

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: P480614

Luminaire Tested: **IFLD-S-SA3B-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480614
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

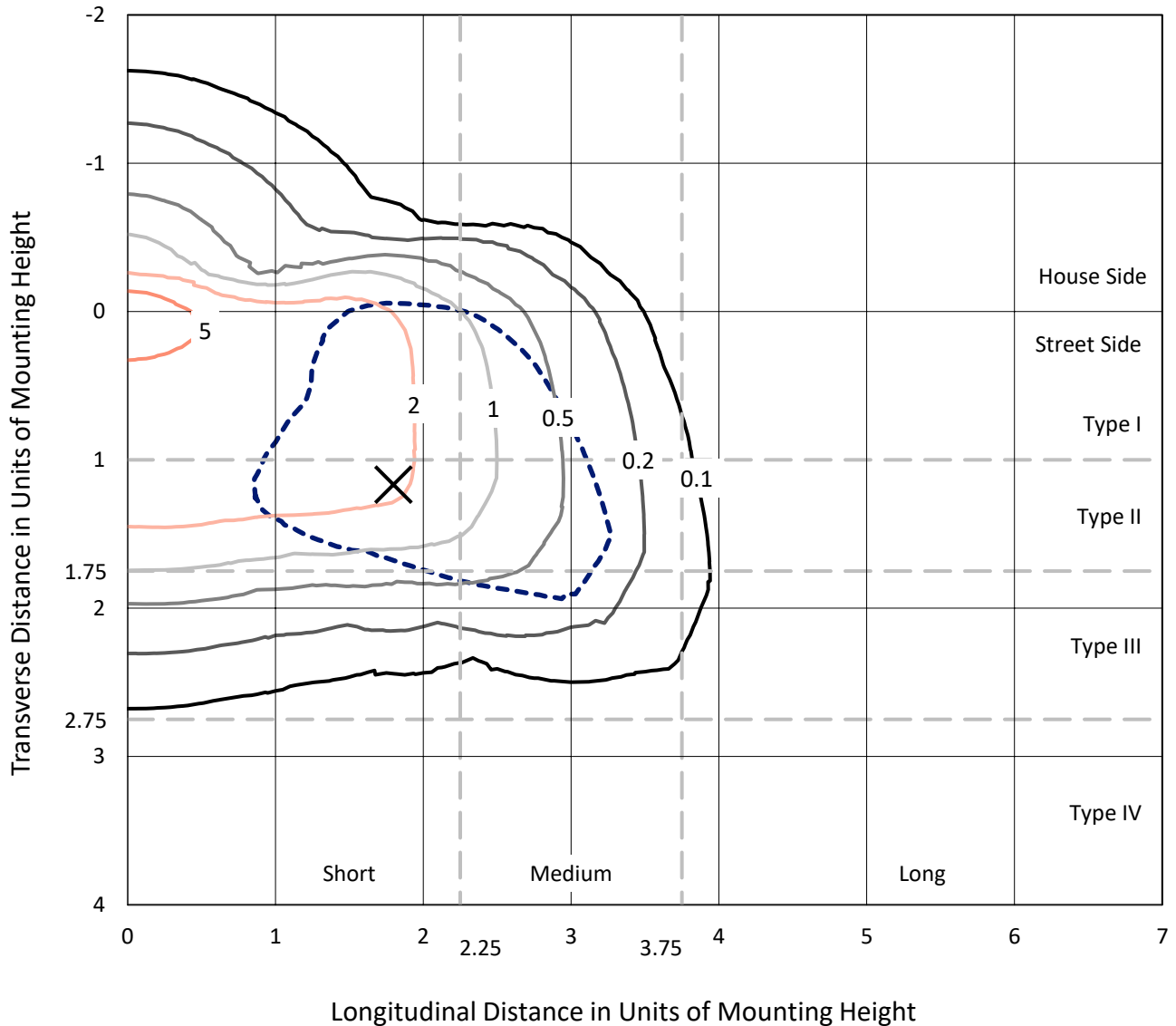
Lumens per Lamp: N/A
Luminaire Lumens: 12342.3 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

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

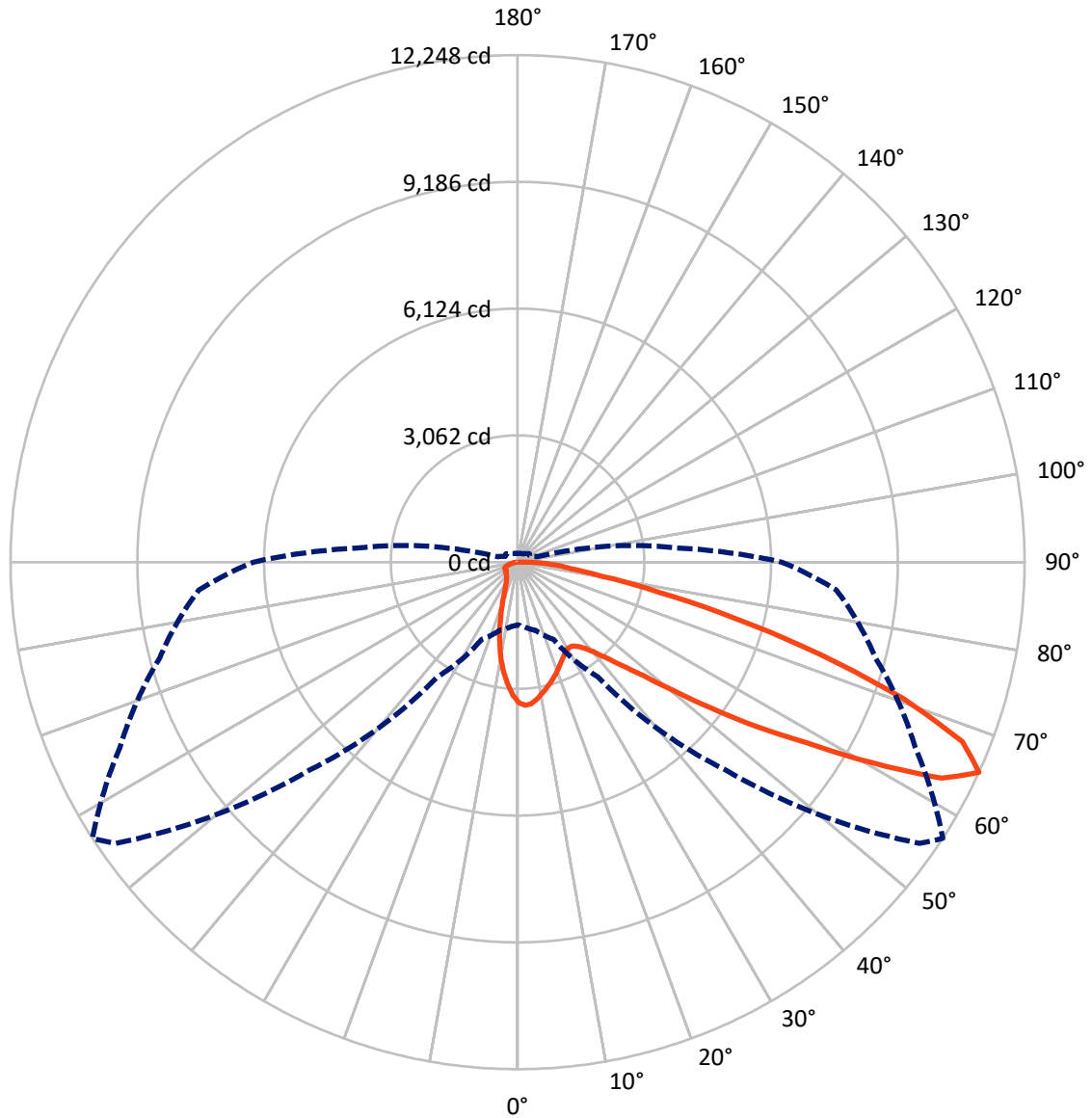
× Max cd
 - - - 1/2 Max cd



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	1892.8	0.0	1892.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10449.5	0.0	10449.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	12342.3	0.0	12342.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.2	2.3
10°-20°	611.7	5.0
20°-30°	790.9	6.4
30°-40°	1064.2	8.6
40°-50°	1697.0	13.7
50°-60°	2997.2	24.3
60°-70°	3297.4	26.7
70°-80°	1379.3	11.2
80°-90°	220.4	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°	12342.3	100.0
0°-180°	12342.3	100.0

Coefficient of Utilization



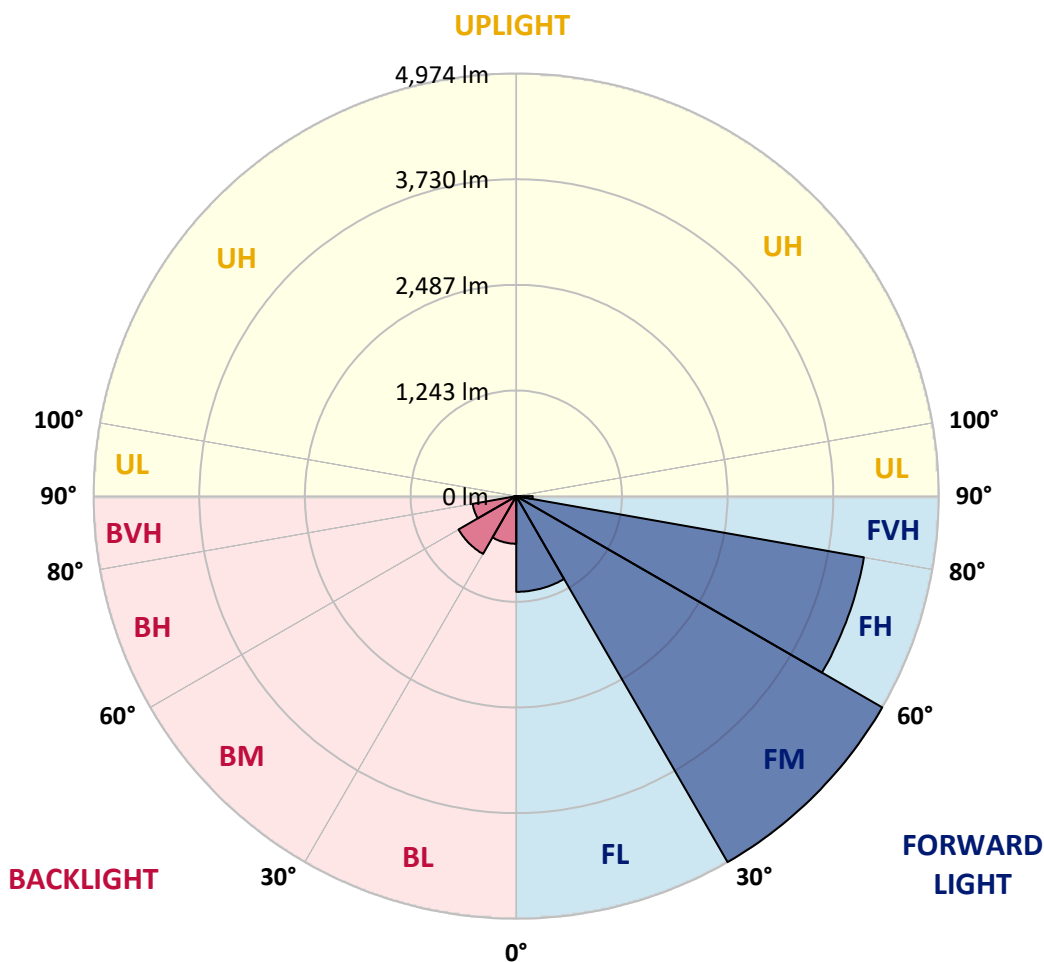
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1126.2	9.1			
FM (30°-60°)	4973.9	40.3			
FH (60°-80°)	4154.8	33.7			G2/5000
FVH (80°-90°)	194.6	1.6			G2/225
BL (0°-30°)	560.6	4.5	B2/1000		
BM (30°-60°)	784.5	6.4	B1/1000		
BH (60°-80°)	521.9	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°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
2.5°	3485.6	3491.2	3491.2	3502.3	3464.8	3482.8	3480.1	3463.4	3469.0	3439.8	3410.6
5°	3387.0	3382.9	3405.1	3407.9	3437.0	3445.3	3452.3	3441.2	3444.0	3380.1	3352.3
7.5°	3134.3	3132.9	3170.4	3202.3	3263.4	3320.4	3357.9	3346.7	3362.0	3321.8	3256.5
10°	2834.3	2866.3	2905.1	2937.1	3049.6	3121.8	3219.0	3228.7	3287.0	3277.3	3159.3
12.5°	2609.4	2623.2	2652.4	2744.1	2846.8	2966.2	3105.1	3117.6	3174.6	3202.3	3099.6
15°	2424.7	2437.2	2474.6	2542.7	2658.0	2799.6	2976.0	3007.9	3121.8	3131.5	3021.8
17.5°	2290.0	2299.7	2324.7	2392.7	2487.1	2669.1	2835.7	2892.6	3042.6	3089.8	2941.3
20°	2237.2	2216.4	2230.2	2273.3	2367.7	2508.0	2723.2	2773.2	2964.9	3057.9	2864.9
22.5°	2213.6	2195.5	2203.9	2201.1	2276.1	2376.1	2602.4	2655.2	2891.3	3020.4	2796.8
25°	2231.6	2231.6	2223.3	2216.4	2224.7	2290.0	2471.9	2553.8	2792.7	2988.5	2727.4
27.5°	2328.8	2291.3	2295.5	2266.3	2258.0	2258.0	2413.5	2462.2	2760.7	2970.4	2670.5
30°	2391.3	2409.4	2410.8	2367.7	2324.7	2246.9	2359.4	2406.6	2734.3	2992.6	2637.1
32.5°	2551.0	2542.7	2519.1	2510.8	2446.9	2359.4	2385.8	2417.7	2719.1	3042.6	2646.8
35°	2710.7	2706.6	2708.0	2703.8	2637.1	2508.0	2456.6	2499.6	2746.8	3130.1	2680.2
37.5°	2876.0	2887.1	2934.3	2934.3	2863.5	2723.2	2655.2	2642.7	2848.2	3273.1	2759.3
40°	3041.2	3069.0	3128.7	3223.2	3123.2	2992.6	2882.9	2863.5	2970.4	3464.8	2949.6
42.5°	3199.5	3245.4	3363.4	3503.7	3470.3	3339.8	3194.0	3171.8	3221.8	3749.5	3214.8
45°	3402.3	3441.2	3627.3	3842.5	3888.3	3773.1	3602.3	3584.2	3581.4	4166.1	3580.0
47.5°	3710.6	3752.2	3938.3	4155.0	4296.6	4314.7	4123.0	4103.6	4036.9	4728.5	4114.7
50°	4096.6	4164.7	4321.6	4574.4	4779.9	4972.9	4918.7	4861.8	4731.3	5382.6	4792.4
52.5°	4378.5	4461.9	4674.3	4997.9	5360.4	5667.3	5861.7	5861.7	5561.7	6100.5	5607.5
55°	4453.5	4503.5	4771.5	5239.5	5860.3	6636.6	7043.4	7012.9	6550.5	6856.0	6556.0
57.5°	4155.0	4220.2	4545.2	5035.4	6122.7	7543.4	8216.9	8223.8	7630.9	7733.6	7492.0
60°	3332.9	3353.7	3737.0	4392.4	5870.0	8273.8	9819.4	9845.8	8859.9	8515.5	7968.3
62.5°	2303.8	2370.5	2659.3	3234.3	4863.2	8191.9	11365.1	11495.6	9844.4	8927.9	8043.3
65°	1516.5	1556.7	1710.9	2060.8	3385.6	7100.4	11845.5	12248.3	10597.1	8951.5	7729.5
67.5°	1099.8	1106.8	1152.6	1333.1	2034.4	5106.2	11024.8	11592.8	10879.0	8754.3	6993.5
70°	888.8	894.3	911.0	1026.2	1313.7	3195.4	8991.8	9881.9	10033.3	7819.7	5632.5
72.5°	722.1	729.1	749.9	858.2	1083.2	1777.5	6575.5	7660.0	8161.3	5785.3	3743.9
75°	568.0	573.5	623.5	730.5	1017.9	1220.7	4361.9	5424.2	5492.3	3381.5	1752.5
77.5°	388.8	398.6	459.7	619.4	958.2	1067.9	2719.1	3474.5	3117.6	1323.4	602.7
80°	247.2	261.1	297.2	469.4	847.1	1019.3	1691.4	2074.7	1365.1	452.7	290.2
82.5°	145.8	159.7	195.8	304.1	665.2	945.7	1191.5	1298.4	640.2	231.9	175.0
85°	80.5	90.3	118.0	183.3	390.2	840.2	954.0	931.8	366.6	123.6	109.7
87.5°	26.4	30.6	43.0	73.6	161.1	395.8	572.1	537.4	190.3	56.9	43.0
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°	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0	3394.0
2.5°	3391.2	3387.0	3324.5	3277.3	3196.8	3130.1	3103.7	3067.6	3066.2	3039.8	3032.9
5°	3309.3	3266.2	3170.4	3078.7	2935.7	2839.9	2752.4	2691.3	2666.3	2612.1	2599.6
7.5°	3203.7	3146.8	2999.6	2827.4	2659.3	2509.4	2373.3	2237.2	2160.8	2134.4	2105.3
10°	3094.0	2994.0	2776.0	2583.0	2348.3	2117.8	1903.9	1712.3	1608.1	1534.5	1502.6
12.5°	3006.5	2873.2	2595.5	2306.6	1996.9	1688.6	1440.1	1238.7	1120.7	1065.1	1040.1
15°	2907.9	2731.6	2398.3	2033.0	1647.0	1297.0	1054.0	895.7	848.5	822.1	817.9
17.5°	2803.8	2599.6	2184.4	1763.6	1305.4	976.3	819.3	755.4	734.6	723.5	718.0
20°	2706.6	2481.6	1965.0	1463.7	1022.1	783.2	709.6	676.3	674.9	680.5	679.1
22.5°	2569.1	2327.4	1748.4	1185.9	816.6	681.8	634.6	626.3	634.6	641.6	644.4
25°	2491.3	2201.1	1506.7	941.5	674.9	605.5	590.2	587.4	599.9	608.2	606.9
27.5°	2410.8	2070.5	1281.8	754.1	591.6	551.3	548.5	551.3	563.8	576.3	574.9
30°	2348.3	1966.4	1070.7	630.5	527.7	512.4	509.7	512.4	519.4	520.8	520.8
32.5°	2296.9	1842.8	891.5	547.1	488.8	476.3	479.1	477.7	479.1	480.5	481.9
35°	2266.3	1769.2	744.3	495.8	456.9	447.2	445.8	441.6	443.0	444.4	443.0
37.5°	2331.6	1733.1	627.7	459.7	434.7	426.3	423.6	420.8	416.6	416.6	416.6
40°	2430.2	1713.6	556.9	436.0	418.0	408.3	399.9	397.2	397.2	398.6	399.9
42.5°	2626.0	1745.6	508.3	418.0	397.2	386.1	377.7	379.1	383.3	387.4	384.7
45°	2909.3	1842.8	486.0	404.1	384.7	369.4	363.8	362.4	366.6	373.6	379.1
47.5°	3280.1	1994.2	477.7	391.6	376.3	355.5	348.6	352.7	358.3	368.0	363.8
50°	3887.0	2334.4	484.7	380.5	363.8	348.6	340.2	336.1	340.2	347.2	350.0
52.5°	4679.9	2952.4	511.0	374.9	355.5	343.0	329.1	322.2	326.3	331.9	331.9
55°	5628.4	3796.7	584.6	368.0	341.6	334.7	319.4	305.5	308.3	308.3	306.9
57.5°	6464.4	4434.1	672.1	358.3	333.3	323.6	304.1	287.5	284.7	286.1	287.5
60°	6839.3	4603.5	713.8	355.5	333.3	309.7	283.3	266.6	262.5	259.7	259.7
62.5°	6774.0	4310.5	629.1	343.0	341.6	298.6	263.9	245.8	240.2	234.7	236.1
65°	6379.7	3892.5	495.8	326.3	343.0	291.6	244.4	226.4	216.6	209.7	208.3
67.5°	5658.9	3323.1	393.0	313.8	329.1	279.1	227.7	206.9	198.6	191.6	188.9
70°	4427.2	2605.2	341.6	297.2	295.8	248.6	208.3	190.3	177.8	169.4	169.4
72.5°	2870.4	1647.0	293.0	263.9	255.5	208.3	180.5	169.4	159.7	152.8	152.8
75°	1299.8	765.2	236.1	220.8	208.3	166.6	152.8	147.2	138.9	131.9	131.9
77.5°	466.6	326.3	176.4	173.6	155.5	129.1	123.6	119.4	113.9	106.9	106.9
80°	261.1	206.9	131.9	126.4	108.3	95.8	88.9	88.9	86.1	81.9	80.5
82.5°	165.3	134.7	97.2	84.7	70.8	63.9	61.1	59.7	58.3	52.8	51.4
85°	104.2	91.7	63.9	50.0	41.7	31.9	30.6	29.2	26.4	23.6	23.6
87.5°	47.2	52.8	25.0	15.3	11.1	6.9	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)