

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: P480652

Luminaire Tested: **IFLD-S-SA3A-830-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

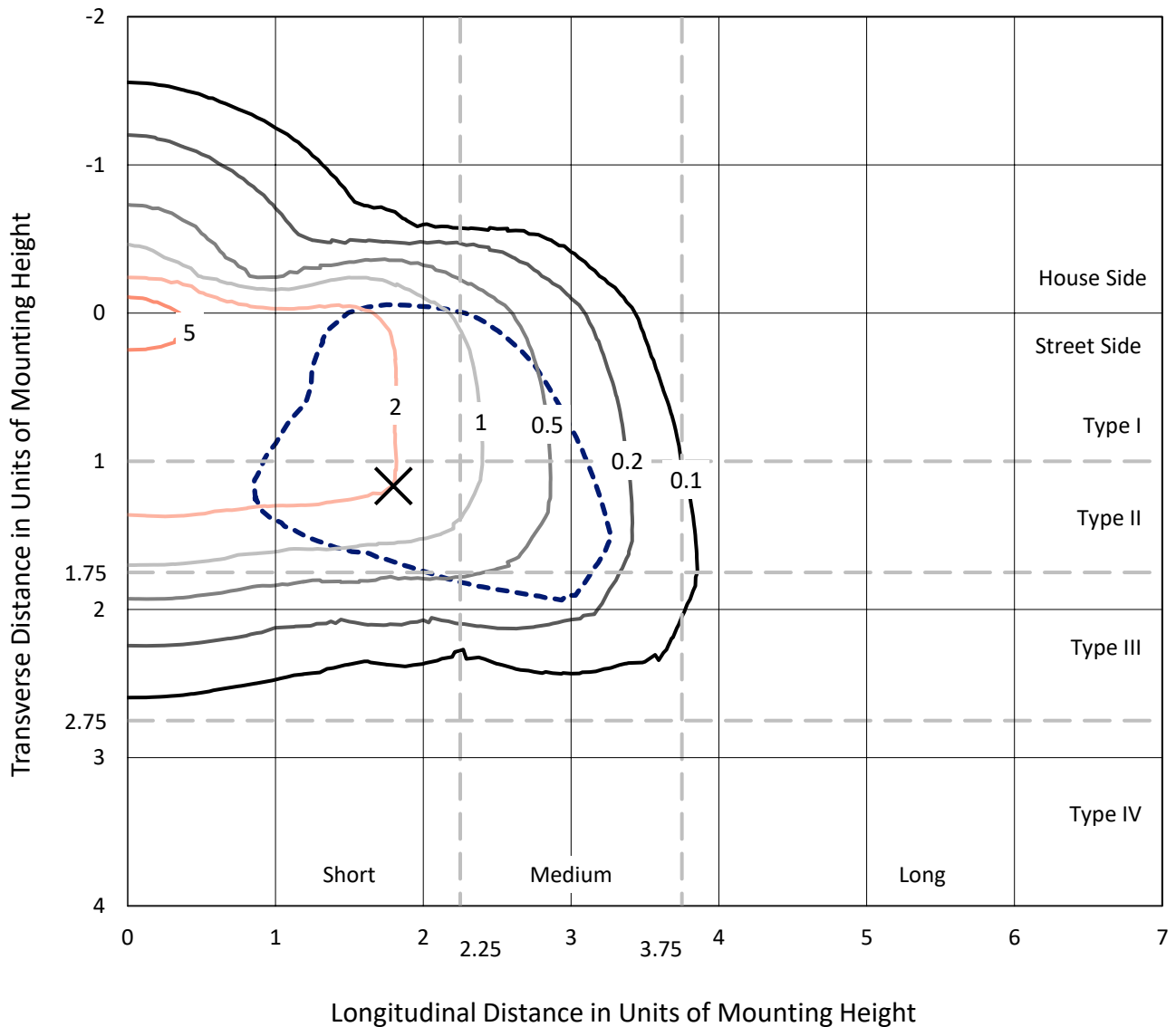
Lumens per Lamp: N/A
Luminaire Lumens: 10787.4 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

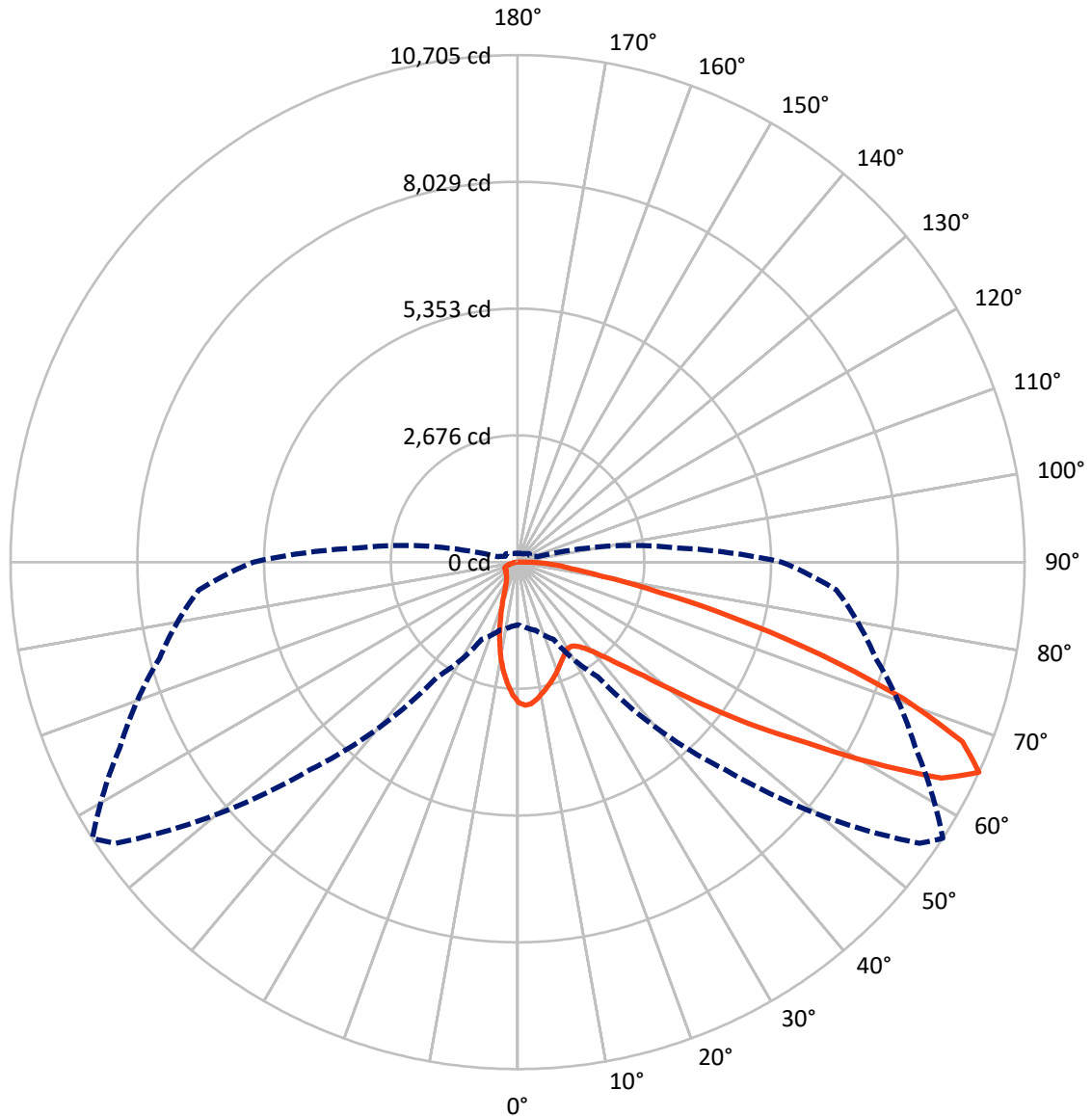
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 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	1654.3	0.0	1654.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9133.1	0.0	9133.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	10787.4	0.0	10787.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	2.3
10°-20°	534.6	5.0
20°-30°	691.2	6.4
30°-40°	930.1	8.6
40°-50°	1483.2	13.7
50°-60°	2619.6	24.3
60°-70°	2882.0	26.7
70°-80°	1205.6	11.2
80°-90°	192.7	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°	10787.4	100.0
0°-180°	10787.4	100.0

Coefficient of Utilization



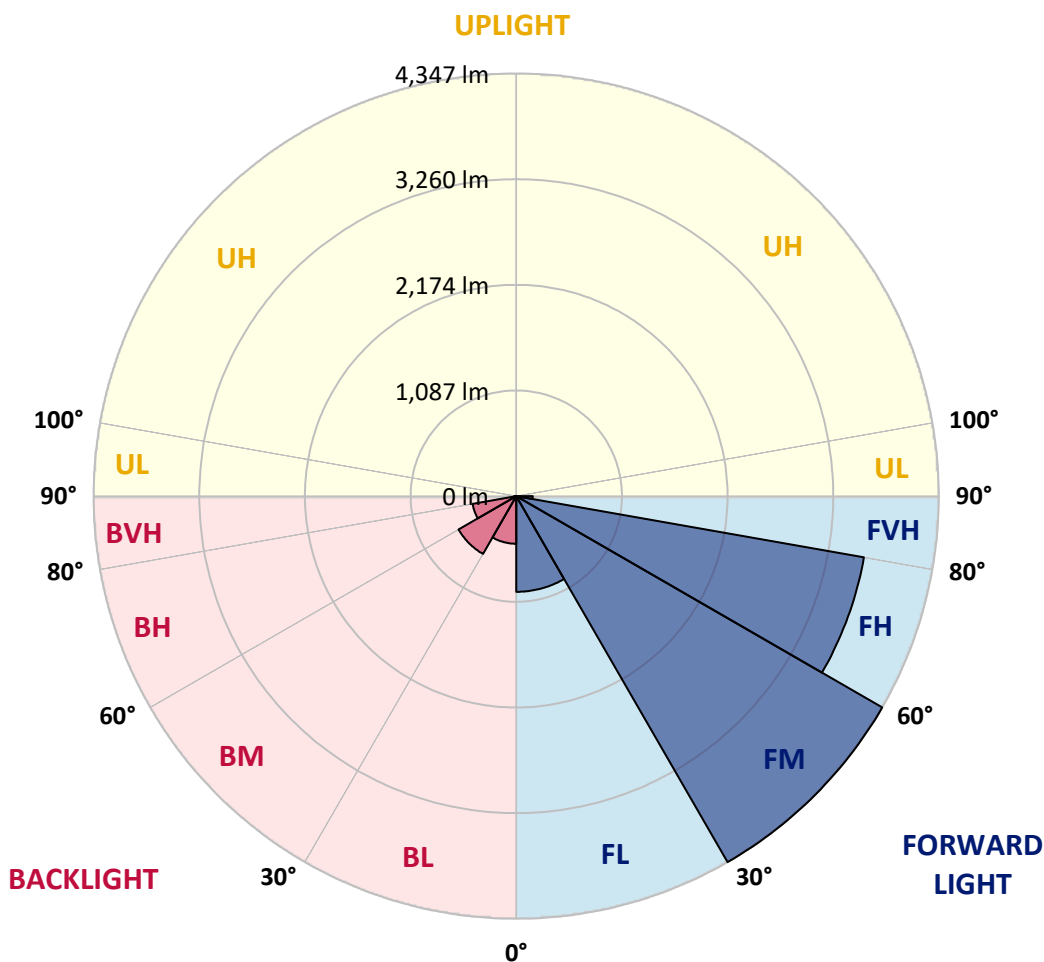
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.3	9.1			
FM (30°-60°)	4347.3	40.3			
FH (60°-80°)	3631.4	33.7			G2/5000
FVH (80°-90°)	170.1	1.6			G2/225
BL (0°-30°)	489.9	4.5	B1/500		
BM (30°-60°)	685.6	6.4	B1/1000		
BH (60°-80°)	456.2	4.2	B1/500		G1/500
BVH (80°-90°)	22.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4
2.5°	3046.5	3051.3	3051.3	3061.1	3028.3	3044.1	3041.6	3027.1	3031.9	3006.4	2980.9
5°	2960.3	2956.7	2976.1	2978.5	3004.0	3011.3	3017.4	3007.7	3010.1	2954.2	2930.0
7.5°	2739.4	2738.2	2771.0	2798.9	2852.3	2902.1	2934.8	2925.1	2938.5	2903.3	2846.2
10°	2477.2	2505.2	2539.1	2567.1	2665.4	2728.5	2813.5	2821.9	2872.9	2864.4	2761.3
12.5°	2280.6	2292.8	2318.2	2398.4	2488.2	2592.6	2713.9	2724.8	2774.6	2798.9	2709.1
15°	2119.2	2130.1	2162.9	2222.4	2323.1	2446.9	2601.0	2629.0	2728.5	2737.0	2641.1
17.5°	2001.5	2010.0	2031.8	2091.3	2173.8	2332.8	2478.5	2528.2	2659.3	2700.6	2570.7
20°	1955.3	1937.1	1949.3	1986.9	2069.4	2192.0	2380.1	2423.8	2591.3	2672.7	2503.9
22.5°	1934.7	1918.9	1926.2	1923.8	1989.3	2076.7	2274.6	2320.7	2527.0	2639.9	2444.5
25°	1950.5	1950.5	1943.2	1937.1	1944.4	2001.5	2160.5	2232.1	2440.8	2612.0	2383.8
27.5°	2035.4	2002.7	2006.3	1980.8	1973.5	1973.5	2109.5	2152.0	2412.9	2596.2	2334.0
30°	2090.1	2105.8	2107.1	2069.4	2031.8	1963.8	2062.1	2103.4	2389.9	2615.6	2304.9
32.5°	2229.6	2222.4	2201.7	2194.4	2138.6	2062.1	2085.2	2113.1	2376.5	2659.3	2313.4
35°	2369.2	2365.6	2366.8	2363.2	2304.9	2192.0	2147.1	2184.7	2400.8	2735.8	2342.5
37.5°	2513.7	2523.4	2564.6	2564.6	2502.7	2380.1	2320.7	2309.7	2489.4	2860.8	2411.7
40°	2658.1	2682.4	2734.6	2817.1	2729.7	2615.6	2519.7	2502.7	2596.2	3028.3	2578.0
42.5°	2796.5	2836.5	2939.7	3062.3	3033.1	2919.0	2791.6	2772.2	2815.9	3277.1	2809.8
45°	2973.7	3007.7	3170.3	3358.4	3398.5	3297.7	3148.4	3132.7	3130.2	3641.2	3129.0
47.5°	3243.1	3279.5	3442.2	3631.5	3755.3	3771.1	3603.6	3586.6	3528.3	4132.8	3596.3
50°	3580.5	3640.0	3777.2	3998.1	4177.7	4346.4	4299.1	4249.3	4135.2	4704.5	4188.6
52.5°	3826.9	3899.8	4085.5	4368.3	4685.0	4953.3	5123.2	5123.2	4861.0	5332.0	4901.1
55°	3892.5	3936.2	4170.4	4579.4	5122.0	5800.5	6156.1	6129.4	5725.2	5992.2	5730.1
57.5°	3631.5	3688.6	3972.6	4401.0	5351.4	6593.0	7181.7	7187.8	6669.5	6759.3	6548.1
60°	2913.0	2931.2	3266.2	3839.1	5130.5	7231.5	8582.4	8605.4	7743.7	7442.7	6964.4
62.5°	2013.6	2071.9	2324.3	2826.8	4250.5	7159.9	9933.3	10047.3	8604.2	7803.1	7030.0
65°	1325.4	1360.6	1495.3	1801.2	2959.1	6205.9	10353.2	10705.2	9262.1	7823.8	6755.7
67.5°	961.3	967.4	1007.4	1165.2	1778.1	4462.9	9635.9	10132.3	9508.4	7651.4	6112.4
70°	776.8	781.6	796.2	897.0	1148.2	2792.8	7859.0	8637.0	8769.3	6834.6	4922.9
72.5°	631.1	637.2	655.4	750.1	946.7	1553.6	5747.1	6695.0	7133.2	5056.4	3272.2
75°	496.4	501.3	545.0	638.4	889.7	1066.9	3812.4	4740.9	4800.3	2955.5	1531.7
77.5°	339.8	348.3	401.7	541.3	837.5	933.4	2376.5	3036.8	2724.8	1156.7	526.8
80°	216.0	228.2	259.7	410.2	740.4	890.9	1478.3	1813.3	1193.1	395.7	253.7
82.5°	127.4	139.6	171.1	265.8	581.4	826.6	1041.4	1134.8	559.5	202.7	152.9
85°	70.4	78.9	103.2	160.2	341.1	734.3	833.8	814.4	320.4	108.0	95.9
87.5°	23.1	26.7	37.6	64.3	140.8	345.9	500.1	469.7	166.3	49.8	37.6
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°	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4	2966.4
2.5°	2964.0	2960.3	2905.7	2864.4	2794.0	2735.8	2712.7	2681.2	2679.9	2656.9	2650.8
5°	2892.3	2854.7	2771.0	2690.9	2565.8	2482.1	2405.6	2352.2	2330.4	2283.0	2272.1
7.5°	2800.1	2750.3	2621.7	2471.2	2324.3	2193.2	2074.3	1955.3	1888.6	1865.5	1840.0
10°	2704.2	2616.8	2426.3	2257.6	2052.4	1851.0	1664.0	1496.5	1405.5	1341.2	1313.3
12.5°	2627.7	2511.2	2268.5	2016.0	1745.4	1475.9	1258.6	1082.7	979.5	930.9	909.1
15°	2541.6	2387.4	2096.1	1776.9	1439.5	1133.6	921.2	782.9	741.6	718.5	714.9
17.5°	2450.5	2272.1	1909.2	1541.5	1140.9	853.3	716.1	660.3	642.1	632.4	627.5
20°	2365.6	2169.0	1717.4	1279.3	893.3	684.5	620.2	591.1	589.9	594.7	593.5
22.5°	2245.4	2034.2	1528.1	1036.5	713.7	595.9	554.7	547.4	554.7	560.7	563.2
25°	2177.5	1923.8	1316.9	822.9	589.9	529.2	515.8	513.4	524.3	531.6	530.4
27.5°	2107.1	1809.7	1120.3	659.1	517.1	481.9	479.4	481.9	492.8	503.7	502.5
30°	2052.4	1718.7	935.8	551.0	461.2	447.9	445.4	447.9	453.9	455.2	455.2
32.5°	2007.5	1610.6	779.2	478.2	427.2	416.3	418.7	417.5	418.7	420.0	421.2
35°	1980.8	1546.3	650.6	433.3	399.3	390.8	389.6	386.0	387.2	388.4	387.2
37.5°	2037.9	1514.7	548.6	401.7	379.9	372.6	370.2	367.8	364.1	364.1	364.1
40°	2124.0	1497.8	486.7	381.1	365.3	356.8	349.6	347.1	347.1	348.3	349.6
42.5°	2295.2	1525.7	444.2	365.3	347.1	337.4	330.1	331.4	335.0	338.6	336.2
45°	2542.8	1610.6	424.8	353.2	336.2	322.9	318.0	316.8	320.4	326.5	331.4
47.5°	2866.9	1742.9	417.5	342.3	328.9	310.7	304.6	308.3	313.1	321.6	318.0
50°	3397.3	2040.3	423.6	332.6	318.0	304.6	297.4	293.7	297.4	303.4	305.9
52.5°	4090.3	2580.4	446.7	327.7	310.7	299.8	287.7	281.6	285.2	290.1	290.1
55°	4919.3	3318.4	511.0	321.6	298.6	292.5	279.2	267.0	269.5	269.5	268.2
57.5°	5650.0	3875.5	587.5	313.1	291.3	282.8	265.8	251.2	248.8	250.0	251.2
60°	5977.7	4023.6	623.9	310.7	291.3	270.7	247.6	233.0	229.4	227.0	227.0
62.5°	5920.6	3767.5	549.8	299.8	298.6	261.0	230.6	214.8	210.0	205.1	206.3
65°	5575.9	3402.1	433.3	285.2	299.8	254.9	213.6	197.8	189.3	183.3	182.1
67.5°	4946.0	2904.5	343.5	274.3	287.7	244.0	199.1	180.8	173.6	167.5	165.1
70°	3869.4	2277.0	298.6	259.7	258.5	217.3	182.1	166.3	155.4	148.1	148.1
72.5°	2508.8	1439.5	256.1	230.6	223.3	182.1	157.8	148.1	139.6	133.5	133.5
75°	1136.1	668.8	206.3	193.0	182.1	145.6	133.5	128.7	121.4	115.3	115.3
77.5°	407.8	285.2	154.1	151.7	135.9	112.9	108.0	104.4	99.5	93.5	93.5
80°	228.2	180.8	115.3	110.5	94.7	83.7	77.7	77.7	75.3	71.6	70.4
82.5°	144.4	117.7	85.0	74.0	61.9	55.8	53.4	52.2	51.0	46.1	44.9
85°	91.0	80.1	55.8	43.7	36.4	27.9	26.7	25.5	23.1	20.6	20.6
87.5°	41.3	46.1	21.8	13.4	9.7	6.1	3.6	1.2	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)