

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: P480379

Luminaire Tested: **IFLD-S-SA3A-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480379
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

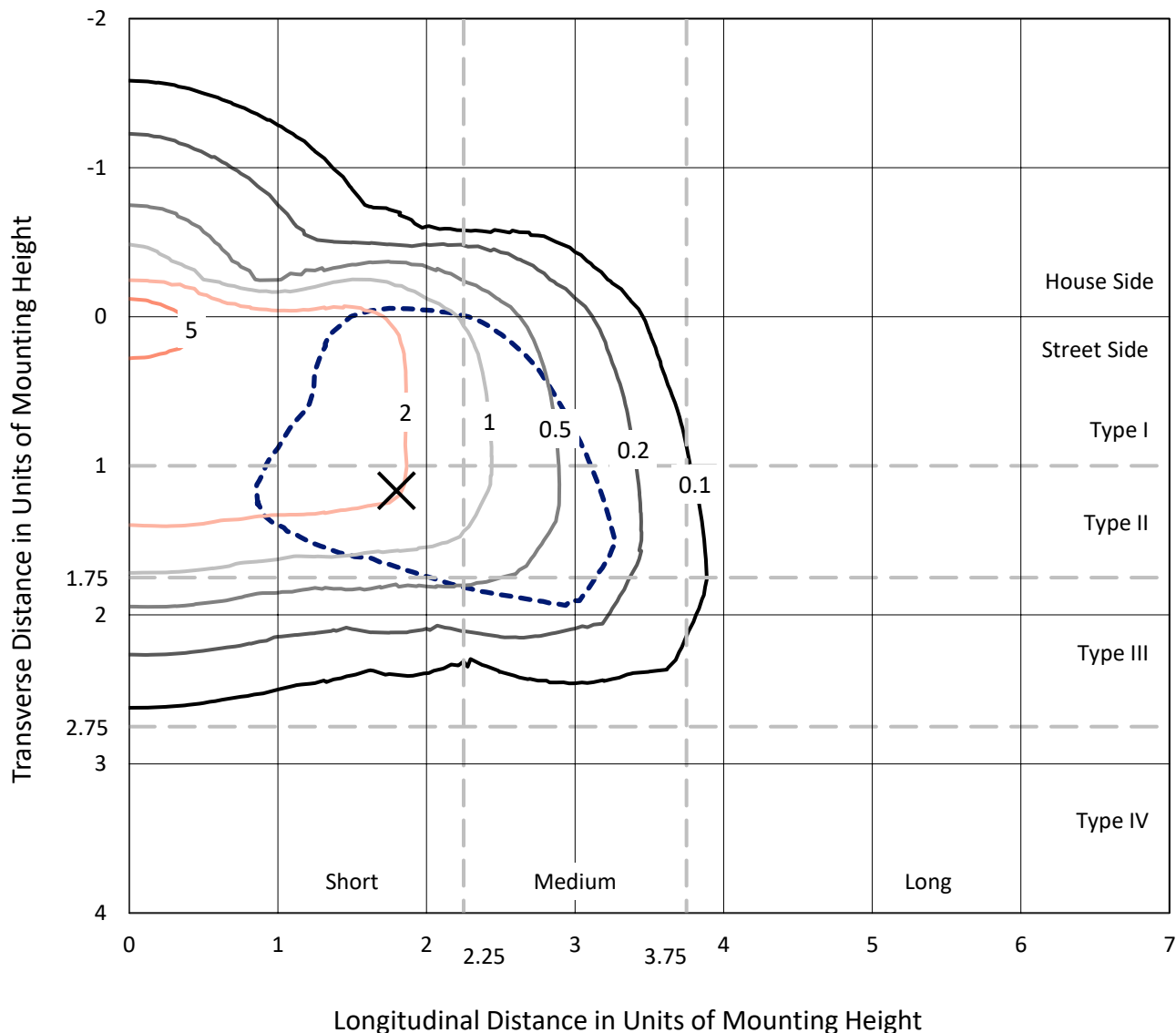
Lumens per Lamp: N/A
Luminaire Lumens: 11353.5 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

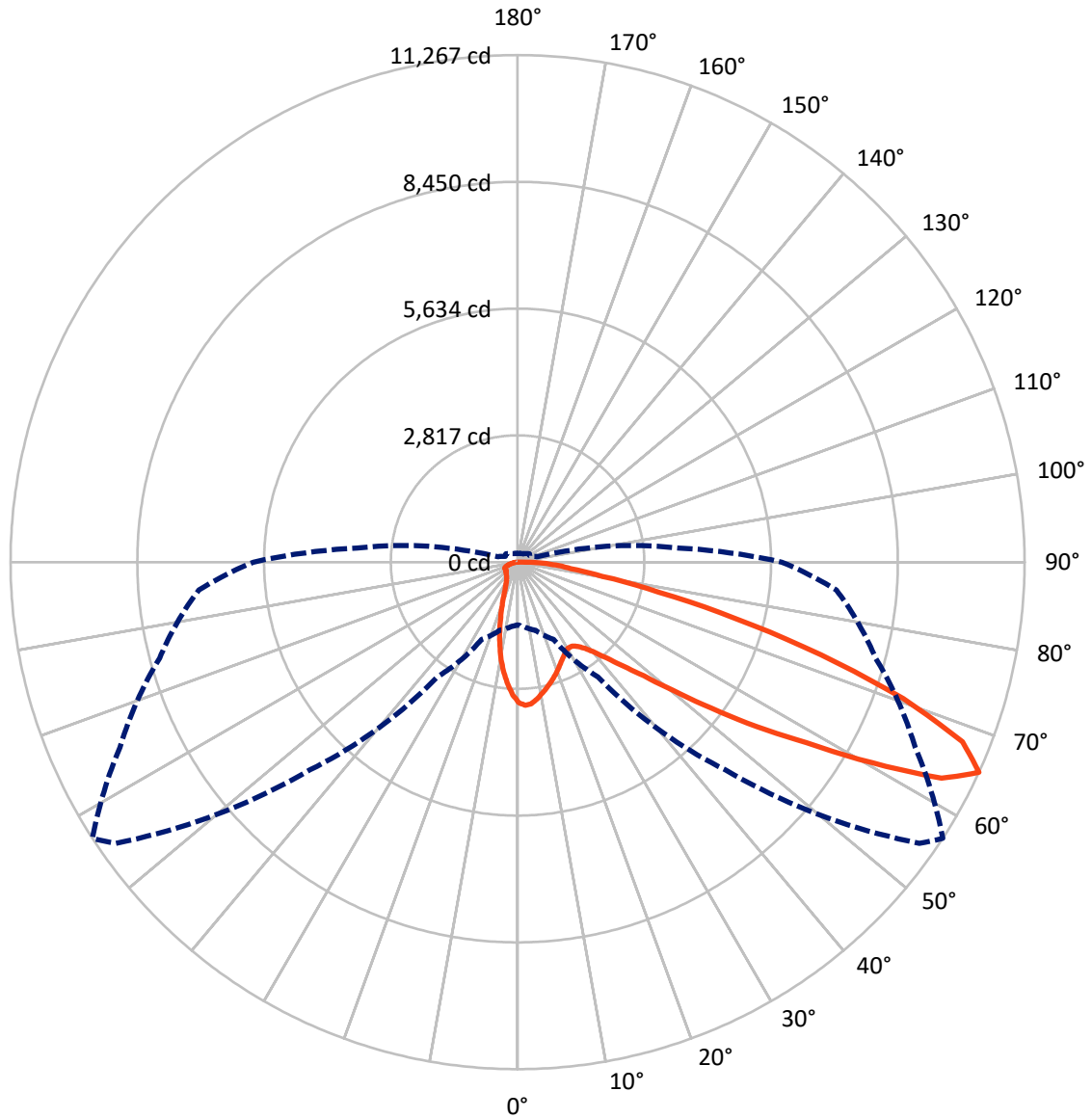
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 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	1741.2	0.0	1741.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	9612.3	0.0	9612.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	11353.5	0.0	11353.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	2.3
10°-20°	562.7	5.0
20°-30°	727.5	6.4
30°-40°	979.0	8.6
40°-50°	1561.0	13.7
50°-60°	2757.1	24.3
60°-70°	3033.2	26.7
70°-80°	1268.8	11.2
80°-90°	202.8	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°	11353.5	100.0
0°-180°	11353.5	100.0

Coefficient of Utilization

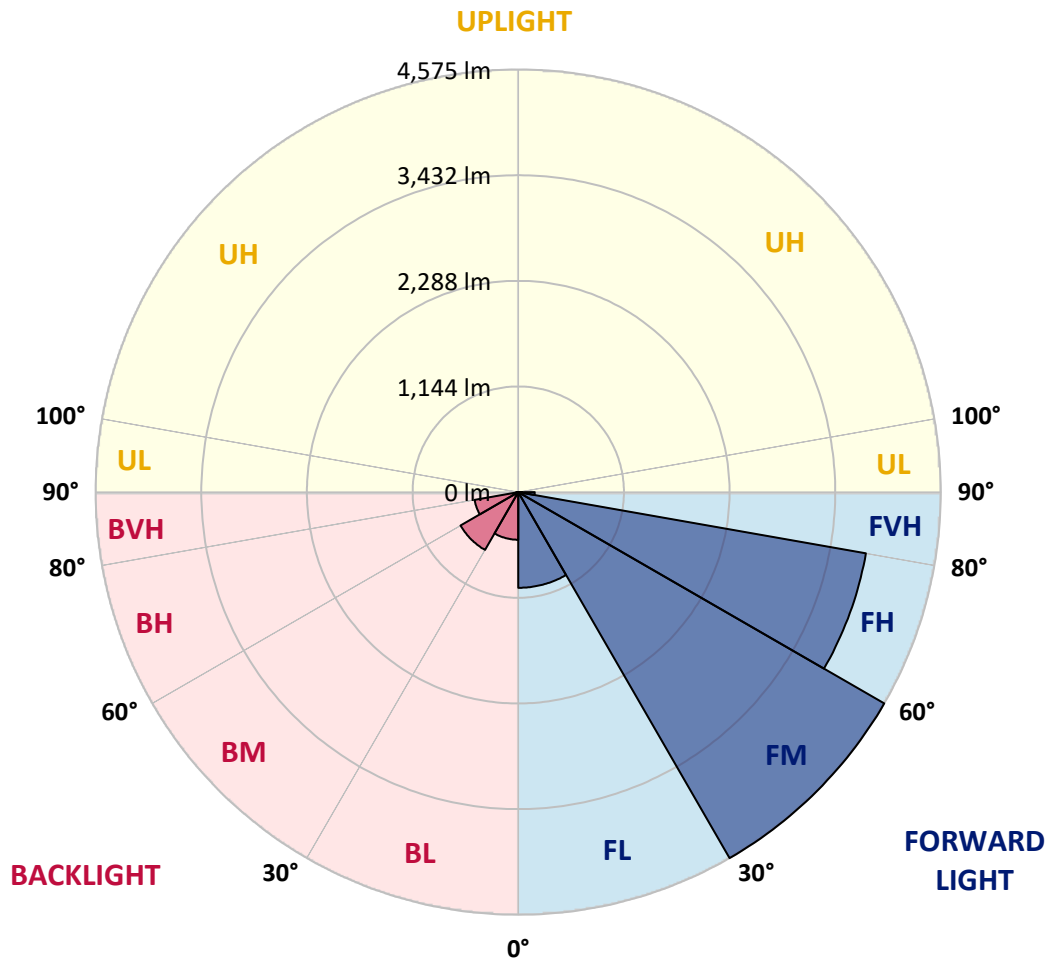


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1036.0	9.1			
FM (30°-60°)	4575.5	40.3			
FH (60°-80°)	3821.9	33.7			G2/5000
FVH (80°-90°)	179.0	1.6			G2/225
BL (0°-30°)	515.6	4.5	B2/1000		
BM (30°-60°)	721.6	6.4	B1/1000		
BH (60°-80°)	480.1	4.2	B1/500		G1/500
BVH (80°-90°)	23.8	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°	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1
2.5°	3206.4	3211.5	3211.5	3221.7	3187.2	3203.8	3201.3	3185.9	3191.0	3164.2	3137.4
5°	3115.7	3111.8	3132.3	3134.8	3161.7	3169.3	3175.7	3165.5	3168.0	3109.3	3083.7
7.5°	2883.2	2881.9	2916.4	2945.8	3002.0	3054.4	3088.8	3078.6	3092.7	3055.6	2995.6
10°	2607.2	2636.6	2672.4	2701.8	2805.3	2871.7	2961.1	2970.0	3023.7	3014.8	2906.2
12.5°	2400.3	2413.1	2439.9	2524.2	2618.7	2728.6	2856.3	2867.8	2920.2	2945.8	2851.2
15°	2230.4	2241.9	2276.4	2339.0	2445.0	2575.3	2737.5	2766.9	2871.7	2880.6	2779.7
17.5°	2106.5	2115.4	2138.4	2201.0	2287.9	2455.2	2608.5	2660.9	2798.9	2842.3	2705.6
20°	2058.0	2038.8	2051.6	2091.2	2178.0	2307.1	2505.1	2551.0	2727.3	2812.9	2635.4
22.5°	2036.2	2019.6	2027.3	2024.7	2093.7	2185.7	2393.9	2442.5	2659.6	2778.4	2572.8
25°	2052.8	2052.8	2045.2	2038.8	2046.5	2106.5	2273.8	2349.2	2568.9	2749.0	2508.9
27.5°	2142.3	2107.8	2111.6	2084.8	2077.1	2077.1	2220.2	2264.9	2539.5	2732.4	2456.5
30°	2199.7	2216.4	2217.6	2178.0	2138.4	2066.9	2170.4	2213.8	2515.3	2752.9	2425.9
32.5°	2346.7	2339.0	2317.3	2309.6	2250.8	2170.4	2194.6	2224.0	2501.2	2798.9	2434.8
35°	2493.6	2489.7	2491.0	2487.2	2425.9	2307.1	2259.8	2299.4	2526.8	2879.3	2465.5
37.5°	2645.6	2655.8	2699.2	2699.2	2634.1	2505.1	2442.5	2431.0	2620.0	3010.9	2538.3
40°	2797.6	2823.1	2878.1	2964.9	2873.0	2752.9	2652.0	2634.1	2732.4	3187.2	2713.3
42.5°	2943.2	2985.4	3094.0	3223.0	3192.3	3072.2	2938.1	2917.7	2963.7	3449.1	2957.3
45°	3129.7	3165.5	3336.7	3534.7	3576.8	3470.8	3313.7	3297.1	3294.5	3832.3	3293.2
47.5°	3413.3	3451.6	3622.8	3822.1	3952.4	3969.0	3792.7	3774.8	3713.5	4349.7	3785.0
50°	3768.4	3831.0	3975.4	4207.9	4396.9	4574.5	4524.7	4472.3	4352.2	4951.3	4408.4
52.5°	4027.8	4104.4	4299.9	4597.5	4930.9	5213.2	5392.1	5392.1	5116.1	5611.8	5158.3
55°	4096.7	4142.7	4389.3	4819.8	5390.8	6104.9	6479.2	6451.1	6025.7	6306.7	6030.8
57.5°	3822.1	3882.1	4181.1	4632.0	5632.2	6939.0	7558.6	7565.0	7019.5	7114.0	6891.8
60°	3065.8	3085.0	3437.6	4040.5	5399.7	7611.0	9032.8	9057.0	8150.1	7833.2	7329.9
62.5°	2119.3	2180.6	2446.3	2975.2	4473.6	7535.6	10454.5	10574.6	9055.8	8212.6	7398.9
65°	1395.0	1432.0	1573.8	1895.7	3114.4	6531.5	10896.5	11267.0	9748.1	8234.4	7110.2
67.5°	1011.7	1018.1	1060.3	1226.3	1871.4	4697.1	10141.6	10664.0	10007.4	8053.0	6433.2
70°	817.6	822.7	838.0	944.0	1208.5	2939.4	8271.4	9090.2	9229.5	7193.2	5181.3
72.5°	664.3	670.7	689.8	789.5	996.4	1635.1	6048.7	7046.3	7507.5	5321.8	3444.0
75°	522.5	527.6	573.6	671.9	936.4	1122.9	4012.4	4989.7	5052.3	3110.6	1612.1
77.5°	357.7	366.6	422.8	569.7	881.4	982.3	2501.2	3196.1	2867.8	1217.4	554.4
80°	227.4	240.2	273.4	431.8	779.2	937.6	1555.9	1908.5	1255.7	416.4	267.0
82.5°	134.1	146.9	180.1	279.8	611.9	869.9	1096.0	1194.4	588.9	213.3	161.0
85°	74.1	83.0	108.6	168.6	359.0	772.8	877.6	857.2	337.2	113.7	100.9
87.5°	24.3	28.1	39.6	67.7	148.2	364.1	526.3	494.4	175.0	52.4	39.6
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°	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1	3122.1
2.5°	3119.5	3115.7	3058.2	3014.8	2940.7	2879.3	2855.1	2821.9	2820.6	2796.3	2789.9
5°	3044.1	3004.5	2916.4	2832.1	2700.5	2612.4	2531.9	2475.7	2452.7	2402.9	2391.4
7.5°	2947.0	2894.7	2759.3	2600.9	2446.3	2308.3	2183.1	2058.0	1987.7	1963.4	1936.6
10°	2846.1	2754.2	2553.6	2376.0	2160.1	1948.1	1751.4	1575.1	1479.3	1411.6	1382.2
12.5°	2765.7	2643.0	2387.5	2121.8	1837.0	1553.4	1324.7	1139.5	1030.9	979.8	956.8
15°	2675.0	2512.7	2206.1	1870.2	1515.0	1193.1	969.6	823.9	780.5	756.2	752.4
17.5°	2579.1	2391.4	2009.4	1622.3	1200.8	898.0	753.7	694.9	675.8	665.5	660.4
20°	2489.7	2282.8	1807.6	1346.4	940.2	720.5	652.8	622.1	620.8	625.9	624.7
22.5°	2363.3	2141.0	1608.3	1090.9	751.1	627.2	583.8	576.1	583.8	590.2	592.7
25°	2291.7	2024.7	1386.0	866.1	620.8	557.0	542.9	540.4	551.9	559.5	558.2
27.5°	2217.6	1904.7	1179.1	693.6	544.2	507.1	504.6	507.1	518.6	530.1	528.9
30°	2160.1	1808.9	984.9	580.0	485.4	471.4	468.8	471.4	477.8	479.0	479.0
32.5°	2112.9	1695.2	820.1	503.3	449.7	438.2	440.7	439.4	440.7	442.0	443.3
35°	2084.8	1627.5	684.7	456.0	420.3	411.3	410.1	406.2	407.5	408.8	407.5
37.5°	2144.8	1594.2	577.4	422.8	399.8	392.2	389.6	387.1	383.2	383.2	383.2
40°	2235.5	1576.4	512.3	401.1	384.5	375.6	367.9	365.3	365.3	366.6	367.9
42.5°	2415.6	1605.7	467.5	384.5	365.3	355.1	347.5	348.7	352.6	356.4	353.9
45°	2676.2	1695.2	447.1	371.7	353.9	339.8	334.7	333.4	337.2	343.6	348.7
47.5°	3017.3	1834.4	439.4	360.2	346.2	327.0	320.6	324.5	329.6	338.5	334.7
50°	3575.5	2147.4	445.8	350.0	334.7	320.6	313.0	309.1	313.0	319.4	321.9
52.5°	4305.0	2715.8	470.1	344.9	327.0	315.5	302.8	296.4	300.2	305.3	305.3
55°	5177.5	3492.5	537.8	338.5	314.2	307.9	293.8	281.0	283.6	283.6	282.3
57.5°	5946.5	4078.9	618.3	329.6	306.6	297.6	279.8	264.4	261.9	263.2	264.4
60°	6291.4	4234.7	656.6	327.0	306.6	284.9	260.6	245.3	241.4	238.9	238.9
62.5°	6231.3	3965.2	578.7	315.5	314.2	274.6	242.7	226.1	221.0	215.9	217.2
65°	5868.5	3580.7	456.0	300.2	315.5	268.3	224.8	208.2	199.3	192.9	191.6
67.5°	5205.6	3056.9	361.5	288.7	302.8	256.8	209.5	190.3	182.7	176.3	173.7
70°	4072.5	2396.5	314.2	273.4	272.1	228.7	191.6	175.0	163.5	155.8	155.8
72.5°	2640.5	1515.0	269.5	242.7	235.0	191.6	166.1	155.8	146.9	140.5	140.5
75°	1195.7	703.9	217.2	203.1	191.6	153.3	140.5	135.4	127.7	121.4	121.4
77.5°	429.2	300.2	162.2	159.7	143.1	118.8	113.7	109.9	104.7	98.4	98.4
80°	240.2	190.3	121.4	116.2	99.6	88.1	81.8	81.8	79.2	75.4	74.1
82.5°	152.0	123.9	89.4	77.9	65.1	58.8	56.2	54.9	53.7	48.5	47.3
85°	95.8	84.3	58.8	46.0	38.3	29.4	28.1	26.8	24.3	21.7	21.7
87.5°	43.4	48.5	23.0	14.1	10.2	6.4	3.8	1.3	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)