2513.4	2377.1	2240.8	2164.3	2137.9	2108.6
10°	3099.0	2998.8	2780.5	2587.1	2352.1	2121.2	1907.0	1715.0	1610.7	1537.0	1505.0
12.5°	3011.4	2877.8	2599.6	2310.3	2000.2	1691.4	1442.4	1240.7	1122.5	1066.8	1041.8
15°	2912.6	2736.0	2402.1	2036.3	1649.6	1299.1	1055.7	897.1	849.9	823.4	819.3
17.5°	2808.3	2603.8	2187.9	1766.5	1307.5	977.8	820.6	756.7	735.8	724.7	719.1
20°	2710.9	2485.6	1968.2	1466.0	1023.7	784.5	710.8	677.4	676.0	681.6	680.2
22.5°	2573.2	2331.2	1751.2	1187.9	817.9	682.9	635.7	627.3	635.7	642.6	645.4
25°	2495.3	2204.6	1509.2	943.1	676.0	606.4	591.1	588.4	600.9	609.2	607.8
27.5°	2414.7	2073.9	1283.8	755.3	592.5	552.2	549.4	552.2	564.7	577.2	575.8
30°	2352.1	1969.6	1072.4	631.5	528.6	513.3	510.5	513.3	520.2	521.6	521.6
32.5°	2300.6	1845.8	893.0	548.0	489.6	477.1	479.9	478.5	479.9	481.3	482.7
35°	2270.0	1772.0	745.5	496.6	457.6	447.9	446.5	442.3	443.7	445.1	443.7
37.5°	2335.4	1735.9	628.7	460.4	435.4	427.0	424.2	421.5	417.3	417.3	417.3
40°	2434.1	1716.4	557.8	436.8	418.7	408.9	400.6	397.8	397.8	399.2	400.6
42.5°	2630.2	1748.4	509.1	418.7	397.8	386.7	378.3	379.7	383.9	388.1	385.3
45°	2914.0	1845.8	486.8	404.8	385.3	370.0	364.4	363.0	367.2	374.2	379.7
47.5°	3285.4	1997.4	478.5	392.2	376.9	356.1	349.1	353.3	358.9	368.6	364.4
50°	3893.2	2338.2	485.4	381.1	364.4	349.1	340.8	336.6	340.8	347.7	350.5
52.5°	4687.4	2957.1	511.9	375.6	356.1	343.6	329.7	322.7	326.9	332.4	332.4
55°	5637.4	3802.8	585.6	368.6	342.2	335.2	319.9	306.0	308.8	308.8	307.4
57.5°	6474.8	4441.2	673.2	358.9	333.8	324.1	304.6	287.9	285.1	286.5	287.9
60°	6850.3	4610.9	714.9	356.1	333.8	310.2	283.7	267.1	262.9	260.1	260.1
62.5°	6785.0	4317.4	630.1	343.6	342.2	299.0	264.3	246.2	240.6	235.1	236.5
65°	6389.9	3898.8	496.6	326.9	343.6	292.1	244.8	226.7	217.0	210.0	208.6
67.5°	5668.0	3328.5	393.6	314.4	329.7	279.6	228.1	207.2	198.9	191.9	189.2
70°	4434.3	2609.4	342.2	297.7	296.3	249.0	208.6	190.6	178.0	169.7	169.7
72.5°	2875.1	1649.6	293.5	264.3	255.9	208.6	180.8	169.7	160.0	153.0	153.0
75°	1301.9	766.4	236.5	221.2	208.6	166.9	153.0	147.4	139.1	132.1	132.1
77.5°	467.4	326.9	176.6	173.9	155.8	129.4	123.8	119.6	114.1	107.1	107.1
80°	261.5	207.2	132.1	126.6	108.5	96.0	89.0	89.0	86.2	82.1	80.7
82.5°	165.5	134.9	97.4	84.8	70.9	64.0	61.2	59.8	58.4	52.9	51.5
85°	104.3	91.8	64.0	50.1	41.7	32.0	30.6	29.2	26.4	23.6	23.6
87.5°	47.3	52.9	25.0	15.3	11.1	7.0	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)