

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: P480263

Luminaire Tested: **IFLD-S-SA3B-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480263
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

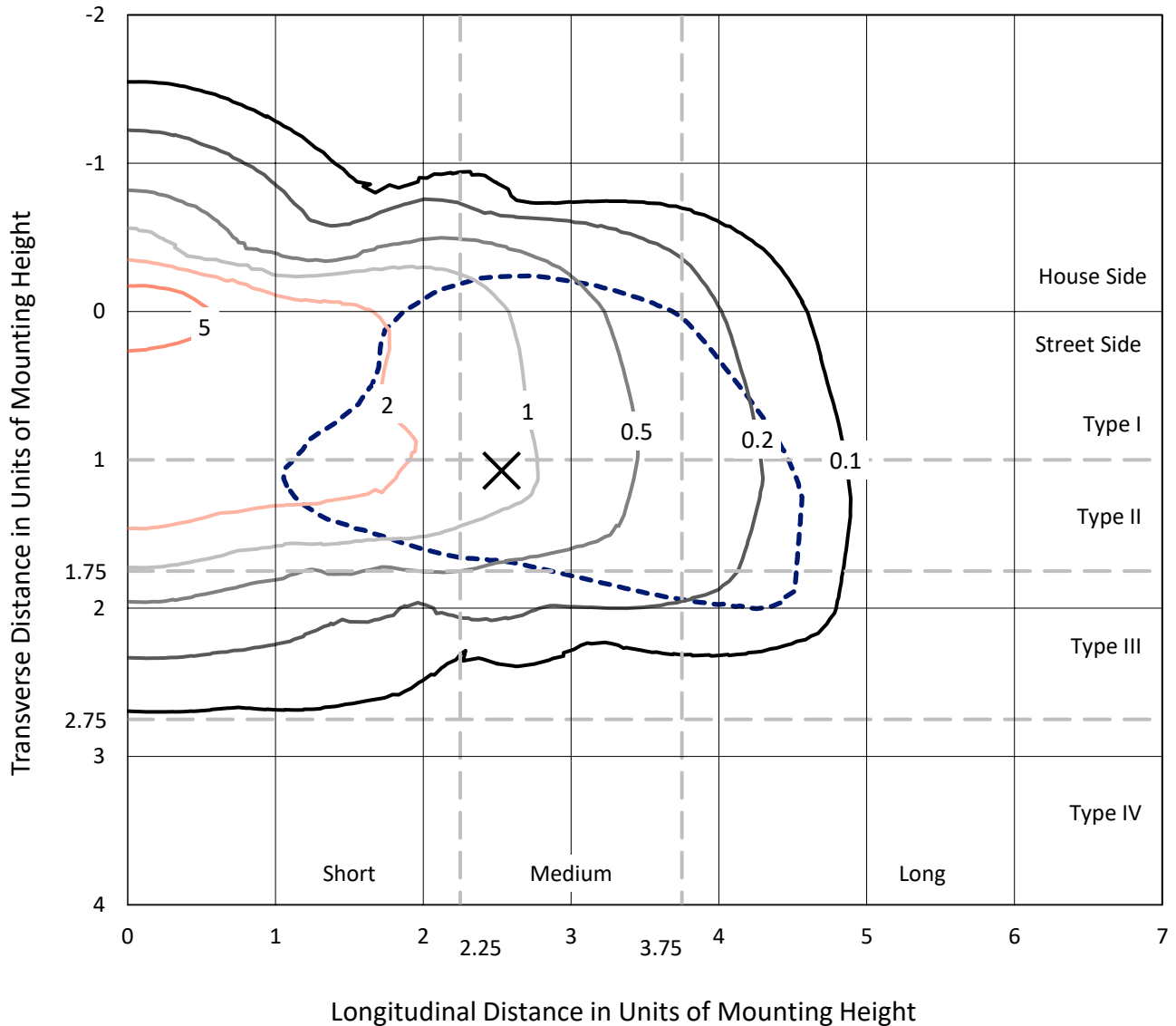
Lumens per Lamp: N/A
Luminaire Lumens: 13481 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

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

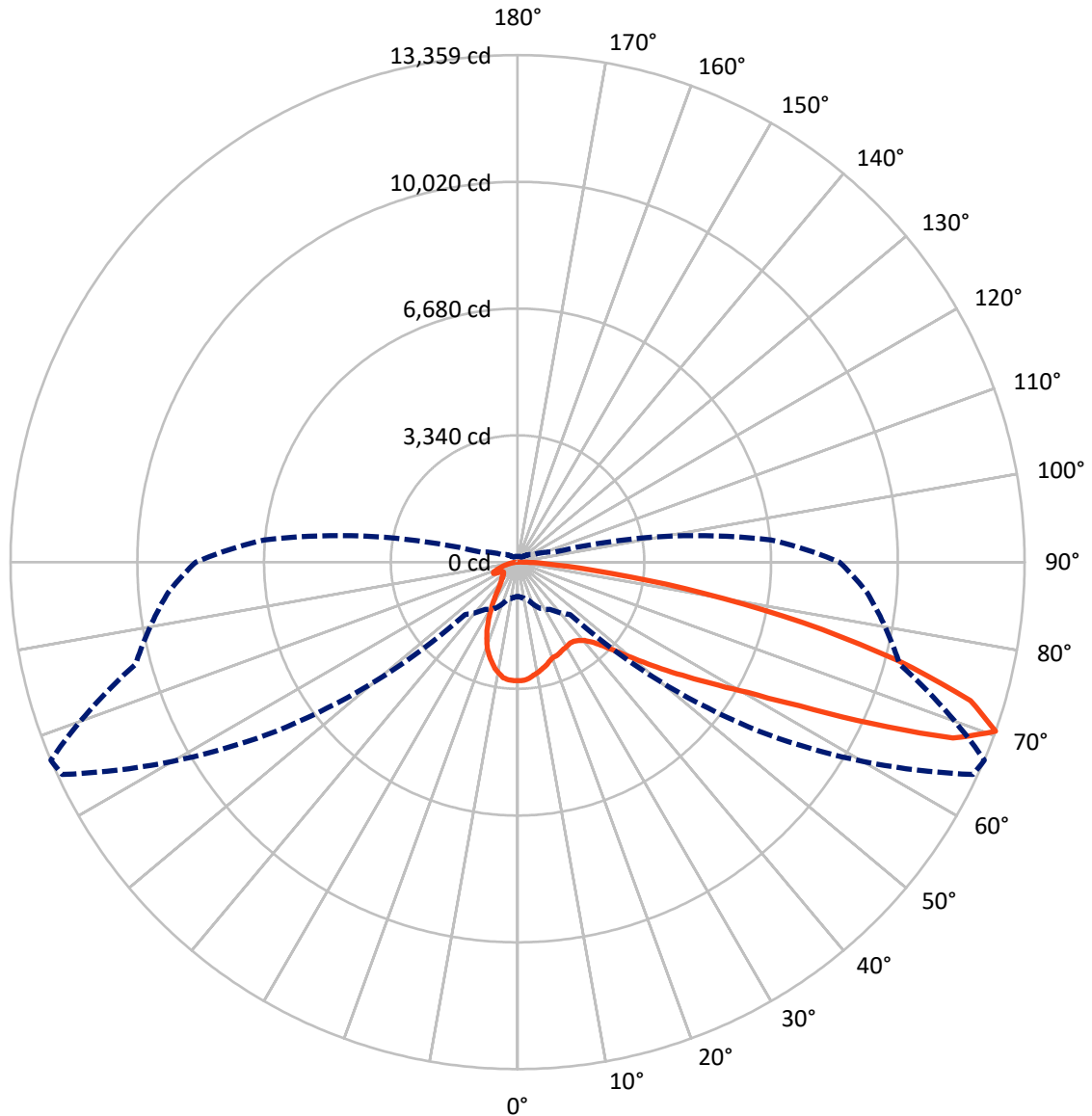
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 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	2625.6	0.0	2625.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10855.5	0.0	10855.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	13481.0	0.0	13481.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	2.0
10°-20°	652.1	4.8
20°-30°	880.7	6.5
30°-40°	1178.4	8.7
40°-50°	1732.8	12.9
50°-60°	2701.1	20.0
60°-70°	3327.3	24.7
70°-80°	2351.0	17.4
80°-90°	385.3	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°	13481.0	100.0
0°-180°	13481.0	100.0

Coefficient of Utilization

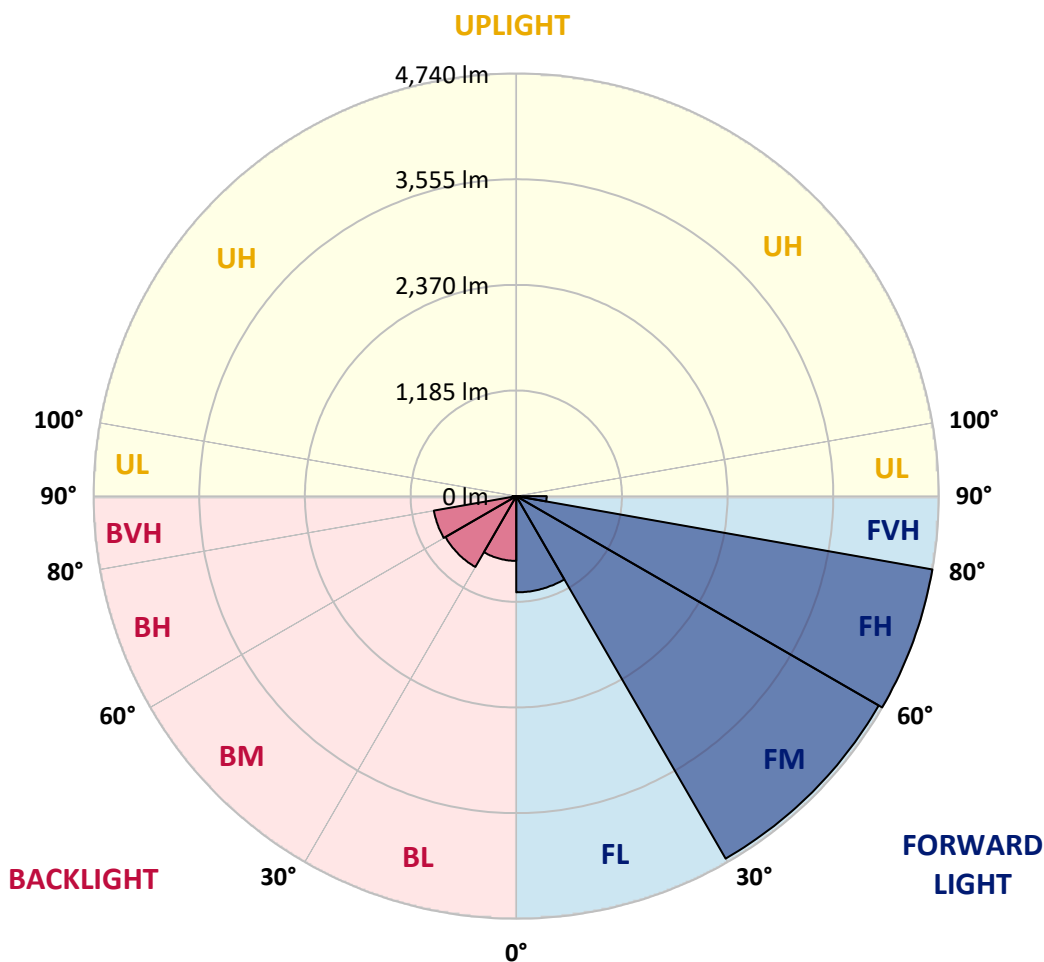


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.1	8.0			
FM (30°-60°)	4695.1	34.8			
FH (60°-80°)	4740.4	35.2			G2/5000
FVH (80°-90°)	340.9	2.5			G3/500
BL (0°-30°)	726.1	5.4	B2/1000		
BM (30°-60°)	917.2	6.8	B1/1000		
BH (60°-80°)	937.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	44.5	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°	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8
2.5°	2905.9	2938.7	2950.7	2968.6	3014.8	3049.2	3070.1	3093.9	3122.3	3146.2	3161.1
5°	2702.9	2720.8	2749.2	2768.6	2826.8	2919.3	2982.0	3083.5	3080.5	3117.8	3174.5
7.5°	2505.9	2523.8	2537.2	2576.1	2659.6	2743.2	2858.1	3022.3	3010.4	3096.9	3185.0
10°	2383.5	2370.1	2374.6	2440.2	2505.9	2599.9	2744.7	2911.9	2955.1	3089.5	3214.8
12.5°	2268.6	2253.7	2289.5	2331.3	2411.9	2497.0	2670.1	2820.8	2886.5	3062.6	3228.3
15°	2197.0	2186.5	2231.3	2249.2	2344.7	2446.2	2568.6	2752.2	2823.8	3029.8	3207.4
17.5°	2156.7	2165.6	2182.0	2220.8	2282.0	2368.6	2502.9	2705.9	2737.2	2989.5	3202.9
20°	2164.1	2174.6	2176.1	2192.5	2234.3	2301.4	2438.7	2656.6	2677.5	2982.0	3214.8
22.5°	2223.8	2208.9	2214.9	2204.4	2216.4	2268.6	2389.5	2591.0	2671.6	2919.3	3189.5
25°	2313.4	2292.5	2289.5	2253.7	2231.3	2246.2	2380.5	2574.6	2626.8	2899.9	3188.0
27.5°	2471.6	2440.2	2440.2	2386.5	2295.5	2271.6	2355.2	2547.7	2594.0	2882.0	3153.6
30°	2623.8	2623.8	2625.3	2549.2	2447.7	2329.8	2365.6	2537.2	2567.1	2828.3	3107.4
32.5°	2808.9	2804.4	2796.9	2759.6	2602.9	2426.8	2416.4	2523.8	2538.7	2810.4	3093.9
35°	2989.5	2977.5	3035.7	3002.9	2843.2	2616.4	2468.6	2529.8	2562.6	2783.5	3052.2
37.5°	3125.3	3132.8	3253.6	3274.5	3137.2	2831.3	2616.4	2589.5	2620.8	2822.3	3052.2
40°	3301.4	3331.3	3444.7	3514.8	3431.3	3114.8	2850.7	2689.5	2711.9	2908.9	3117.8
42.5°	3532.7	3558.1	3702.9	3793.9	3770.1	3476.0	3082.0	2898.4	2880.5	3053.7	3216.3
45°	3838.7	3843.2	3989.4	4114.8	4164.1	3853.6	3449.2	3162.6	3147.7	3302.9	3396.9
47.5°	4202.9	4198.4	4289.4	4423.8	4556.6	4304.4	3871.5	3564.1	3510.4	3659.6	3696.9
50°	4555.1	4535.7	4556.6	4728.2	4983.5	4868.5	4385.0	4055.1	4001.4	4083.5	4147.7
52.5°	4749.1	4773.0	4716.3	4943.2	5437.2	5535.7	5065.5	4641.7	4595.4	4635.7	4747.6
55°	4613.3	4662.6	4625.3	4840.2	5635.7	6349.1	5946.1	5320.8	5261.1	5246.1	5429.7
57.5°	4035.7	4125.3	4132.7	4473.0	5567.0	6978.9	7184.9	6122.2	6032.7	5880.4	6070.0
60°	3098.4	3188.0	3256.6	3659.6	4979.0	7355.0	8620.7	7262.5	6967.0	6573.0	6686.4
62.5°	2171.6	2232.8	2301.4	2549.2	3838.7	7134.1	9862.4	8868.4	8323.7	7302.8	7444.6
65°	1582.0	1629.8	1700.0	1846.2	2358.1	5902.8	10438.5	10775.8	10259.4	8231.1	8213.2
67.5°	1191.0	1220.9	1313.4	1547.7	1634.3	3646.2	9841.5	12790.7	12372.8	9262.4	8831.1
70°	901.5	926.8	1013.4	1334.3	1526.8	1955.2	7764.0	13240.0	13359.4	10419.1	9246.0
72.5°	620.9	649.2	746.2	1111.9	1453.7	1550.7	4873.0	12028.0	12480.3	10895.2	8801.3
75°	380.6	400.0	456.7	843.3	1443.2	1516.4	2682.0	9856.5	10335.6	10066.9	7699.8
77.5°	268.6	267.2	277.6	494.0	1250.7	1525.3	1653.7	7222.2	7687.9	7419.2	5225.2
80°	195.5	197.0	207.5	295.5	849.2	1550.7	1303.0	4837.2	4976.0	3868.6	2061.1
82.5°	117.9	123.9	149.2	200.0	510.4	1400.0	1204.4	2688.0	2514.9	1241.8	567.1
85°	62.7	62.7	88.1	126.9	271.6	1044.7	1159.7	1279.1	1071.6	385.1	210.4
87.5°	14.9	14.9	25.4	50.7	109.0	500.0	791.0	508.9	407.5	129.8	86.6
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°	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8	3120.8
2.5°	3155.1	3137.2	3159.6	3114.8	3079.0	3080.5	3025.3	3022.3	3014.8	2976.0	2989.5
5°	3191.0	3176.0	3150.7	3101.4	3022.3	2943.2	2895.4	2834.3	2808.9	2795.4	2801.4
7.5°	3225.3	3198.4	3125.3	3056.6	2934.3	2785.0	2698.4	2616.4	2511.9	2499.9	2479.0
10°	3234.2	3177.5	3083.5	2937.2	2774.6	2608.9	2411.9	2259.6	2179.0	2116.4	2092.5
12.5°	3220.8	3196.9	3016.3	2828.3	2582.0	2322.3	2092.5	1877.6	1728.3	1650.7	1629.8
15°	3219.3	3177.5	2941.7	2662.6	2347.7	2008.9	1682.0	1423.8	1267.1	1203.0	1203.0
17.5°	3220.8	3120.8	2853.7	2495.5	2071.6	1613.4	1253.7	1041.8	955.2	946.2	953.7
20°	3191.0	3079.0	2761.1	2298.4	1725.3	1211.9	910.4	823.9	823.9	835.8	840.3
22.5°	3164.1	3016.3	2614.9	2055.2	1373.1	877.6	740.3	714.9	743.3	764.2	773.1
25°	3126.8	2964.1	2465.6	1802.9	1044.7	707.4	643.3	649.2	676.1	713.4	710.4
27.5°	3073.1	2873.1	2288.0	1510.4	777.6	610.4	594.0	597.0	625.4	641.8	638.8
30°	3011.9	2780.5	2123.8	1219.4	616.4	559.7	558.2	565.7	570.1	579.1	577.6
32.5°	2934.3	2658.1	1949.2	947.7	555.2	531.3	525.4	520.9	525.4	523.9	519.4
35°	2879.0	2592.5	1771.6	722.4	520.9	506.0	501.5	494.0	488.0	479.1	477.6
37.5°	2864.1	2526.8	1585.0	589.5	494.0	486.6	471.6	458.2	450.7	446.3	443.3
40°	2855.1	2483.5	1402.9	517.9	471.6	464.2	446.3	428.3	420.9	416.4	417.9
42.5°	2886.5	2459.6	1217.9	482.1	452.2	438.8	419.4	398.5	397.0	394.0	398.5
45°	2996.9	2489.5	1046.2	456.7	432.8	410.4	385.1	374.6	373.1	370.1	373.1
47.5°	3247.7	2564.1	900.0	440.3	411.9	392.5	365.7	350.7	349.2	347.8	347.8
50°	3593.9	2794.0	777.6	420.9	398.5	371.6	346.3	329.8	326.9	320.9	320.9
52.5°	4137.2	3180.5	704.5	410.4	374.6	352.2	325.4	307.5	300.0	294.0	294.0
55°	4749.1	3659.6	691.0	392.5	349.2	328.3	304.5	286.6	279.1	271.6	268.6
57.5°	5446.1	4293.9	786.5	380.6	331.3	304.5	277.6	261.2	255.2	247.8	244.8
60°	6095.4	4926.7	1083.6	362.7	314.9	282.1	255.2	238.8	231.3	223.9	223.9
62.5°	6846.1	5710.3	1586.5	362.7	300.0	258.2	231.3	219.4	214.9	207.5	206.0
65°	7734.1	6520.7	1953.7	385.1	295.5	237.3	208.9	197.0	192.5	188.1	186.6
67.5°	8410.2	6986.4	1680.6	444.8	314.9	219.4	186.6	179.1	176.1	171.6	168.7
70°	8481.9	6702.8	1013.4	480.6	334.3	201.5	167.2	159.7	159.7	155.2	152.2
72.5°	7838.6	5947.6	682.1	428.3	303.0	180.6	147.8	141.8	138.8	135.8	134.3
75°	6559.5	5044.6	538.8	341.8	232.8	149.2	128.4	122.4	117.9	116.4	113.4
77.5°	4405.9	3279.0	398.5	267.2	171.6	120.9	107.5	101.5	97.0	95.5	91.0
80°	1692.5	1249.2	256.7	194.0	120.9	95.5	85.1	79.1	76.1	71.6	68.7
82.5°	498.5	404.5	143.3	119.4	77.6	65.7	61.2	56.7	52.2	47.8	46.3
85°	206.0	185.1	88.1	62.7	47.8	38.8	35.8	31.3	26.9	23.9	20.9
87.5°	95.5	79.1	40.3	23.9	16.4	9.0	4.5	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)