

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: P476715

Luminaire Tested: **IFLD-S-SA3C-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476715  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

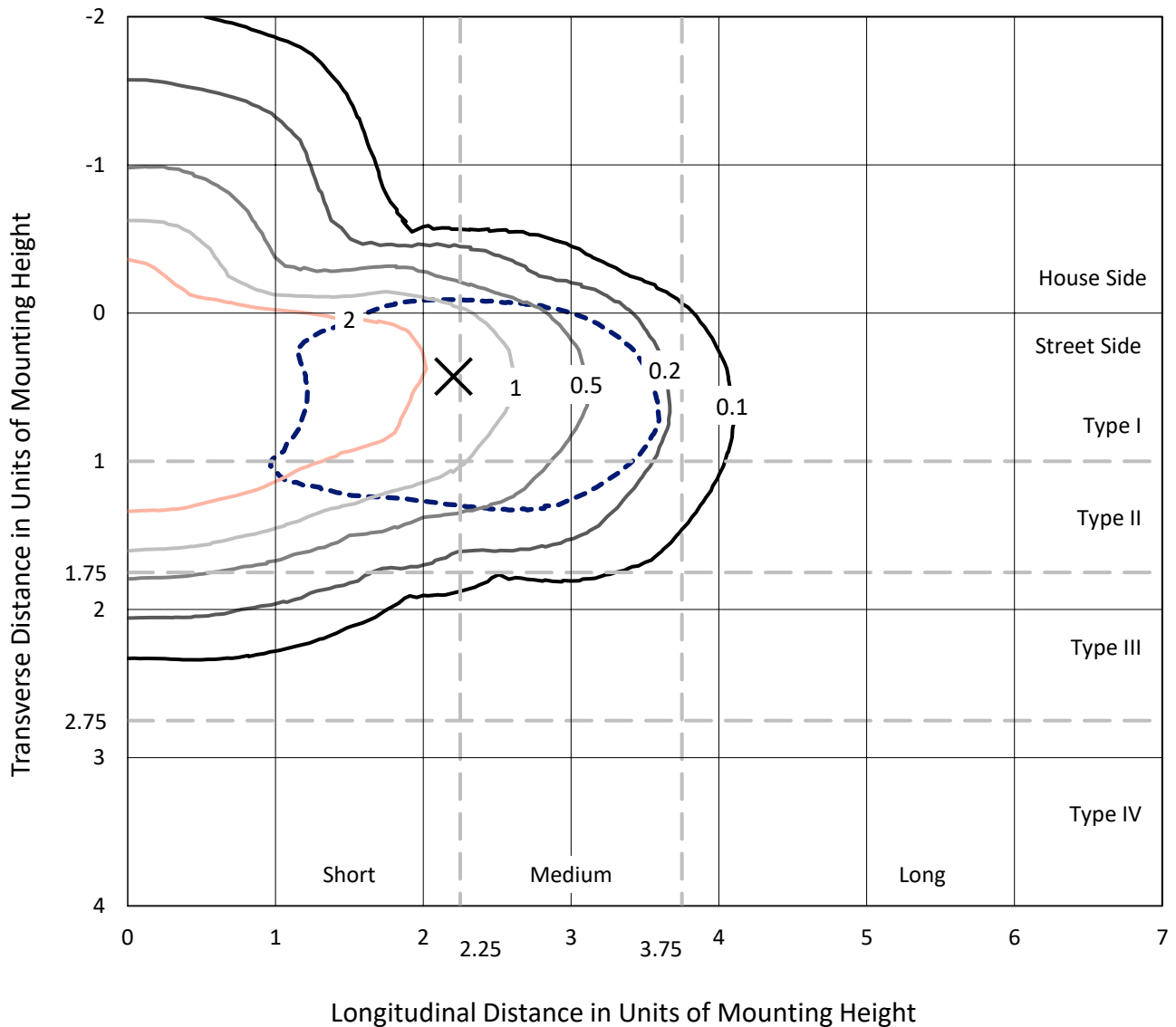
Lumens per Lamp: N/A  
Luminaire Lumens: 15552.1 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 160.8  
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

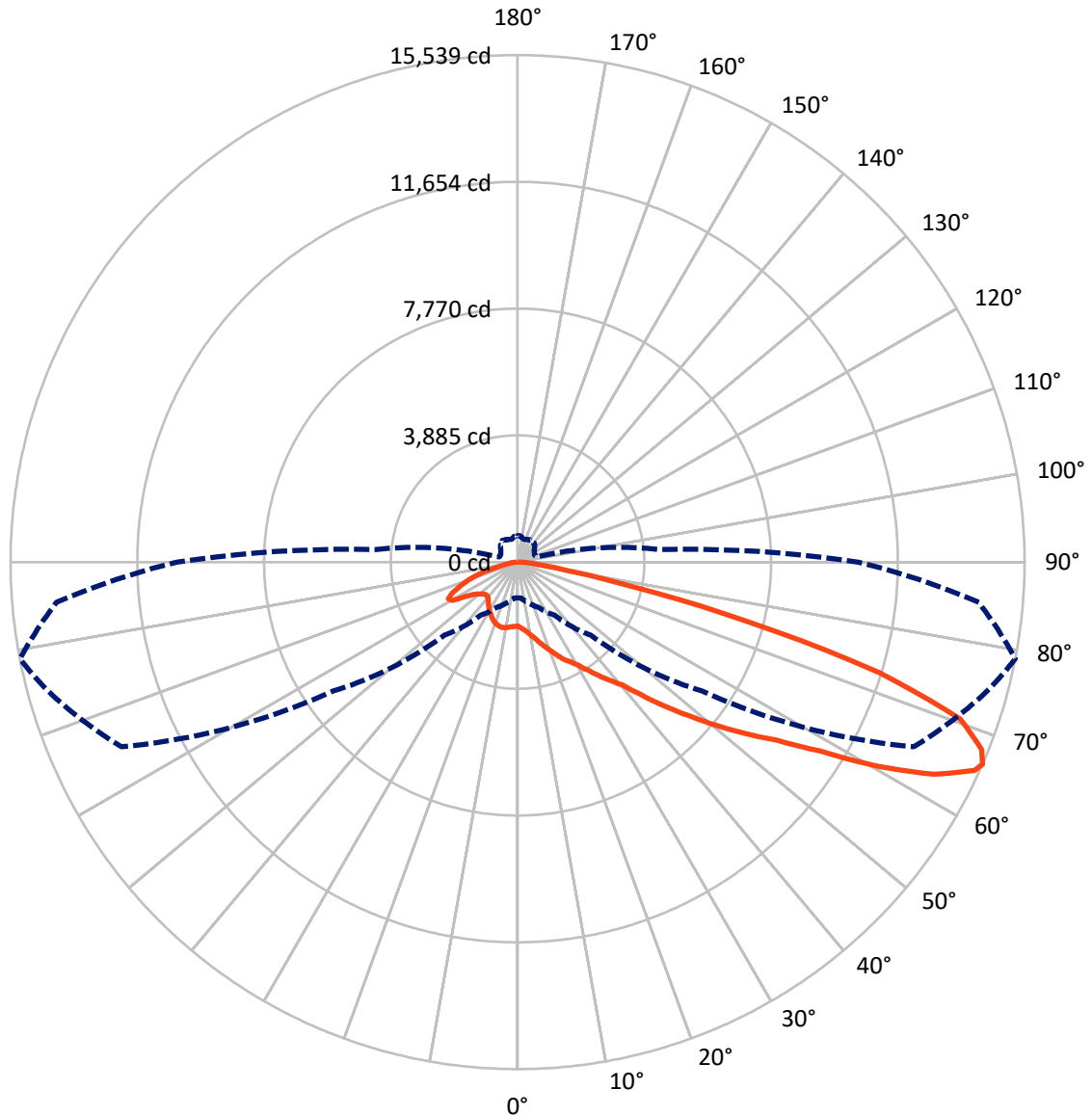
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3140.5	0.0	3140.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	12411.6	0.0	12411.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	15552.1	0.0	15552.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.1	1.2
10°-20°	596.3	3.8
20°-30°	1023.5	6.6
30°-40°	1581.2	10.2
40°-50°	2532.6	16.3
50°-60°	3781.4	24.3
60°-70°	3885.4	25.0
70°-80°	1722.3	11.1
80°-90°	236.3	1.5
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°	15552.1	100.0
0°-180°	15552.1	100.0

**Coefficient of Utilization**



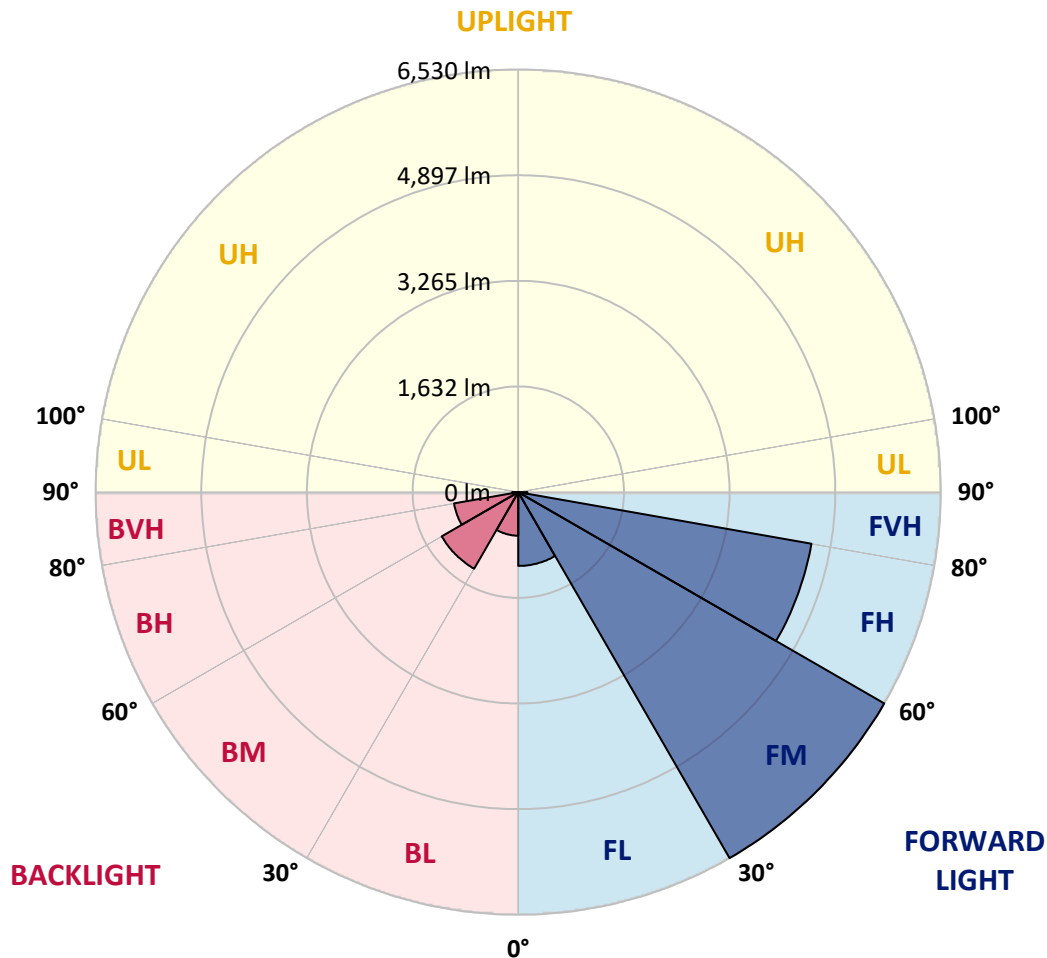
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.1	7.3			
FM (30°-60°)	6529.8	42.0			
FH (60°-80°)	4600.0	29.6			G2/5000
FVH (80°-90°)	141.7	0.9			G2/225
BL (0°-30°)	672.9	4.3	B2/1000		
BM (30°-60°)	1365.4	8.8	B2/2500		
BH (60°-80°)	1007.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	94.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8
2.5°	2088.7	2090.4	2090.4	2083.5	2085.3	2090.4	2071.6	2030.5	2030.5	2023.7	2011.7
5°	2217.0	2208.4	2196.4	2198.2	2191.3	2191.3	2170.8	2131.4	2097.2	2083.5	2047.6
7.5°	2234.1	2242.6	2240.9	2261.4	2271.7	2271.7	2282.0	2249.5	2198.2	2165.7	2129.7
10°	2268.3	2246.0	2244.3	2292.2	2307.6	2343.6	2384.6	2367.5	2324.7	2278.6	2230.7
12.5°	2288.8	2302.5	2302.5	2326.4	2362.4	2415.4	2487.2	2519.7	2453.0	2405.1	2331.6
15°	2319.6	2300.8	2355.5	2376.1	2444.5	2482.1	2584.8	2668.6	2624.1	2565.9	2449.6
17.5°	2333.3	2321.3	2352.1	2389.7	2506.1	2562.5	2687.4	2803.7	2766.1	2728.4	2608.7
20°	2403.4	2401.7	2415.4	2446.2	2530.0	2641.2	2796.9	2957.7	2971.4	2902.9	2740.4
22.5°	2574.5	2552.3	2552.3	2540.3	2576.2	2690.8	2901.2	3123.6	3185.2	3104.8	2889.2
25°	2731.9	2762.7	2743.8	2689.1	2675.4	2735.3	2976.5	3299.8	3381.9	3306.6	3091.1
27.5°	2933.7	2944.0	2976.5	2902.9	2808.8	2827.7	3058.6	3399.0	3568.4	3467.4	3205.7
30°	3224.5	3205.7	3198.9	3116.8	2993.6	2967.9	3152.7	3544.4	3813.0	3671.0	3340.8
32.5°	3421.2	3467.4	3465.7	3352.8	3204.0	3147.5	3269.0	3681.3	4074.7	3943.0	3590.6
35°	3811.3	3859.2	3821.5	3655.6	3481.1	3368.2	3436.6	3859.2	4374.1	4271.4	3802.7
37.5°	4309.1	4422.0	4341.6	4035.4	3789.0	3665.9	3669.3	4052.5	4680.3	4596.4	4030.2
40°	4652.9	4805.1	4694.0	4406.6	4144.8	4028.5	3982.3	4281.7	5046.3	4957.4	4386.0
42.5°	5078.8	5205.4	5147.3	4863.3	4557.1	4457.9	4365.5	4664.9	5605.7	5564.7	4842.8
45°	5544.1	5604.0	5585.2	5405.6	5065.2	5030.9	4827.4	5169.5	6264.3	6281.4	5414.1
47.5°	5976.9	6009.4	6045.3	5915.3	5703.2	5732.3	5359.4	5710.1	6904.1	7017.0	6050.5
50°	6088.1	6199.3	6283.1	6370.4	6416.6	6613.3	5946.1	6373.8	7639.6	7858.6	6758.7
52.5°	5975.2	5966.7	6221.5	6495.2	6957.1	7369.4	6745.0	7198.3	8289.7	8722.5	7407.0
55°	5462.0	5444.9	5855.5	6218.1	7119.6	7790.2	7886.0	8296.5	9074.9	9637.7	8284.6
57.5°	4563.9	4457.9	4906.1	5501.4	6767.2	7836.4	9032.1	9926.8	10282.6	10924.0	9624.0
60°	3067.1	3022.7	3452.0	4161.9	5494.5	7181.2	9718.1	11967.5	11984.6	12706.5	11702.4
62.5°	1888.5	1897.1	2172.5	2704.5	3847.2	5693.0	9422.1	13597.8	13601.2	14324.8	13413.0
65°	1235.1	1240.2	1462.6	1756.8	2403.4	3860.9	7791.9	13726.0	14725.1	15397.3	14196.5
66°	1099.9	1101.6	1293.2	1532.7	1991.2	3159.5	6881.8	13392.5	14978.2	15539.3	14186.2
67.5°	927.2	949.4	1103.4	1288.1	1553.2	2270.0	5460.3	12427.7	14848.2	15340.9	13864.6
70°	725.3	737.3	858.7	1046.9	1164.9	1313.8	3245.1	10130.3	13590.9	14389.8	12694.5
72.5°	581.6	591.9	684.2	850.2	946.0	865.6	1767.1	7350.6	10735.9	11587.8	9984.9
75°	490.9	492.7	537.1	668.9	778.3	650.0	940.8	4717.9	6888.7	7285.5	6117.2
77.5°	396.9	403.7	434.5	509.8	626.1	511.5	561.1	2642.9	3458.9	3488.0	2827.7
80°	323.3	326.7	345.5	371.2	477.3	378.0	379.8	1289.8	1483.1	1448.9	1149.5
82.5°	254.9	258.3	280.5	275.4	350.7	270.3	236.1	621.0	682.5	668.9	528.6
85°	143.7	143.7	220.7	220.7	222.4	171.1	143.7	292.5	360.9	337.0	248.0
87.5°	46.2	47.9	66.7	70.1	111.2	77.0	70.1	109.5	171.1	150.5	89.0
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°	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8	1963.8
2.5°	2004.9	1977.5	1965.5	1926.2	1915.9	1890.2	1878.3	1862.9	1857.7	1835.5	1856.0
5°	2020.2	2011.7	1963.8	1914.2	1876.6	1859.4	1833.8	1799.6	1796.2	1765.4	1761.9
7.5°	2085.3	2056.2	1972.3	1919.3	1844.1	1801.3	1744.8	1727.7	1705.5	1695.2	1717.5
10°	2186.2	2112.6	1987.7	1854.3	1761.9	1710.6	1669.6	1657.6	1659.3	1652.5	1642.2
12.5°	2258.0	2187.9	1962.1	1799.6	1679.8	1630.2	1626.8	1638.8	1657.6	1649.0	1661.0
15°	2360.7	2228.9	1943.3	1708.9	1613.1	1599.4	1597.7	1633.6	1631.9	1631.9	1630.2
17.5°	2456.5	2270.0	1874.8	1630.2	1543.0	1553.2	1565.2	1563.5	1580.6	1587.5	1599.4
20°	2577.9	2317.9	1779.0	1551.5	1490.0	1486.5	1484.8	1486.5	1503.6	1513.9	1505.3
22.5°	2684.0	2328.2	1698.6	1476.3	1426.7	1413.0	1390.7	1413.0	1404.4	1407.8	1418.1
25°	2776.3	2329.9	1584.0	1419.8	1363.4	1332.6	1315.5	1313.8	1298.4	1296.7	1296.7
27.5°	2853.3	2271.7	1483.1	1341.1	1288.1	1259.0	1257.3	1238.5	1199.1	1173.5	1176.9
30°	2913.2	2227.2	1413.0	1272.7	1221.4	1216.3	1200.9	1158.1	1106.8	1074.3	1074.3
32.5°	3019.3	2138.3	1317.2	1202.6	1176.9	1170.1	1134.1	1096.5	1048.6	1017.8	1012.7
35°	3097.9	2056.2	1253.9	1142.7	1130.7	1117.0	1086.2	1045.2	1031.5	1024.7	1029.8
37.5°	3186.9	1963.8	1176.9	1091.4	1103.4	1077.7	1041.8	1023.0	1070.9	1058.9	1064.0
40°	3328.9	1898.8	1101.6	1060.6	1072.6	1043.5	997.3	990.5	1050.3	1007.6	997.3
42.5°	3588.9	1897.1	1055.5	1014.4	1023.0	1000.7	959.7	956.2	980.2	928.9	913.5
45°	3912.2	1957.0	1021.2	980.2	973.3	969.9	956.2	940.8	920.3	853.6	836.5
47.5°	4298.8	2054.5	1014.4	928.9	937.4	966.5	949.4	910.1	857.0	814.3	805.7
50°	4767.5	2256.3	997.3	891.2	906.6	952.8	939.1	884.4	836.5	809.1	804.0
52.5°	5285.8	2511.2	975.1	833.1	867.3	940.8	947.7	896.4	826.2	802.3	798.9
55°	5896.5	2887.5	949.4	769.8	821.1	928.9	947.7	862.2	812.5	812.5	809.1
57.5°	7102.5	3564.9	896.4	711.6	780.0	906.6	920.3	863.9	814.3	814.3	807.4
60°	8871.3	4622.1	795.4	667.1	740.7	875.8	899.8	838.2	795.4	805.7	804.0
62.5°	10255.2	4943.7	709.9	624.4	701.4	819.4	872.4	810.8	773.2	810.8	814.3
65°	10551.1	4618.7	622.7	578.2	646.6	764.6	833.1	771.5	740.7	814.3	817.7
66°	10445.1	4365.5	591.9	564.5	622.7	737.3	809.1	757.8	723.6	810.8	812.5
67.5°	9972.9	3985.8	557.7	535.4	590.2	697.9	781.8	739.0	696.2	800.6	785.2
70°	8946.6	3380.2	499.5	484.1	544.0	632.9	718.5	691.1	653.5	737.3	709.9
72.5°	6890.4	2701.1	437.9	439.6	490.9	566.2	655.2	636.4	603.9	646.6	629.5
75°	4196.2	1726.0	381.5	384.9	427.7	502.9	595.3	581.6	542.3	566.2	557.7
77.5°	1859.4	855.3	321.6	328.4	362.7	443.1	518.3	496.1	455.0	460.2	456.7
80°	721.9	405.4	261.7	270.3	292.5	354.1	429.4	408.8	372.9	366.1	362.7
82.5°	347.3	225.8	201.9	205.3	213.8	282.3	369.5	343.8	295.9	265.1	265.1
85°	174.5	140.3	142.0	130.0	142.0	191.6	249.8	208.7	172.8	154.0	157.4
87.5°	70.1	70.1	70.1	59.9	63.3	90.7	116.3	78.7	71.8	42.8	42.8
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)