

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: P480845

Luminaire Tested: **IFLD-S-SA2D-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480845  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-735-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

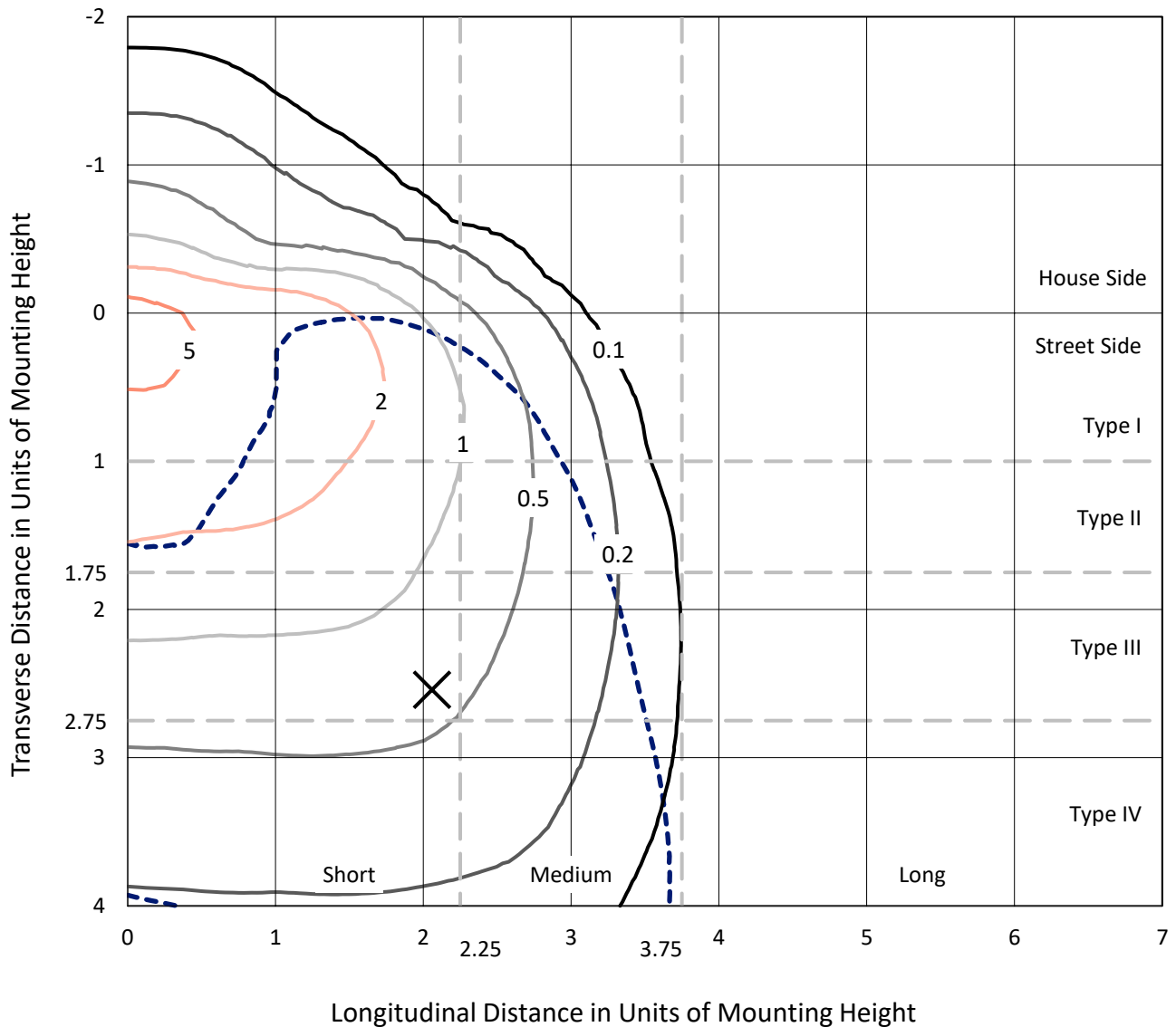
Lumens per Lamp: N/A  
Luminaire Lumens: 14920.6 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

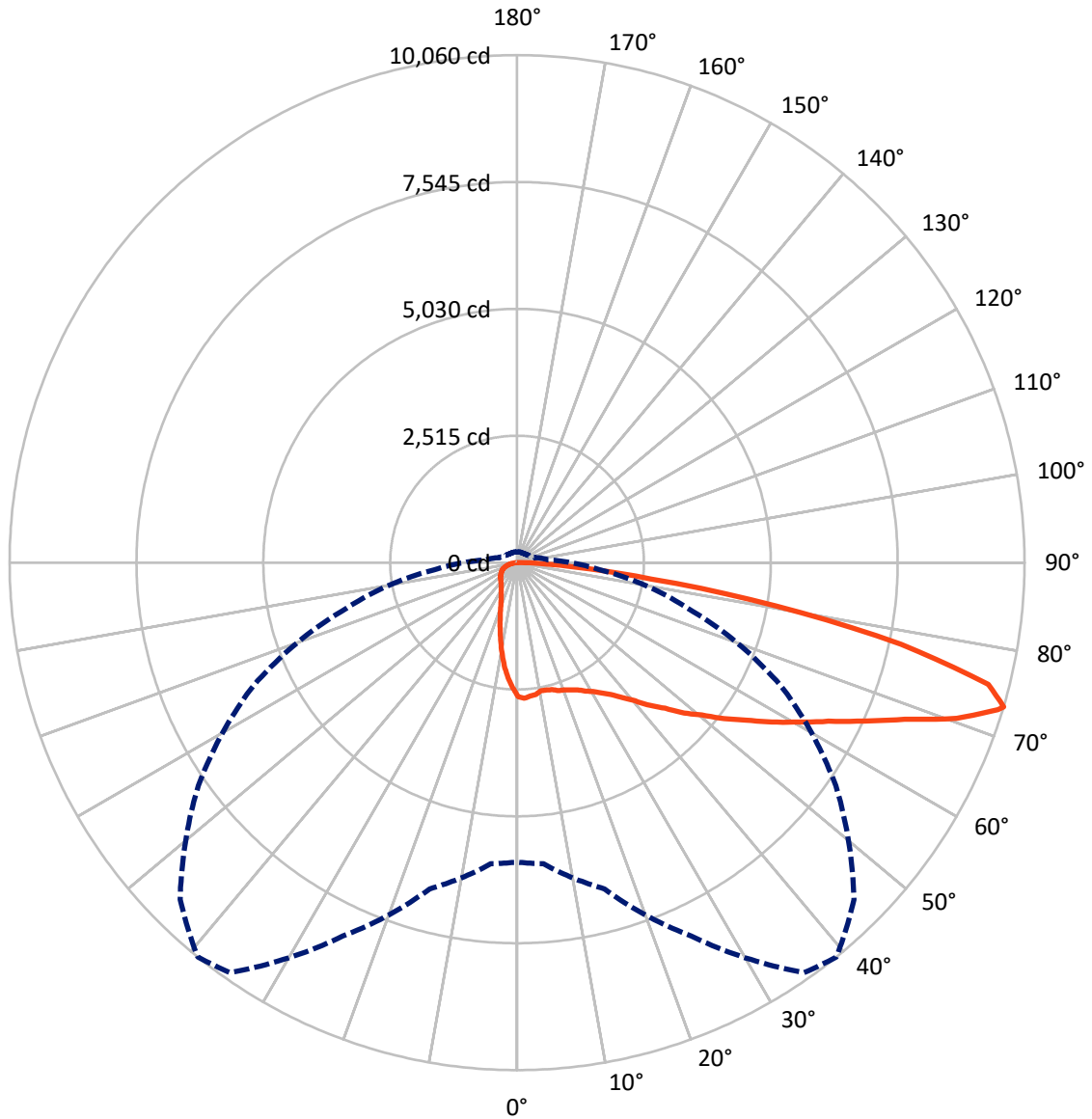
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2097.4	0.0	2097.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	12823.1	0.0	12823.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	14920.6	0.0	14920.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.6	1.5
10°-20°	586.1	3.9
20°-30°	895.6	6.0
30°-40°	1305.9	8.8
40°-50°	1973.3	13.2
50°-60°	2857.5	19.2
60°-70°	3630.5	24.3
70°-80°	2943.1	19.7
80°-90°	498.0	3.3
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°	14920.6	100.0
0°-180°	14920.6	100.0

**Coefficient of Utilization**



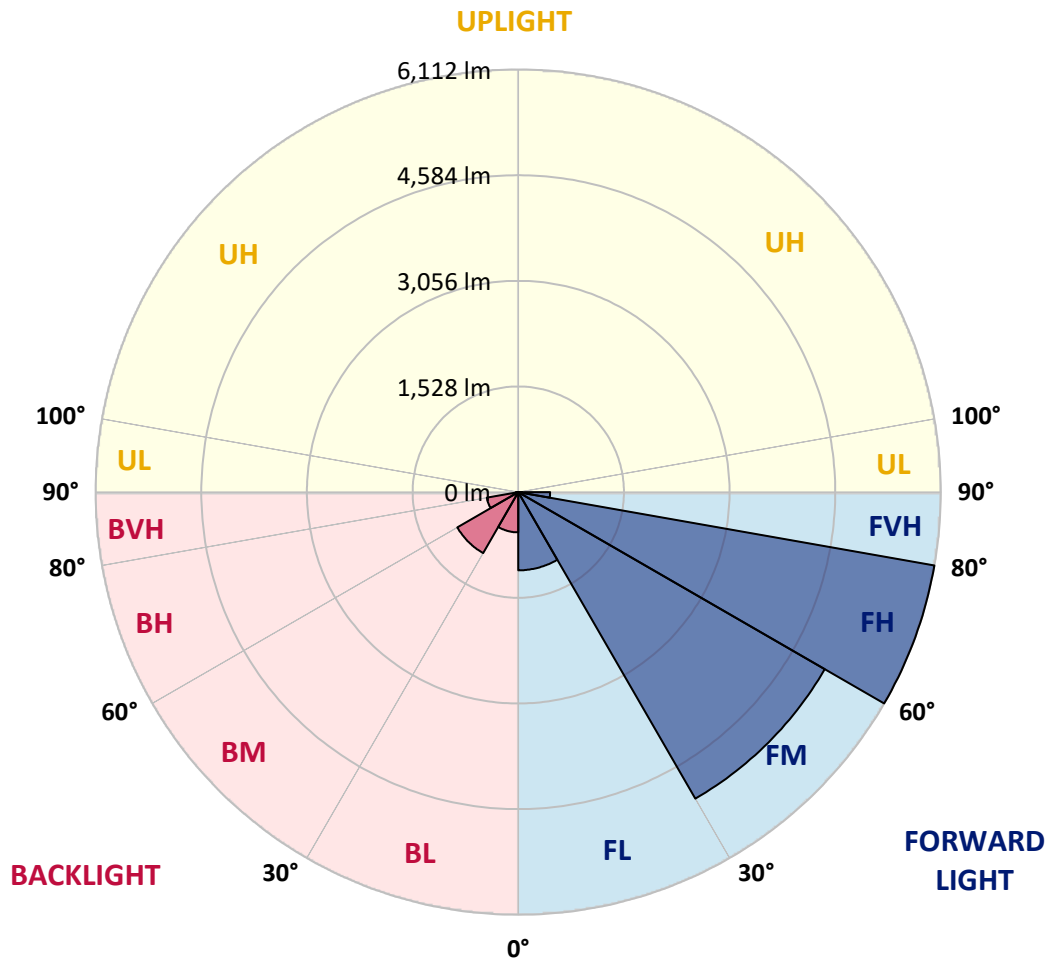
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.6	7.6			
FM (30°-60°)	5118.7	34.3			
FH (60°-80°)	6112.4	41.0			G3/7500
FVH (80°-90°)	461.4	3.1			G3/500
BL (0°-30°)	581.7	3.9	B2/1000		
BM (30°-60°)	1017.9	6.8	B2/2500		
BH (60°-80°)	461.3	3.1	B1/500		G1/500
BVH (80°-90°)	36.5	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9
2.5°	2719.4	2691.0	2696.0	2686.0	2696.0	2692.7	2687.7	2662.6	2687.7	2662.6	2655.9
5°	2682.7	2682.7	2699.4	2674.3	2677.6	2661.0	2677.6	2659.3	2642.6	2600.9	2589.2
7.5°	2671.0	2669.3	2671.0	2635.9	2652.6	2642.6	2625.9	2605.9	2572.5	2545.8	2507.4
10°	2590.8	2607.5	2589.2	2599.2	2612.5	2582.5	2580.8	2575.8	2560.8	2525.7	2502.4
12.5°	2547.4	2575.8	2585.8	2577.5	2589.2	2592.5	2582.5	2575.8	2557.5	2534.1	2467.3
15°	2565.8	2532.4	2560.8	2615.9	2604.2	2612.5	2614.2	2607.5	2599.2	2555.8	2512.4
17.5°	2570.8	2550.8	2610.9	2622.6	2637.6	2667.6	2647.6	2645.9	2614.2	2584.2	2520.7
20°	2582.5	2574.1	2622.6	2684.3	2686.0	2691.0	2701.0	2676.0	2659.3	2607.5	2510.7
22.5°	2625.9	2654.3	2699.4	2726.1	2741.1	2744.4	2744.4	2694.3	2676.0	2634.2	2557.5
25°	2756.1	2726.1	2789.5	2821.2	2799.5	2794.5	2782.8	2737.7	2717.7	2681.0	2579.2
27.5°	2851.3	2849.6	2886.3	2929.7	2871.3	2883.0	2841.2	2827.9	2782.8	2762.8	2617.6
30°	2981.5	3018.2	3016.5	3029.9	2953.1	2966.4	2913.0	2888.0	2862.9	2874.6	2731.1
32.5°	3148.4	3135.1	3156.8	3146.7	3069.9	3081.6	3018.2	2979.8	2988.2	3023.2	2886.3
35°	3255.2	3241.9	3250.2	3250.2	3226.9	3213.5	3186.8	3136.7	3176.8	3241.9	3059.9
37.5°	3370.4	3387.1	3435.5	3425.5	3395.5	3395.5	3392.1	3357.1	3408.8	3569.1	3337.0
40°	3472.3	3517.3	3547.4	3567.4	3602.5	3602.5	3630.9	3610.8	3704.3	3961.4	3675.9
42.5°	3579.1	3580.8	3744.4	3759.4	3837.9	3871.2	3892.9	3909.6	4084.9	4372.0	4038.2
45°	3716.0	3724.3	3867.9	3983.1	4105.0	4116.6	4198.4	4253.5	4468.9	4821.1	4432.1
47.5°	3896.3	3886.3	4039.8	4223.5	4375.4	4455.5	4554.0	4614.1	4879.5	5308.6	4862.8
50°	4133.3	4103.3	4191.8	4480.6	4659.2	4747.7	4922.9	5023.1	5333.6	5774.3	5158.3
52.5°	4422.1	4372.0	4442.2	4757.7	4958.0	5136.6	5303.5	5415.4	5739.3	6134.9	5377.0
55°	4727.6	4624.1	4644.2	5051.5	5340.3	5508.9	5737.6	5854.4	6185.0	6458.7	5595.7
57.5°	5029.8	4964.7	4924.6	5333.6	5796.0	5957.9	6168.3	6320.2	6600.6	6745.9	5781.0
60°	5283.5	5266.8	5201.7	5771.0	6278.5	6417.0	6637.4	6730.9	6942.9	7011.3	5784.3
62.5°	5492.2	5435.4	5538.9	6123.2	6769.2	6926.2	7168.2	7176.6	7326.8	7176.6	5614.0
65°	5655.8	5659.1	5824.4	6548.9	7336.8	7568.9	7764.2	7742.5	7645.7	7078.1	5211.7
67.5°	5804.4	5867.8	6109.8	7016.3	8066.3	8285.0	8502.0	8214.9	7732.5	6617.3	4425.5
70°	5921.2	5984.6	6495.5	7585.6	8926.1	9246.6	9295.0	8401.9	7333.5	5605.7	3338.7
72.5°	5907.9	6023.0	6714.2	8039.6	9689.0	9966.1	9575.4	7876.0	6109.8	3908.0	1948.1
73°	5936.2	5993.0	6695.8	8166.5	9921.0	10059.5	9445.2	7710.8	5762.6	3505.7	1647.7
75°	5388.7	5580.7	6363.6	7959.5	9672.3	9647.2	8697.4	6425.4	4096.6	1841.3	798.0
77.5°	3986.4	4108.3	5014.8	6545.6	7939.5	7779.2	6560.6	4106.6	1944.8	682.8	430.7
80°	1948.1	2043.3	2657.6	3779.4	5191.7	5205.1	4071.6	2136.8	833.0	385.6	293.8
82.5°	973.2	1030.0	1277.1	1661.0	2554.1	2676.0	2065.0	1215.3	515.8	218.7	166.9
85°	636.0	676.1	786.3	813.0	1083.4	1143.5	961.6	948.2	335.5	118.5	135.2
87.5°	422.3	429.0	482.4	410.7	434.0	417.3	464.1	597.6	98.5	50.1	36.7
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°	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9	2655.9
2.5°	2647.6	2624.2	2599.2	2564.1	2539.1	2500.7	2465.6	2450.6	2447.3	2448.9	2432.3
5°	2579.2	2545.8	2495.7	2423.9	2382.2	2318.7	2265.3	2236.9	2206.9	2211.9	2198.5
7.5°	2484.0	2447.3	2370.5	2287.0	2183.5	2093.4	2043.3	1973.2	1933.1	1903.1	1919.8
10°	2454.0	2390.5	2275.3	2160.1	1999.9	1881.4	1766.2	1686.1	1631.0	1577.5	1600.9
12.5°	2438.9	2375.5	2215.2	2045.0	1838.0	1657.7	1495.7	1397.3	1318.8	1272.1	1290.4
15°	2425.6	2347.1	2158.5	1918.1	1686.1	1449.0	1267.0	1136.8	1061.7	1016.6	1021.6
17.5°	2443.9	2332.1	2075.0	1794.6	1519.1	1265.4	1063.4	928.2	851.4	823.0	816.3
20°	2425.6	2315.4	1993.2	1671.0	1352.2	1090.1	896.4	784.6	731.2	707.8	702.8
22.5°	2432.3	2275.3	1908.1	1534.1	1196.9	943.2	784.6	699.5	657.7	646.0	649.4
25°	2464.0	2252.0	1822.9	1383.9	1043.3	834.7	712.8	647.7	617.7	606.0	609.3
27.5°	2487.3	2272.0	1746.1	1242.0	913.1	737.9	652.7	609.3	589.3	580.9	579.3
30°	2545.8	2283.7	1671.0	1115.1	806.3	674.4	611.0	575.9	562.6	557.6	555.9
32.5°	2632.6	2305.4	1584.2	998.3	727.8	614.3	577.6	547.5	544.2	539.2	540.9
35°	2774.5	2380.5	1487.4	898.1	652.7	574.3	542.5	522.5	522.5	522.5	527.5
37.5°	2978.1	2485.7	1400.6	803.0	604.3	539.2	512.5	505.8	502.5	507.5	510.8
40°	3240.2	2612.5	1330.5	727.8	562.6	515.8	492.5	489.1	487.5	485.8	489.1
42.5°	3527.4	2774.5	1270.4	669.4	532.5	490.8	474.1	470.8	464.1	467.4	472.4
45°	3812.8	2974.8	1217.0	622.7	512.5	477.4	454.1	452.4	449.1	447.4	455.7
47.5°	4130.0	3171.8	1200.3	594.3	497.5	457.4	440.7	439.0	429.0	427.4	434.0
50°	4377.1	3317.0	1218.6	580.9	475.8	442.4	430.7	422.3	414.0	405.7	405.7
52.5°	4547.3	3417.2	1232.0	570.9	464.1	422.3	407.3	404.0	395.6	387.3	384.0
55°	4700.9	3477.3	1235.3	572.6	452.4	399.0	389.0	387.3	382.3	368.9	365.6
57.5°	4752.7	3452.2	1168.6	557.6	445.7	384.0	370.6	373.9	367.3	355.6	353.9
60°	4747.7	3278.6	1016.6	537.5	430.7	367.3	350.6	360.6	360.6	347.2	345.6
62.5°	4458.9	2878.0	831.3	499.1	414.0	350.6	332.2	347.2	352.2	343.9	342.2
65°	3859.6	2343.8	694.5	460.7	389.0	332.2	313.8	330.5	338.9	335.5	333.9
67.5°	3193.5	1792.9	577.6	410.7	357.2	307.2	292.1	303.8	308.8	310.5	312.2
70°	2257.0	1193.6	482.4	355.6	313.8	280.5	263.8	265.4	263.8	268.8	268.8
72.5°	1227.0	687.8	392.3	302.2	270.4	243.7	232.0	223.7	223.7	222.0	222.0
73°	1050.0	617.7	373.9	293.8	258.8	237.0	223.7	217.0	217.0	215.3	213.7
75°	589.3	452.4	320.5	252.1	223.7	207.0	197.0	187.0	185.3	185.3	185.3
77.5°	387.3	352.2	255.4	202.0	180.3	165.3	161.9	151.9	151.9	151.9	150.2
80°	290.5	277.1	197.0	153.6	138.6	126.9	123.5	116.9	115.2	108.5	110.2
82.5°	193.6	218.7	143.6	108.5	93.5	86.8	86.8	85.1	80.1	71.8	71.8
85°	153.6	178.6	103.5	66.8	55.1	46.7	48.4	46.7	45.1	36.7	35.1
87.5°	28.4	71.8	30.0	18.4	13.4	8.3	8.3	5.0	3.3	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)