

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: P480341

Luminaire Tested: **IFLD-S-SA3B-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480341
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

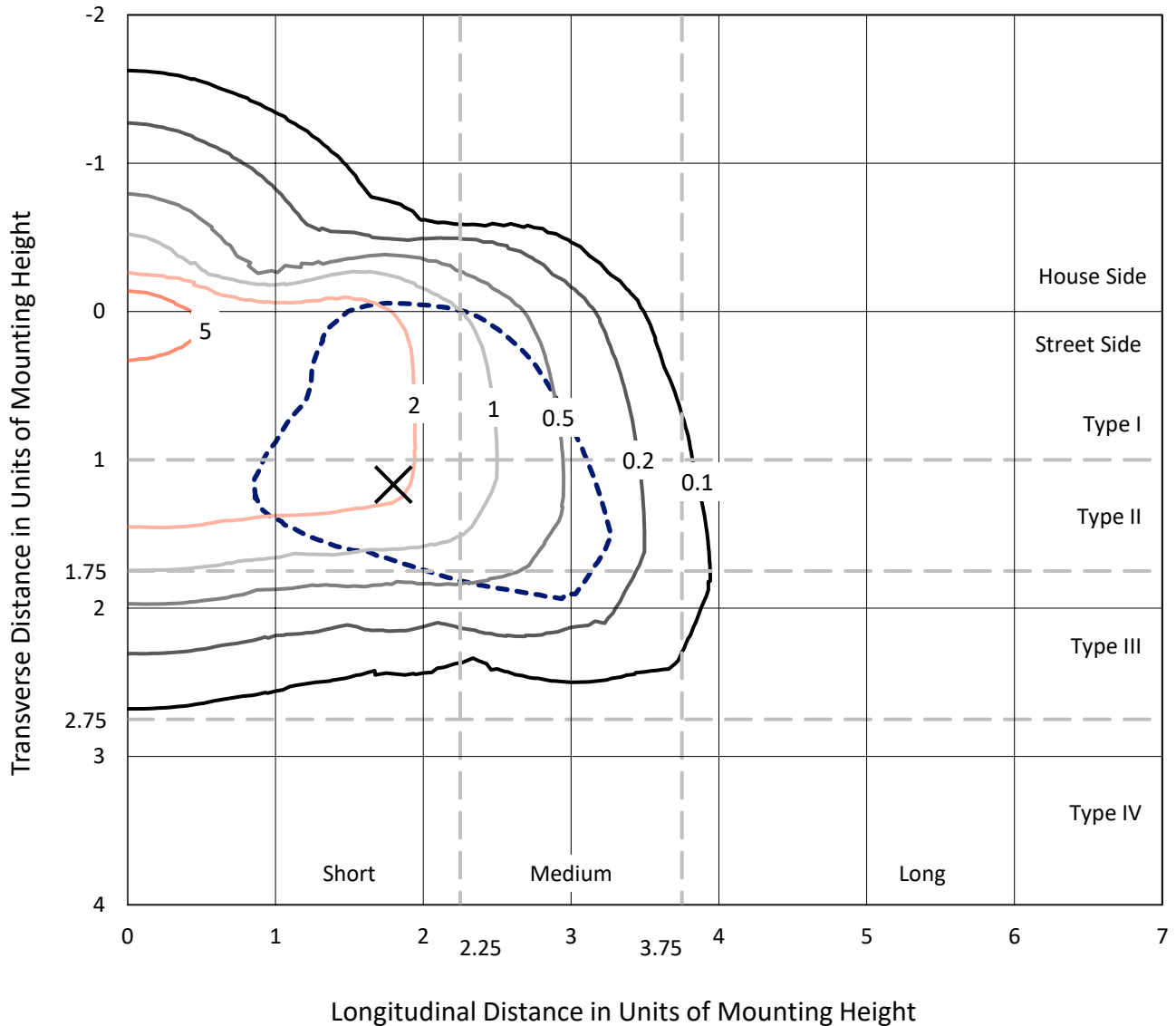
Lumens per Lamp: N/A
Luminaire Lumens: 12367.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

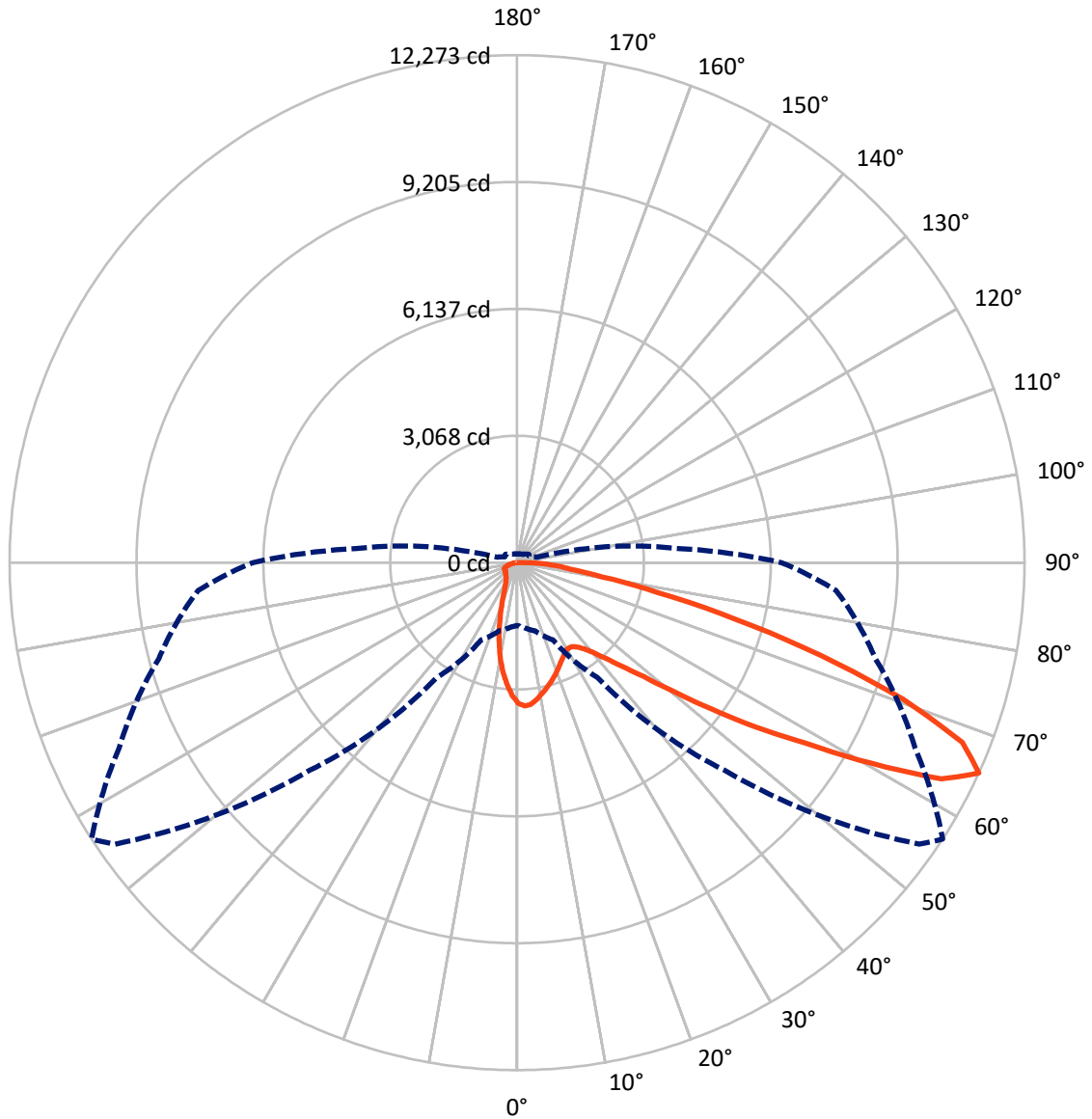
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	1896.7	0.0	1896.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10470.8	0.0	10470.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	12367.5	0.0	12367.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	2.3
10°-20°	612.9	5.0
20°-30°	792.5	6.4
30°-40°	1066.4	8.6
40°-50°	1700.4	13.7
50°-60°	3003.4	24.3
60°-70°	3304.1	26.7
70°-80°	1382.2	11.2
80°-90°	220.9	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°	12367.5	100.0
0°-180°	12367.5	100.0

Coefficient of Utilization



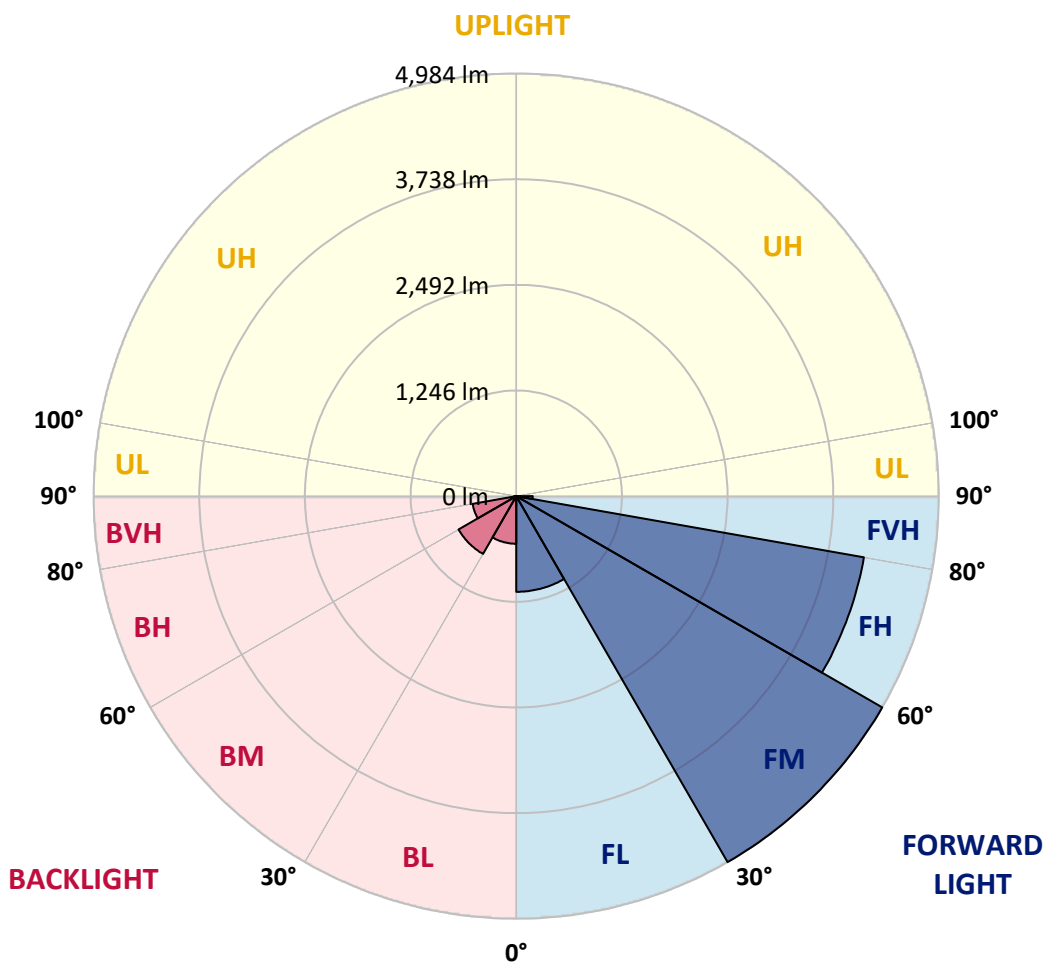
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.5	9.1			
FM (30°-60°)	4984.1	40.3			
FH (60°-80°)	4163.3	33.7			G2/5000
FVH (80°-90°)	195.0	1.6			G2/225
BL (0°-30°)	561.7	4.5	B2/1000		
BM (30°-60°)	786.1	6.4	B1/1000		
BH (60°-80°)	523.0	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°	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9
2.5°	3492.7	3498.3	3498.3	3509.4	3471.9	3489.9	3487.2	3470.5	3476.0	3446.8	3417.6
5°	3393.9	3389.8	3412.0	3414.8	3444.0	3452.4	3459.3	3448.2	3451.0	3387.0	3359.1
7.5°	3140.7	3139.3	3176.9	3208.9	3270.1	3327.1	3364.7	3353.6	3368.9	3328.5	3263.1
10°	2840.1	2872.1	2911.1	2943.1	3055.8	3128.2	3225.6	3235.3	3293.7	3284.0	3165.7
12.5°	2614.7	2628.6	2657.8	2749.7	2852.6	2972.3	3111.5	3124.0	3181.0	3208.9	3105.9
15°	2429.6	2442.1	2479.7	2547.9	2663.4	2805.3	2982.0	3014.0	3128.2	3137.9	3028.0
17.5°	2294.6	2304.4	2329.4	2397.6	2492.2	2674.5	2841.5	2898.5	3048.8	3096.1	2947.3
20°	2241.7	2220.9	2234.8	2277.9	2372.6	2513.1	2728.8	2778.9	2970.9	3064.1	2870.7
22.5°	2218.1	2200.0	2208.4	2205.6	2280.7	2380.9	2607.7	2660.6	2897.2	3026.6	2802.5
25°	2236.2	2236.2	2227.8	2220.9	2229.2	2294.6	2476.9	2559.0	2798.4	2994.6	2733.0
27.5°	2333.6	2296.0	2300.2	2271.0	2262.6	2262.6	2418.5	2467.2	2766.4	2976.5	2675.9
30°	2396.2	2414.3	2415.7	2372.6	2329.4	2251.5	2364.2	2411.5	2739.9	2998.7	2642.5
32.5°	2556.2	2547.9	2524.2	2515.9	2451.9	2364.2	2390.6	2422.6	2724.6	3048.8	2652.2
35°	2716.3	2712.1	2713.5	2709.3	2642.5	2513.1	2461.6	2504.7	2752.4	3136.5	2685.6
37.5°	2881.9	2893.0	2940.3	2940.3	2869.3	2728.8	2660.6	2648.1	2854.0	3279.8	2765.0
40°	3047.4	3075.3	3135.1	3229.7	3129.5	2998.7	2888.8	2869.3	2976.5	3471.9	2955.6
42.5°	3206.1	3252.0	3370.3	3510.8	3477.4	3346.6	3200.5	3178.2	3228.3	3757.1	3221.4
45°	3409.2	3448.2	3634.7	3850.4	3896.3	3780.8	3609.6	3591.5	3588.7	4174.6	3587.4
47.5°	3718.2	3759.9	3946.4	4163.4	4305.4	4323.5	4131.4	4112.0	4045.2	4738.1	4123.1
50°	4105.0	4173.2	4330.4	4583.7	4789.6	4983.1	4928.8	4871.7	4740.9	5393.6	4802.2
52.5°	4387.5	4471.0	4683.9	5008.1	5371.3	5678.8	5873.6	5873.6	5573.1	6113.0	5619.0
55°	4462.6	4512.7	4781.3	5250.2	5872.2	6650.1	7057.8	7027.2	6563.8	6870.0	6569.4
57.5°	4163.4	4228.8	4554.5	5045.7	6135.2	7558.8	8233.7	8240.6	7646.4	7749.4	7507.3
60°	3339.7	3360.5	3744.6	4401.4	5882.0	8290.7	9839.5	9865.9	8877.9	8532.8	7984.6
62.5°	2308.5	2375.3	2664.8	3240.9	4873.1	8208.6	11388.2	11519.1	9864.5	8946.1	8059.7
65°	1519.5	1559.9	1714.4	2065.0	3392.5	7114.9	11869.7	12273.3	10618.7	8969.8	7745.2
67.5°	1102.1	1109.0	1155.0	1335.9	2038.6	5116.6	11047.3	11616.5	10901.2	8772.2	7007.7
70°	890.6	896.1	912.8	1028.3	1316.4	3201.9	9010.1	9902.1	10053.8	7835.7	5644.0
72.5°	723.6	730.6	751.4	860.0	1085.4	1781.2	6588.9	7675.7	8178.0	5797.1	3751.6
75°	569.1	574.7	624.8	731.9	1020.0	1223.2	4370.8	5435.3	5503.5	3388.4	1756.1
77.5°	389.6	399.4	460.6	620.6	960.2	1070.1	2724.6	3481.6	3124.0	1326.1	603.9
80°	247.7	261.6	297.8	470.3	848.8	1021.4	1694.9	2078.9	1367.9	453.6	290.8
82.5°	146.1	160.0	196.2	304.7	666.5	947.6	1193.9	1301.1	641.5	232.4	175.3
85°	80.7	90.4	118.3	183.7	391.0	841.9	956.0	933.7	367.4	123.8	109.9
87.5°	26.4	30.6	43.1	73.8	161.4	396.6	573.3	538.5	190.6	57.1	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°	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9	3400.9
2.5°	3398.1	3393.9	3331.3	3284.0	3203.3	3136.5	3110.1	3073.9	3072.5	3046.1	3039.1
5°	3316.0	3272.9	3176.9	3085.0	2941.7	2845.7	2758.0	2696.8	2671.7	2617.5	2604.9
7.5°	3210.3	3153.2	3005.7	2833.1	2664.8	2514.5	2378.1	2241.7	2165.2	2138.8	2109.6
10°	3100.3	3000.1	2781.7	2588.2	2353.1	2122.1	1907.8	1715.8	1611.4	1537.6	1505.6
12.5°	3012.7	2879.1	2600.8	2311.3	2001.0	1692.1	1443.0	1241.2	1123.0	1067.3	1042.3
15°	2913.9	2737.1	2403.2	2037.2	1650.3	1299.7	1056.2	897.5	850.2	823.8	819.6
17.5°	2809.5	2604.9	2188.9	1767.2	1308.0	978.2	821.0	757.0	736.1	725.0	719.4
20°	2712.1	2486.7	1969.0	1466.7	1024.2	784.8	711.1	677.7	676.3	681.8	680.5
22.5°	2574.3	2332.2	1751.9	1188.4	818.2	683.2	635.9	627.6	635.9	642.9	645.7
25°	2496.4	2205.6	1509.8	943.5	676.3	606.7	591.4	588.6	601.1	609.5	608.1
27.5°	2415.7	2074.8	1284.4	755.6	592.8	552.4	549.7	552.4	565.0	577.5	576.1
30°	2353.1	1970.4	1072.9	631.8	528.8	513.5	510.7	513.5	520.4	521.8	521.8
32.5°	2301.6	1846.6	893.4	548.3	489.8	477.3	480.1	478.7	480.1	481.5	482.9
35°	2271.0	1772.8	745.9	496.8	457.8	448.1	446.7	442.5	443.9	445.3	443.9
37.5°	2336.4	1736.6	629.0	460.6	435.5	427.2	424.4	421.6	417.5	417.5	417.5
40°	2435.2	1717.1	558.0	436.9	418.8	409.1	400.8	398.0	398.0	399.4	400.8
42.5°	2631.4	1749.1	509.3	418.8	398.0	386.8	378.5	379.9	384.1	388.2	385.5
45°	2915.2	1846.6	487.0	404.9	385.5	370.1	364.6	363.2	367.4	374.3	379.9
47.5°	3286.8	1998.2	478.7	392.4	377.1	356.2	349.3	353.4	359.0	368.8	364.6
50°	3894.9	2339.2	485.6	381.3	364.6	349.3	340.9	336.7	340.9	347.9	350.7
52.5°	4689.4	2958.4	512.1	375.7	356.2	343.7	329.8	322.8	327.0	332.6	332.6
55°	5639.9	3804.4	585.8	368.8	342.3	335.4	320.1	306.1	308.9	308.9	307.5
57.5°	6477.6	4443.1	673.5	359.0	334.0	324.2	304.7	288.0	285.3	286.7	288.0
60°	6853.3	4612.9	715.2	356.2	334.0	310.3	283.9	267.2	263.0	260.2	260.2
62.5°	6787.9	4319.3	630.4	343.7	342.3	299.2	264.4	246.3	240.7	235.2	236.6
65°	6392.7	3900.4	496.8	327.0	343.7	292.2	244.9	226.8	217.1	210.1	208.7
67.5°	5670.5	3329.9	393.8	314.5	329.8	279.7	228.2	207.3	199.0	192.0	189.2
70°	4436.2	2610.5	342.3	297.8	296.4	249.1	208.7	190.6	178.1	169.8	169.8
72.5°	2876.3	1650.3	293.6	264.4	256.0	208.7	180.9	169.8	160.0	153.1	153.1
75°	1302.5	766.7	236.6	221.3	208.7	167.0	153.1	147.5	139.2	132.2	132.2
77.5°	467.6	327.0	176.7	173.9	155.9	129.4	123.8	119.7	114.1	107.1	107.1
80°	261.6	207.3	132.2	126.6	108.5	96.0	89.1	89.1	86.3	82.1	80.7
82.5°	165.6	135.0	97.4	84.9	71.0	64.0	61.2	59.8	58.4	52.9	51.5
85°	104.4	91.8	64.0	50.1	41.7	32.0	30.6	29.2	26.4	23.7	23.7
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)