

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: P476596

Luminaire Tested: **IFLD-S-SA3A-740-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476596  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

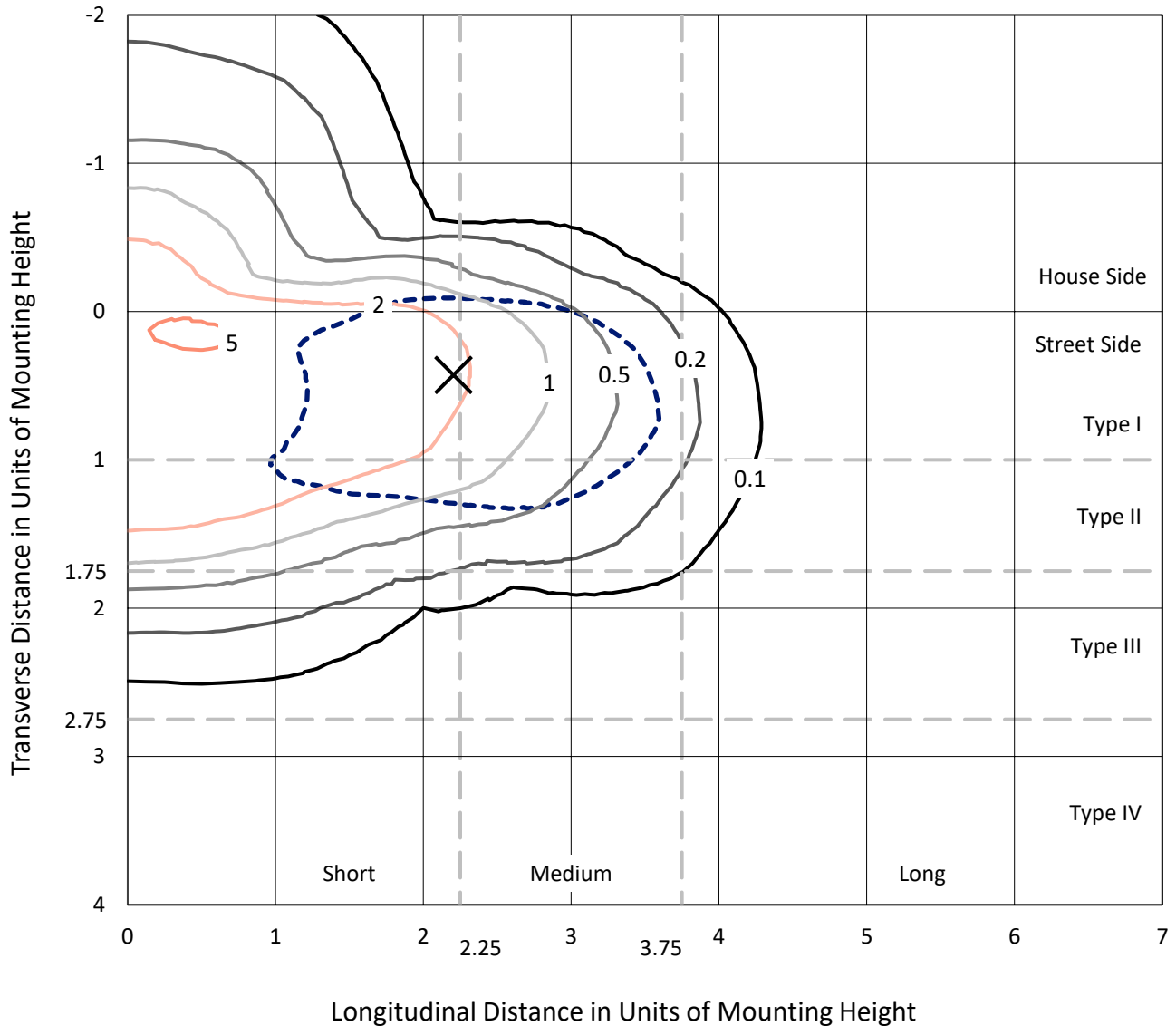
Lumens per Lamp: N/A  
Luminaire Lumens: 13741.9 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

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

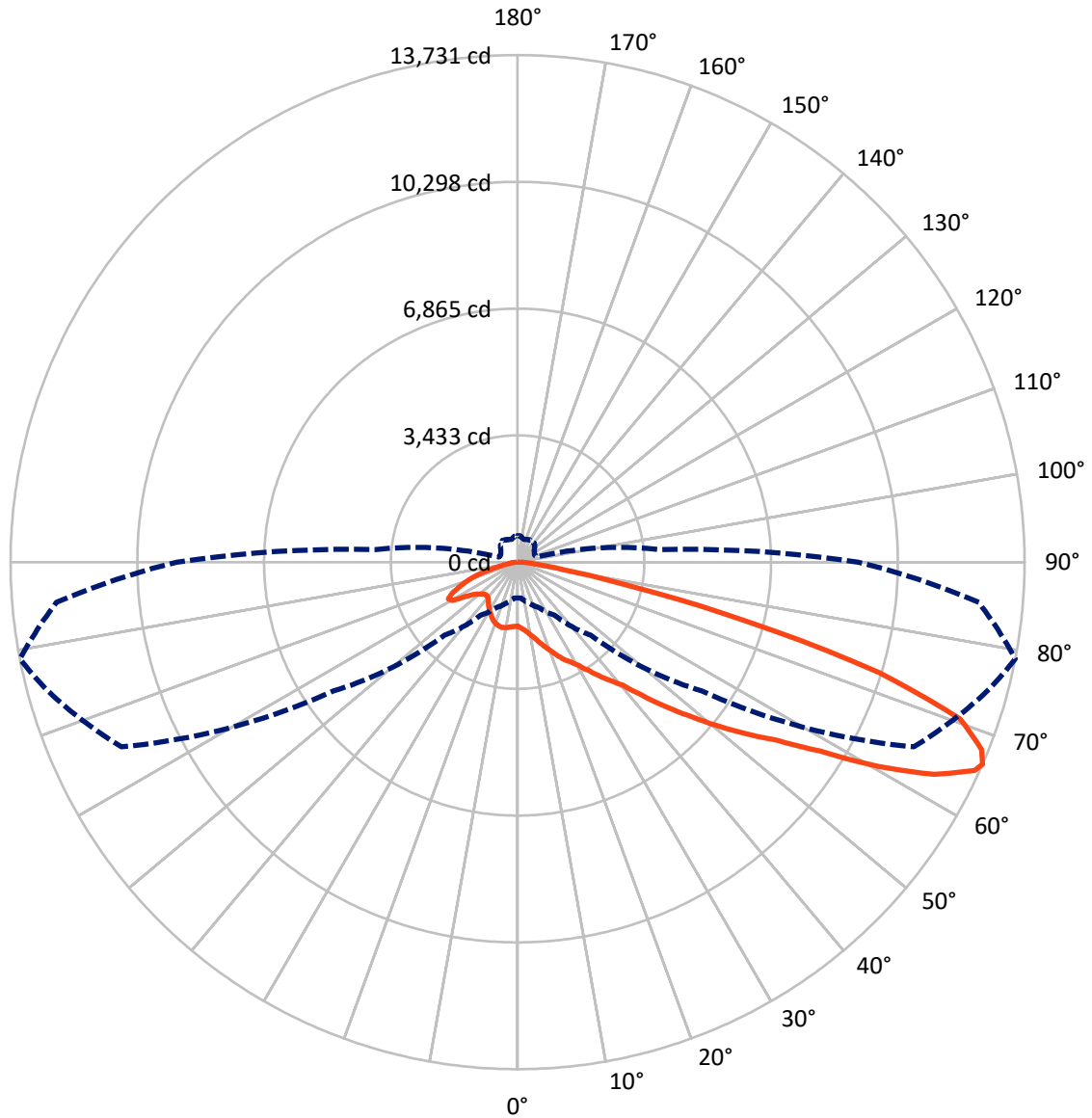
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P476596  
CATALOG NUMBER: IFLD-S-SA3A-740-U-T2

### 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	2775.0	0.0	2775.0
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	10966.9	0.0	10966.9
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	13741.9	0.0	13741.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.6	1.2
10°-20°	526.9	3.8
20°-30°	904.4	6.6
30°-40°	1397.1	10.2
40°-50°	2237.8	16.3
50°-60°	3341.2	24.3
60°-70°	3433.1	25.0
70°-80°	1521.9	11.1
80°-90°	208.8	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°	13741.9	100.0
0°-180°	13741.9	100.0



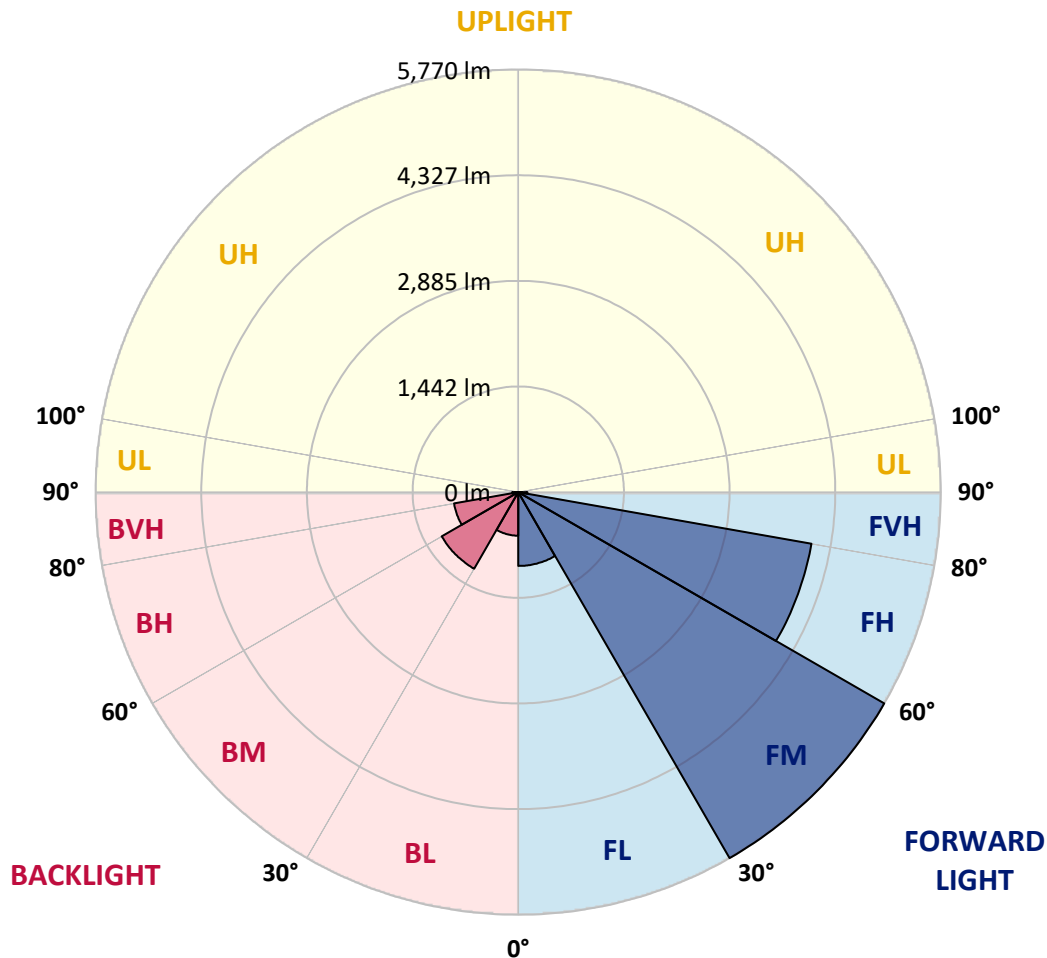
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 CATALOG NUMBER: IFLD-S-SA3A-740-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.4	7.3			
FM (30°-60°)	5769.8	42.0			
FH (60°-80°)	4064.6	29.6			G2/5000
FVH (80°-90°)	125.2	0.9			G2/225
BL (0°-30°)	594.5	4.3	B2/1000		
BM (30°-60°)	1206.4	8.8	B2/2500		
BH (60°-80°)	890.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	83.6	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P476596  
 CATALOG NUMBER: IFLD-S-SA3A-740-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2
2.5°	1845.6	1847.1	1847.1	1841.0	1842.5	1847.1	1830.4	1794.2	1794.2	1788.1	1777.5
5°	1958.9	1951.4	1940.8	1942.3	1936.3	1936.3	1918.1	1883.4	1853.1	1841.0	1809.3
7.5°	1974.0	1981.6	1980.1	1998.2	2007.3	2007.3	2016.4	1987.6	1942.3	1913.6	1881.8
10°	2004.3	1984.6	1983.1	2025.4	2039.0	2070.8	2107.1	2091.9	2054.2	2013.3	1971.0
12.5°	2022.4	2034.5	2034.5	2055.7	2087.4	2134.3	2197.7	2226.5	2167.5	2125.2	2060.2
15°	2049.6	2033.0	2081.4	2099.5	2160.0	2193.2	2283.9	2358.0	2318.7	2267.3	2164.5
17.5°	2061.7	2051.1	2078.3	2111.6	2214.4	2264.3	2374.6	2477.4	2444.1	2410.9	2305.1
20°	2123.7	2122.2	2134.3	2161.5	2235.5	2333.8	2471.3	2613.4	2625.5	2565.0	2421.5
22.5°	2274.8	2255.2	2255.2	2244.6	2276.3	2377.6	2563.5	2760.0	2814.4	2743.4	2553.0
25°	2413.9	2441.1	2424.5	2376.1	2364.0	2416.9	2630.0	2915.7	2988.3	2921.8	2731.3
27.5°	2592.3	2601.3	2630.0	2565.0	2481.9	2498.5	2702.6	3003.4	3153.0	3063.8	2832.6
30°	2849.2	2832.6	2826.5	2754.0	2645.2	2622.5	2785.7	3131.9	3369.2	3243.7	2952.0
32.5°	3023.0	3063.8	3062.3	2962.6	2831.1	2781.2	2888.5	3252.8	3600.4	3484.1	3172.7
35°	3367.7	3410.0	3376.7	3230.1	3075.9	2976.2	3036.6	3410.0	3865.0	3774.3	3360.1
37.5°	3807.5	3907.3	3836.2	3565.7	3348.0	3239.2	3242.2	3580.8	4135.5	4061.5	3561.1
40°	4111.3	4245.9	4147.6	3893.7	3662.4	3559.6	3518.8	3783.3	4459.0	4380.4	3875.5
42.5°	4487.7	4599.6	4548.2	4297.2	4026.7	3939.0	3857.4	4121.9	4953.2	4917.0	4279.1
45°	4898.8	4951.7	4935.1	4776.4	4475.6	4445.4	4265.5	4567.8	5535.2	5550.3	4784.0
47.5°	5281.2	5310.0	5341.7	5226.8	5039.4	5065.1	4735.6	5045.4	6100.5	6200.2	5346.2
50°	5379.5	5477.7	5551.8	5628.9	5669.7	5843.5	5254.0	5631.9	6750.4	6943.9	5972.0
52.5°	5279.7	5272.2	5497.4	5739.2	6147.3	6511.6	5959.9	6360.5	7324.8	7707.2	6544.9
55°	4826.3	4811.2	5173.9	5494.4	6290.9	6883.5	6968.1	7330.9	8018.6	8515.9	7320.3
57.5°	4032.7	3939.0	4335.0	4861.0	5979.6	6924.3	7980.8	8771.3	9085.7	9652.6	8503.8
60°	2710.2	2670.9	3050.2	3677.5	4855.0	6345.4	8586.9	10574.6	10589.7	11227.6	10340.3
62.5°	1668.7	1676.3	1919.6	2389.7	3399.4	5030.3	8325.4	12015.1	12018.1	12657.5	11851.8
65°	1091.3	1095.9	1292.3	1552.3	2123.7	3411.5	6885.0	12128.4	13011.2	13605.2	12544.1
66°	971.9	973.4	1142.7	1354.3	1759.4	2791.8	6080.8	11833.7	13234.9	13730.6	12535.0
67.5°	819.2	838.9	974.9	1138.2	1372.5	2005.8	4824.8	10981.2	13120.0	13555.3	12250.9
70°	640.9	651.5	758.8	925.0	1029.3	1160.8	2867.4	8951.2	12009.0	12714.9	11217.0
72.5°	513.9	523.0	604.6	751.2	835.9	764.8	1561.4	6495.0	9486.3	10239.0	8822.7
75°	433.8	435.3	474.6	591.0	687.7	574.4	831.3	4168.8	6086.9	6437.6	5405.2
77.5°	350.7	356.7	383.9	450.4	553.2	451.9	495.8	2335.3	3056.3	3082.0	2498.5
80°	285.7	288.7	305.3	328.0	421.7	334.0	335.6	1139.7	1310.5	1280.3	1015.7
82.5°	225.2	228.2	247.9	243.4	309.9	238.8	208.6	548.7	603.1	591.0	467.1
85°	127.0	127.0	195.0	195.0	196.5	151.2	127.0	258.5	318.9	297.8	219.2
87.5°	40.8	42.3	58.9	62.0	98.2	68.0	62.0	96.7	151.2	133.0	78.6
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°	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2	1735.2
2.5°	1771.5	1747.3	1736.7	1702.0	1692.9	1670.2	1659.6	1646.0	1641.5	1621.9	1640.0
5°	1785.1	1777.5	1735.2	1691.4	1658.1	1643.0	1620.3	1590.1	1587.1	1559.9	1556.9
7.5°	1842.5	1816.8	1742.8	1695.9	1629.4	1591.6	1541.7	1526.6	1507.0	1497.9	1517.6
10°	1931.7	1866.7	1756.4	1638.5	1556.9	1511.5	1475.2	1464.7	1466.2	1460.1	1451.1
12.5°	1995.2	1933.2	1733.7	1590.1	1484.3	1440.5	1437.5	1448.0	1464.7	1457.1	1467.7
15°	2085.9	1969.5	1717.1	1510.0	1425.4	1413.3	1411.8	1443.5	1442.0	1442.0	1440.5
17.5°	2170.5	2005.8	1656.6	1440.5	1363.4	1372.5	1383.0	1381.5	1396.6	1402.7	1413.3
20°	2277.9	2048.1	1572.0	1370.9	1316.5	1313.5	1312.0	1313.5	1328.6	1337.7	1330.1
22.5°	2371.6	2057.2	1500.9	1304.4	1260.6	1248.5	1228.9	1248.5	1241.0	1244.0	1253.0
25°	2453.2	2058.7	1399.7	1254.6	1204.7	1177.5	1162.4	1160.8	1147.2	1145.7	1145.7
27.5°	2521.2	2007.3	1310.5	1185.0	1138.2	1112.5	1111.0	1094.3	1059.6	1036.9	1039.9
30°	2574.1	1968.0	1248.5	1124.6	1079.2	1074.7	1061.1	1023.3	978.0	949.2	949.2
32.5°	2667.8	1889.4	1163.9	1062.6	1039.9	1033.9	1002.1	968.9	926.6	899.4	894.8
35°	2737.4	1816.8	1107.9	1009.7	999.1	987.0	959.8	923.5	911.4	905.4	909.9
37.5°	2816.0	1735.2	1039.9	964.3	974.9	952.3	920.5	903.9	946.2	935.6	940.2
40°	2941.4	1677.8	973.4	937.1	947.7	922.0	881.2	875.2	928.1	890.3	881.2
42.5°	3171.2	1676.3	932.6	896.3	903.9	884.2	848.0	844.9	866.1	820.8	807.2
45°	3456.8	1729.2	902.4	866.1	860.1	857.0	844.9	831.3	813.2	754.2	739.1
47.5°	3798.4	1815.3	896.3	820.8	828.3	854.0	838.9	804.1	757.3	719.5	711.9
50°	4212.6	1993.7	881.2	787.5	801.1	841.9	829.8	781.5	739.1	714.9	710.4
52.5°	4670.6	2218.9	861.6	736.1	766.3	831.3	837.4	792.0	730.1	708.9	705.9
55°	5210.2	2551.4	838.9	680.2	725.5	820.8	837.4	761.8	718.0	718.0	714.9
57.5°	6275.8	3150.0	792.0	628.8	689.3	801.1	813.2	763.3	719.5	719.5	713.4
60°	7838.7	4084.1	702.9	589.5	654.5	773.9	795.1	740.6	702.9	711.9	710.4
62.5°	9061.6	4368.3	627.3	551.7	619.7	724.0	770.9	716.5	683.2	716.5	719.5
65°	9323.0	4081.1	550.2	510.9	571.4	675.6	736.1	681.7	654.5	719.5	722.5
66°	9229.3	3857.4	523.0	498.8	550.2	651.5	714.9	669.6	639.4	716.5	718.0
67.5°	8812.2	3521.8	492.8	473.1	521.5	616.7	690.8	653.0	615.2	707.4	693.8
70°	7905.2	2986.8	441.4	427.8	480.7	559.3	634.8	610.7	577.4	651.5	627.3
72.5°	6088.4	2386.7	386.9	388.5	433.8	500.3	578.9	562.3	533.6	571.4	556.2
75°	3707.8	1525.1	337.1	340.1	377.9	444.4	526.0	513.9	479.2	500.3	492.8
77.5°	1643.0	755.8	284.2	290.2	320.4	391.5	458.0	438.3	402.1	406.6	403.6
80°	637.9	358.2	231.3	238.8	258.5	312.9	379.4	361.3	329.5	323.5	320.4
82.5°	306.8	199.5	178.4	181.4	188.9	249.4	326.5	303.8	261.5	234.3	234.3
85°	154.2	123.9	125.5	114.9	125.5	169.3	220.7	184.4	152.7	136.0	139.1
87.5°	62.0	62.0	62.0	52.9	55.9	80.1	102.8	69.5	63.5	37.8	37.8
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)