

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: P480496

Luminaire Tested: **IFLD-S-SA3A-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480496
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

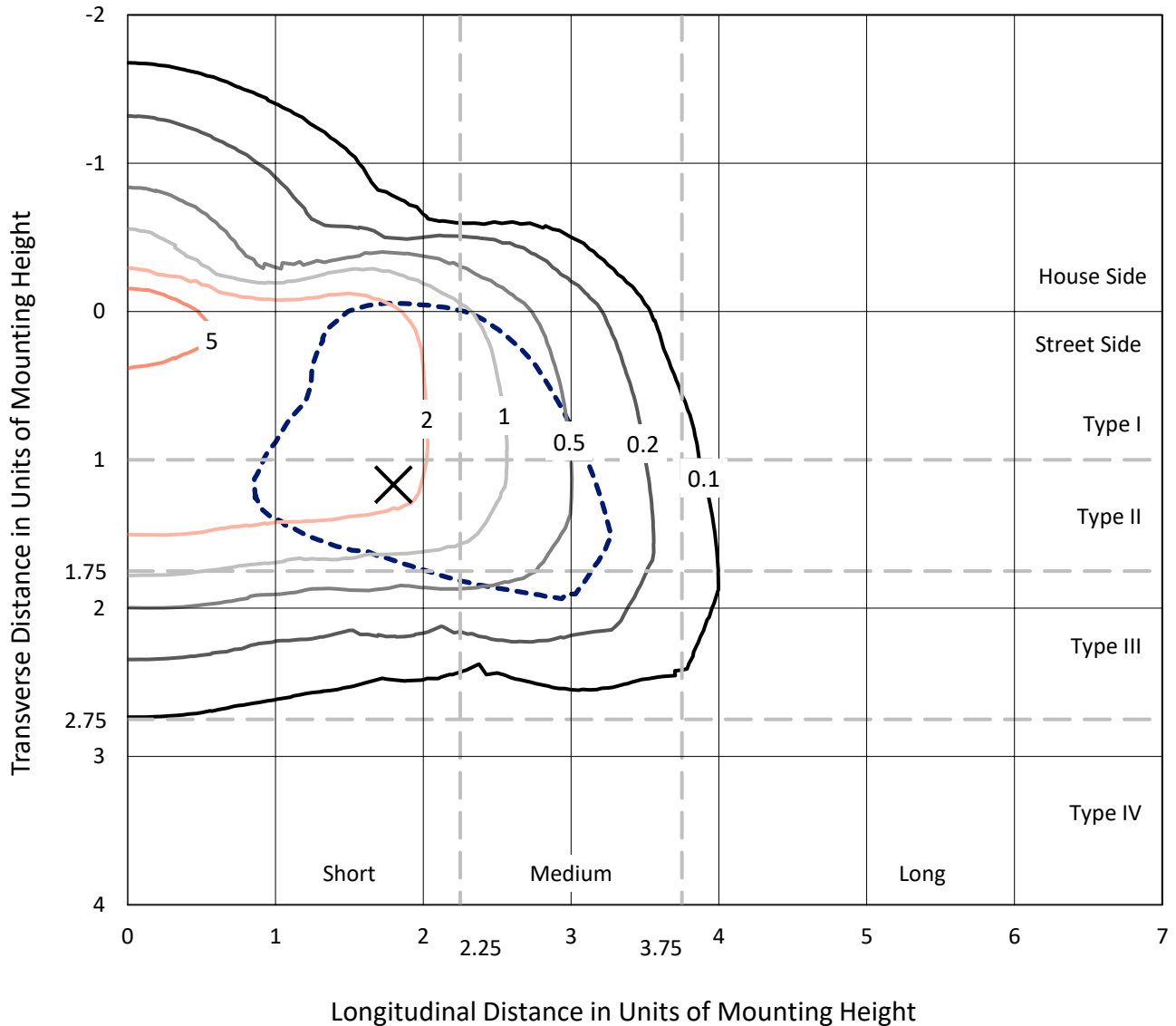
Lumens per Lamp: N/A
Luminaire Lumens: 13575.9 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

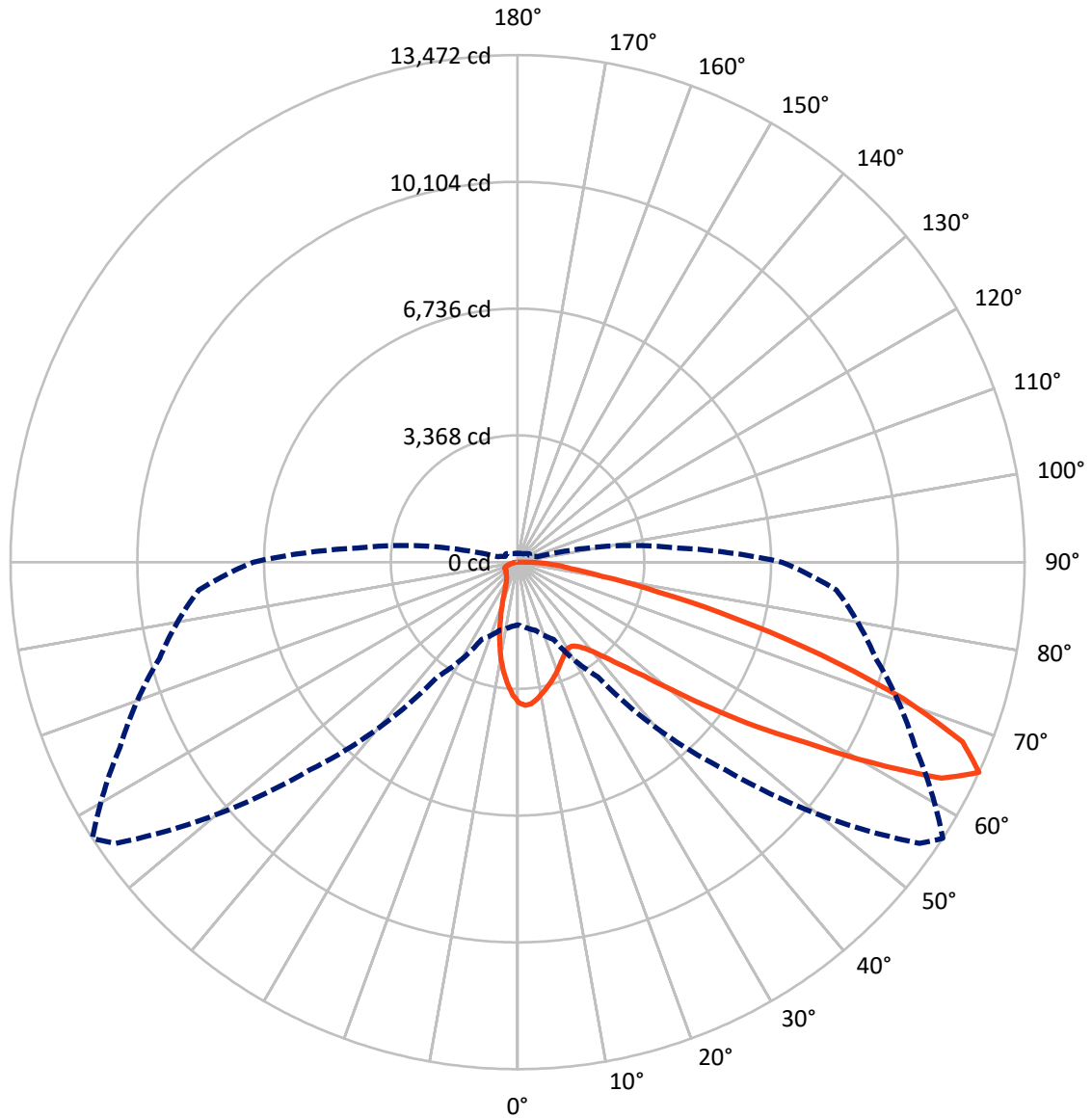
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.3 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	2082.0	0.0	2082.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11493.9	0.0	11493.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	13575.9	0.0	13575.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.6	2.3
10°-20°	672.8	5.0
20°-30°	869.9	6.4
30°-40°	1170.6	8.6
40°-50°	1866.6	13.7
50°-60°	3296.8	24.3
60°-70°	3626.9	26.7
70°-80°	1517.2	11.2
80°-90°	242.5	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°	13575.9	100.0
0°-180°	13575.9	100.0

Coefficient of Utilization



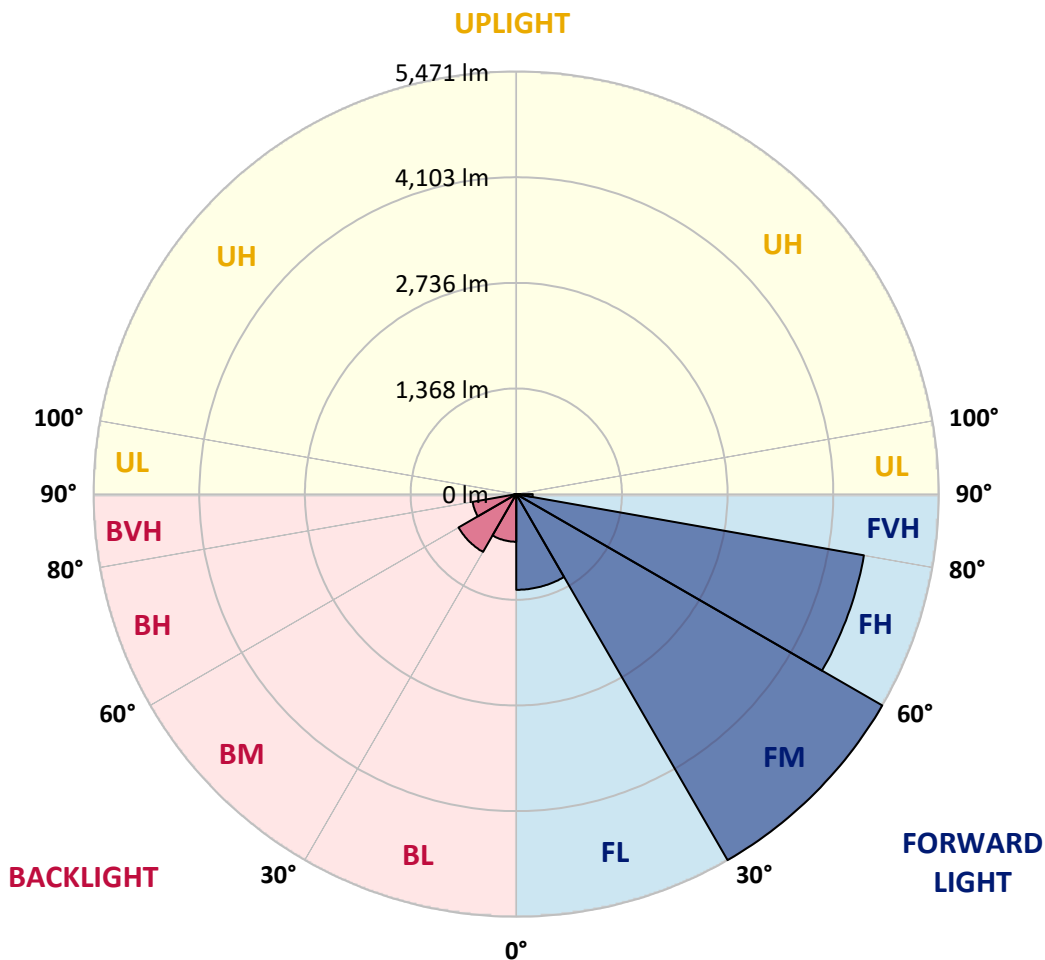
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.8	9.1			
FM (30°-60°)	5471.1	40.3			
FH (60°-80°)	4570.1	33.7			G2/5000
FVH (80°-90°)	214.0	1.6			G2/225
BL (0°-30°)	616.6	4.5	B2/1000		
BM (30°-60°)	862.9	6.4	B1/1000		
BH (60°-80°)	574.1	4.2	B2/1000		G2/1000
BVH (80°-90°)	28.4	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°	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2
2.5°	3834.0	3840.1	3840.1	3852.3	3811.1	3830.9	3827.9	3809.6	3815.7	3783.6	3751.5
5°	3725.5	3721.0	3745.4	3748.5	3780.5	3789.7	3797.3	3785.1	3788.2	3717.9	3687.4
7.5°	3447.5	3446.0	3487.3	3522.4	3589.6	3652.2	3693.5	3681.2	3698.0	3653.7	3582.0
10°	3117.6	3152.7	3195.5	3230.6	3354.4	3433.8	3540.7	3551.4	3615.6	3604.9	3475.0
12.5°	2870.1	2885.4	2917.5	3018.3	3131.3	3262.7	3415.5	3429.2	3491.8	3522.4	3409.4
15°	2667.0	2680.7	2722.0	2796.8	2923.6	3079.4	3273.4	3308.5	3433.8	3444.5	3323.8
17.5°	2518.8	2529.5	2557.0	2631.9	2735.7	2935.8	3119.1	3181.8	3346.7	3398.7	3235.2
20°	2460.8	2437.9	2453.1	2500.5	2604.4	2758.6	2995.4	3050.4	3261.2	3363.5	3151.2
22.5°	2434.8	2415.0	2424.1	2421.1	2503.6	2613.5	2862.5	2920.6	3180.2	3322.3	3076.4
25°	2454.7	2454.7	2445.5	2437.9	2447.0	2518.8	2718.9	2809.0	3071.8	3287.2	3000.0
27.5°	2561.6	2520.4	2524.9	2492.9	2483.7	2483.7	2654.8	2708.2	3036.6	3267.3	2937.4
30°	2630.3	2650.2	2651.7	2604.4	2557.0	2471.5	2595.2	2647.1	3007.6	3291.7	2900.7
32.5°	2806.0	2796.8	2770.9	2761.7	2691.4	2595.2	2624.2	2659.4	2990.8	3346.7	2911.4
35°	2981.7	2977.1	2978.6	2974.0	2900.7	2758.6	2702.1	2749.5	3021.4	3443.0	2948.0
37.5°	3163.4	3175.6	3227.6	3227.6	3149.7	2995.4	2920.6	2906.8	3132.9	3600.3	3035.1
40°	3345.2	3375.7	3441.4	3545.3	3435.3	3291.7	3171.1	3149.7	3267.3	3811.1	3244.4
42.5°	3519.3	3569.7	3699.6	3853.8	3817.2	3673.6	3513.2	3488.8	3543.8	4124.2	3536.1
45°	3742.3	3785.1	3989.8	4226.6	4277.0	4150.2	3962.3	3942.4	3939.4	4582.5	3937.9
47.5°	4081.4	4127.3	4332.0	4570.2	4726.0	4745.9	4535.1	4513.7	4440.4	5201.1	4525.9
50°	4506.1	4580.9	4753.5	5031.5	5257.6	5469.9	5410.4	5347.7	5204.1	5920.5	5271.4
52.5°	4816.2	4907.8	5141.5	5497.4	5896.1	6233.7	6447.5	6447.5	6117.6	6710.3	6168.0
55°	4898.7	4953.6	5248.4	5763.2	6446.0	7299.9	7747.4	7713.8	7205.2	7541.2	7211.3
57.5°	4570.2	4642.0	4999.5	5538.7	6734.7	8297.3	9038.1	9045.8	8393.5	8506.6	8240.8
60°	3666.0	3688.9	4110.5	4831.4	6456.7	9100.8	10800.9	10829.9	9745.4	9366.5	8764.7
62.5°	2534.1	2607.4	2925.1	3557.5	5349.3	9010.6	12501.0	12644.5	10828.4	9820.2	8847.2
65°	1668.0	1712.3	1881.9	2266.8	3724.0	7810.0	13029.5	13472.4	11656.3	9846.2	8502.0
67.5°	1209.8	1217.4	1267.8	1466.4	2237.8	5616.6	12126.7	12751.5	11966.3	9629.3	7692.4
70°	977.6	983.7	1002.0	1128.8	1445.0	3514.7	9890.5	10869.6	11036.1	8601.3	6195.5
72.5°	794.3	801.9	824.8	944.0	1191.4	1955.2	7232.7	8425.6	8977.0	6363.5	4118.1
75°	624.7	630.9	685.8	803.5	1119.6	1342.7	4797.8	5966.4	6041.2	3719.4	1927.7
77.5°	427.7	438.4	505.6	681.3	1054.0	1174.6	2990.8	3821.8	3429.2	1455.7	662.9
80°	271.9	287.2	326.9	516.3	931.8	1121.2	1860.5	2282.1	1501.5	498.0	319.2
82.5°	160.4	175.7	215.4	334.5	731.7	1040.2	1310.6	1428.2	704.2	255.1	192.5
85°	88.6	99.3	129.8	201.6	429.2	924.1	1049.4	1024.9	403.3	135.9	120.7
87.5°	29.0	33.6	47.4	81.0	177.2	435.3	629.3	591.1	209.3	62.6	47.4
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°	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2	3733.2
2.5°	3730.1	3725.5	3656.8	3604.9	3516.3	3443.0	3413.9	3374.2	3372.7	3343.7	3336.0
5°	3640.0	3592.6	3487.3	3386.4	3229.1	3123.7	3027.5	2960.3	2932.8	2873.2	2859.5
7.5°	3523.9	3461.3	3299.4	3110.0	2925.1	2760.2	2610.5	2460.8	2376.8	2347.7	2315.7
10°	3403.2	3293.3	3053.4	2841.1	2583.0	2329.4	2094.2	1883.4	1768.8	1687.9	1652.7
12.5°	3307.0	3160.4	2854.9	2537.2	2196.5	1857.4	1584.0	1362.5	1232.7	1171.6	1144.1
15°	3198.6	3004.6	2638.0	2236.2	1811.6	1426.7	1159.4	985.2	933.3	904.3	899.7
17.5°	3084.0	2859.5	2402.7	1939.9	1435.8	1073.8	901.2	831.0	808.0	795.8	789.7
20°	2977.1	2729.6	2161.4	1610.0	1124.2	861.5	780.5	743.9	742.4	748.5	746.9
22.5°	2825.9	2560.1	1923.1	1304.5	898.2	750.0	698.1	688.9	698.1	705.7	708.8
25°	2740.3	2421.1	1657.3	1035.6	742.4	666.0	649.2	646.1	659.9	669.0	667.5
27.5°	2651.7	2277.5	1409.9	829.4	650.7	606.4	603.4	606.4	620.2	633.9	632.4
30°	2583.0	2162.9	1177.7	693.5	580.4	563.6	560.6	563.6	571.3	572.8	572.8
32.5°	2526.5	2027.0	980.6	601.8	537.7	523.9	527.0	525.5	527.0	528.5	530.0
35°	2492.9	1946.0	818.7	545.3	502.5	491.9	490.3	485.7	487.3	488.8	487.3
37.5°	2564.7	1906.3	690.4	505.6	478.1	468.9	465.9	462.8	458.2	458.2	458.2
40°	2673.1	1884.9	612.5	479.6	459.8	449.1	439.9	436.9	436.9	438.4	439.9
42.5°	2888.5	1920.1	559.1	459.8	436.9	424.6	415.5	417.0	421.6	426.2	423.1
45°	3200.1	2027.0	534.6	444.5	423.1	406.3	400.2	398.7	403.3	410.9	417.0
47.5°	3607.9	2193.5	525.5	430.8	413.9	391.0	383.4	388.0	394.1	404.8	400.2
50°	4275.4	2567.7	533.1	418.5	400.2	383.4	374.2	369.7	374.2	381.9	384.9
52.5°	5147.6	3247.4	562.1	412.4	391.0	377.3	362.0	354.4	359.0	365.1	365.1
55°	6190.9	4176.1	643.1	404.8	375.8	368.1	351.3	336.0	339.1	339.1	337.6
57.5°	7110.5	4877.3	739.3	394.1	366.6	355.9	334.5	316.2	313.1	314.7	316.2
60°	7522.9	5063.6	785.1	391.0	366.6	340.6	311.6	293.3	288.7	285.6	285.6
62.5°	7451.1	4741.3	692.0	377.3	375.8	328.4	290.2	270.4	264.3	258.1	259.7
65°	7017.3	4281.5	545.3	359.0	377.3	320.8	268.8	249.0	238.3	230.7	229.1
67.5°	6224.5	3655.3	432.3	345.2	362.0	307.0	250.5	227.6	218.4	210.8	207.7
70°	4869.6	2865.6	375.8	326.9	325.4	273.4	229.1	209.3	195.5	186.4	186.4
72.5°	3157.3	1811.6	322.3	290.2	281.1	229.1	198.6	186.4	175.7	168.0	168.0
75°	1429.7	841.6	259.7	242.9	229.1	183.3	168.0	161.9	152.7	145.1	145.1
77.5°	513.2	359.0	194.0	190.9	171.1	142.1	135.9	131.4	125.3	117.6	117.6
80°	287.2	227.6	145.1	139.0	119.1	105.4	97.8	97.8	94.7	90.1	88.6
82.5°	181.8	148.2	106.9	93.2	77.9	70.3	67.2	65.7	64.2	58.0	56.5
85°	114.6	100.8	70.3	55.0	45.8	35.1	33.6	32.1	29.0	26.0	26.0
87.5°	51.9	58.0	27.5	16.8	12.2	7.6	4.6	1.5	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)