

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: P478332

Luminaire Tested: **IFLD-M-SA4A-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478332  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

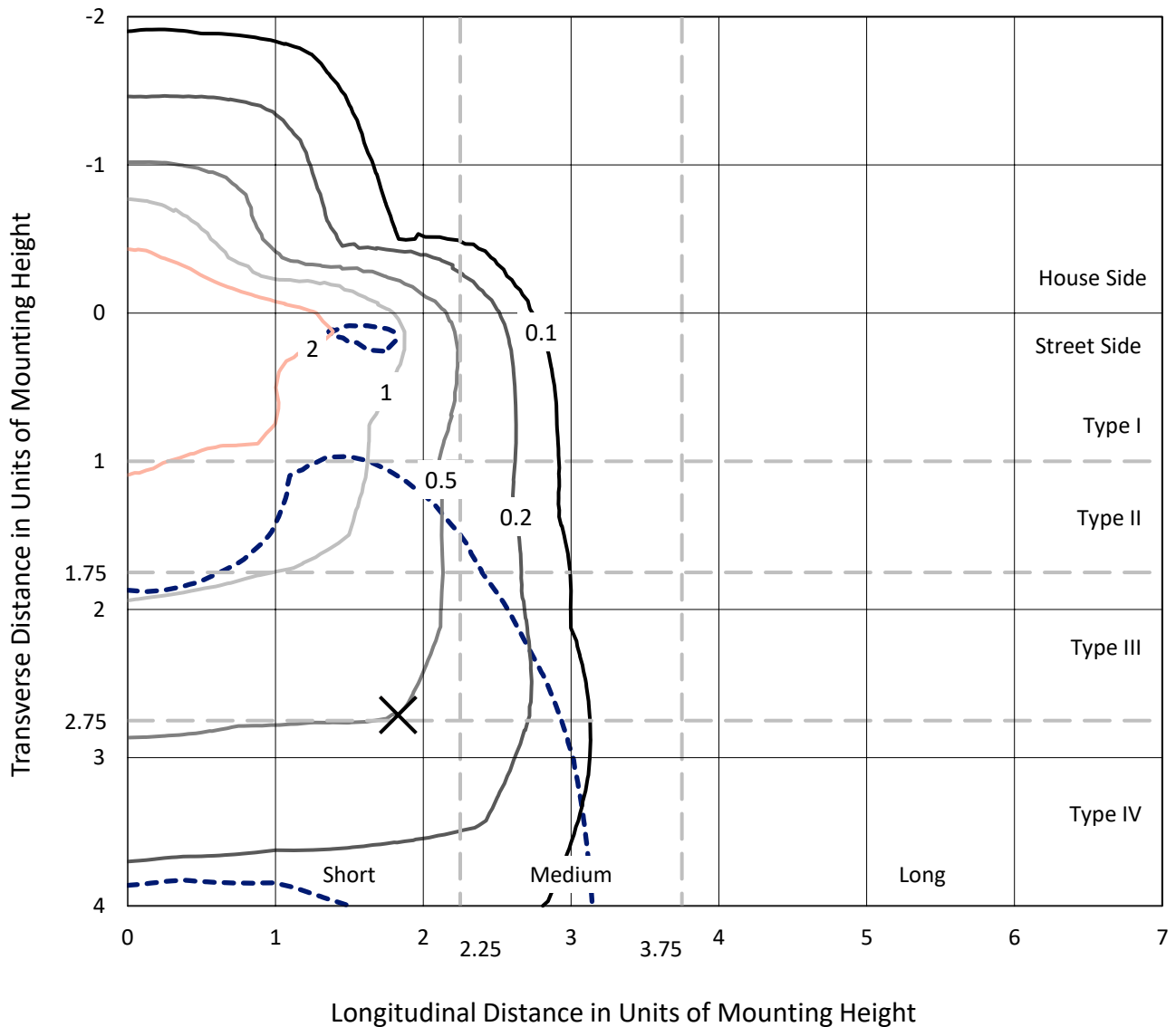
Lumens per Lamp: N/A  
Luminaire Lumens: 15033.6 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6  
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

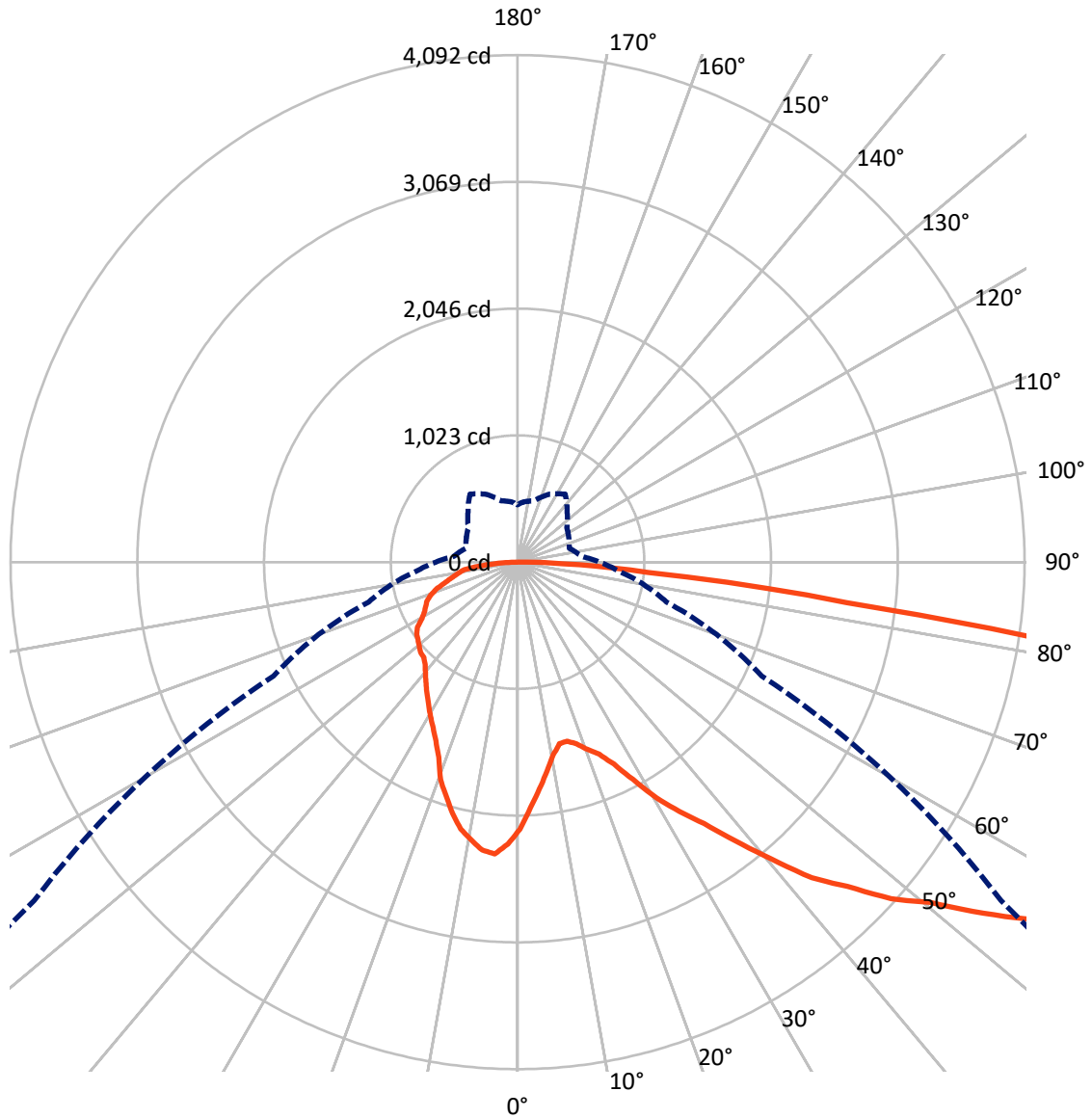
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3247.4	0.0	3247.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	11786.1	0.0	11786.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	15033.6	0.0	15033.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.9	1.3
10°-20°	556.7	3.7
20°-30°	916.3	6.1
30°-40°	1370.2	9.1
40°-50°	2031.3	13.5
50°-60°	2927.4	19.5
60°-70°	3735.7	24.8
70°-80°	2907.0	19.3
80°-90°	390.0	2.6
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°	15033.6	100.0
0°-180°	15033.6	100.0

**Coefficient of Utilization**



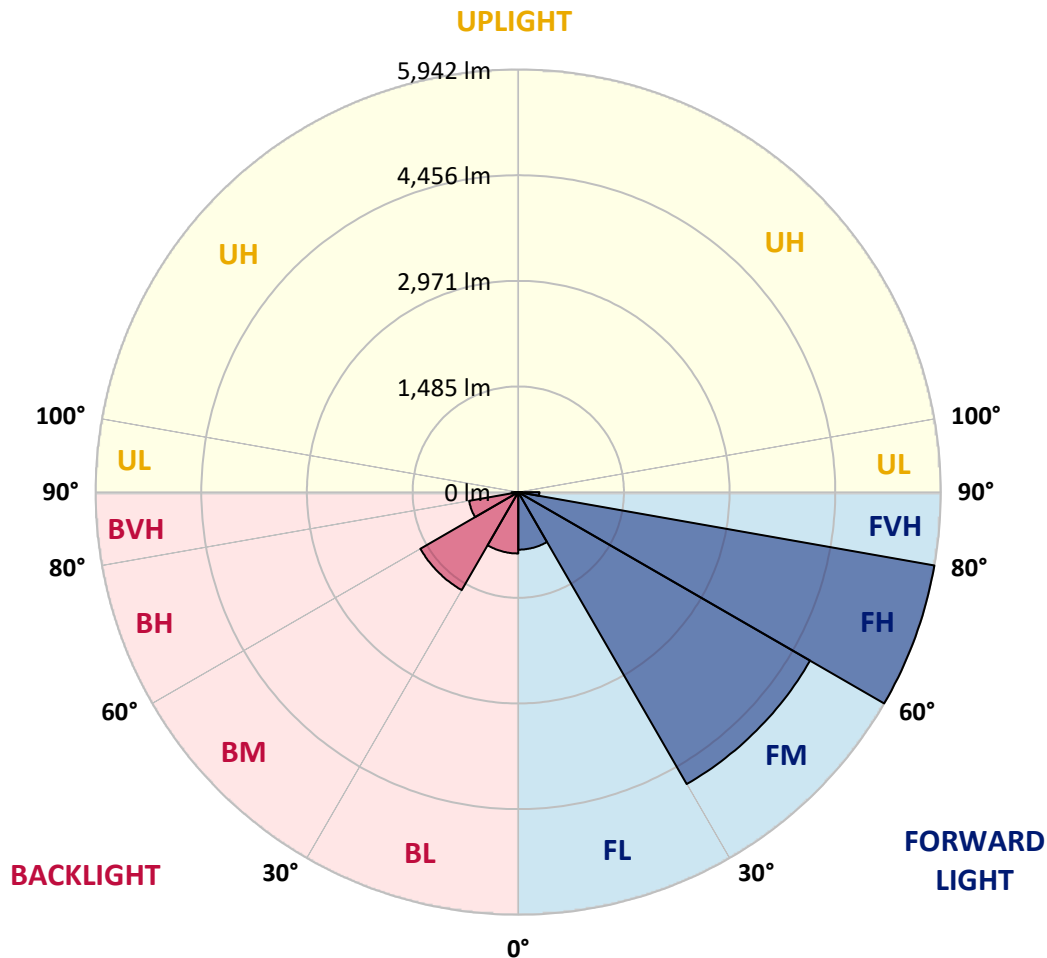
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 CATALOG NUMBER: IFLD-M-SA4A-830-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.1	5.4			
FM (30°-60°)	4738.7	31.5			
FH (60°-80°)	5941.5	39.5			G3/7500
FVH (80°-90°)	296.8	2.0			G3/500
BL (0°-30°)	862.8	5.7	B2/1000		
BM (30°-60°)	1590.3	10.6	B2/2500		
BH (60°-80°)	701.2	4.7	B2/1000		G2/1000
BVH (80°-90°)	93.1	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3
2.5°	1931.2	1937.5	1958.2	1963.0	1985.2	1972.5	1999.5	2047.2	2074.2	2114.0	2161.7
5°	1778.6	1751.6	1764.3	1813.6	1839.0	1845.4	1874.0	1955.0	2005.9	2064.7	2153.7
7.5°	1599.0	1594.2	1619.7	1651.4	1702.3	1707.1	1770.6	1842.2	1947.1	2077.4	2182.3
10°	1476.6	1497.3	1511.6	1544.9	1579.9	1579.9	1661.0	1785.0	1904.2	2029.7	2188.7
12.5°	1470.2	1457.5	1460.7	1478.2	1503.6	1535.4	1611.7	1723.0	1874.0	2020.2	2215.7
15°	1490.9	1495.7	1467.1	1489.3	1498.9	1510.0	1594.2	1719.8	1854.9	2053.6	2261.8
17.5°	1600.6	1573.6	1529.1	1508.4	1541.8	1541.8	1599.0	1697.5	1858.1	2071.1	2328.5
20°	1686.4	1686.4	1613.3	1591.0	1614.9	1610.1	1649.9	1723.0	1874.0	2106.0	2403.3
22.5°	1831.0	1851.7	1730.9	1684.8	1683.2	1695.9	1730.9	1792.9	1918.5	2155.3	2474.8
25°	2039.3	2044.0	1904.2	1856.5	1805.6	1826.3	1832.6	1894.6	1958.2	2212.5	2555.8
27.5°	2271.3	2268.1	2139.4	2020.2	1986.8	1991.6	1956.6	1997.9	2017.0	2230.0	2671.9
30°	2528.8	2500.2	2403.3	2234.8	2207.7	2177.5	2101.3	2099.7	2139.4	2328.5	2832.4
32.5°	2697.3	2660.7	2594.0	2473.2	2398.5	2401.7	2280.9	2279.3	2244.3	2436.6	2972.3
35°	2862.6	2807.0	2789.5	2665.5	2590.8	2598.8	2501.8	2489.1	2425.5	2600.3	3202.7
37.5°	3061.3	3012.0	3039.0	2945.3	2853.1	2814.9	2770.4	2754.5	2671.9	2830.8	3517.5
40°	3280.6	3264.7	3247.3	3201.2	3145.5	3148.7	3101.0	3085.1	2962.7	3109.0	3819.5
42.5°	3576.3	3515.9	3425.3	3455.5	3484.1	3514.3	3498.4	3457.1	3329.9	3391.9	4156.4
45°	3851.2	3771.8	3604.9	3614.4	3732.0	3755.9	3948.2	3943.4	3687.5	3751.1	4539.5
47.5°	4037.2	4000.7	3900.5	3889.4	4057.9	4056.3	4402.8	4402.8	4064.2	4108.7	4951.1
50°	4313.8	4218.4	4175.5	4231.1	4317.0	4375.8	4866.9	4897.1	4434.6	4482.3	5490.0
52.5°	4638.0	4518.8	4410.7	4553.8	4706.4	4744.5	5326.3	5313.5	4719.1	4916.2	6121.0
55°	4906.6	4846.2	4771.5	4854.2	5103.7	5151.4	5787.2	5669.6	5003.6	5275.4	6424.6
57.5°	5219.8	5256.3	5272.2	5251.5	5548.8	5623.5	6313.3	5976.3	5248.4	5517.0	6602.6
60°	5691.8	5714.1	5734.7	5784.0	6098.7	6203.6	6729.7	6361.0	5402.5	5656.9	6616.9
62.5°	6410.3	6324.4	6370.5	6540.6	6793.3	6912.5	7343.3	6631.2	5520.2	5741.1	6149.6
65°	7232.0	7116.0	7068.3	7287.6	7942.5	7847.1	8109.4	6833.1	5350.1	5426.4	5215.0
67.5°	8064.9	8077.6	7955.2	8395.5	9198.2	9198.2	8821.5	6930.0	4889.2	4398.0	3657.3
70°	8726.1	8765.8	8832.6	9686.1	10957.7	11150.0	9703.6	6532.6	3949.8	2927.8	1999.5
72.5°	8716.6	8597.3	8939.1	10511.0	12556.7	12396.1	9888.0	5165.7	2465.2	1433.7	917.1
73°	8521.1	8420.9	8794.4	10503.1	12621.8	12470.8	9752.9	4762.0	2174.4	1243.0	815.4
75°	6958.6	6777.4	7413.2	9512.9	11677.7	11793.7	8285.8	3105.8	1192.1	766.1	573.8
77.5°	3172.5	3252.0	4080.1	6381.6	8999.5	9136.2	5447.1	1343.1	653.3	537.2	422.8
80°	1018.8	1069.7	1587.9	3172.5	5641.0	5887.3	2517.7	610.3	465.7	411.7	316.3
82.5°	389.4	387.8	666.0	1319.2	2673.5	2830.8	920.3	371.9	346.5	303.6	224.1
85°	136.7	143.1	251.1	521.3	1052.2	1101.5	319.5	206.6	240.0	203.4	128.7
87.5°	47.7	49.3	89.0	189.1	362.4	383.1	89.0	82.7	119.2	117.6	65.2
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°	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3
2.5°	2177.5	2191.9	2196.6	2253.8	2253.8	2253.8	2276.1	2276.1	2269.7	2253.8	2292.0
5°	2187.1	2212.5	2261.8	2311.1	2323.8	2334.9	2365.1	2339.7	2349.2	2333.3	2347.6
7.5°	2214.1	2249.1	2341.3	2371.5	2350.8	2374.6	2342.9	2325.4	2307.9	2314.2	2292.0
10°	2260.2	2304.7	2347.6	2403.3	2363.5	2339.7	2274.5	2258.6	2203.0	2183.9	2201.4
12.5°	2317.4	2371.5	2444.6	2423.9	2347.6	2279.3	2209.3	2142.6	2109.2	2061.5	2074.2
15°	2374.6	2436.6	2447.8	2412.8	2317.4	2231.6	2104.4	2010.7	1977.3	1934.4	1956.6
17.5°	2436.6	2495.4	2476.4	2385.8	2257.0	2126.7	1982.0	1889.9	1819.9	1792.9	1792.9
20°	2528.8	2557.4	2527.2	2341.3	2183.9	2012.2	1872.4	1767.5	1697.5	1686.4	1668.9
22.5°	2600.3	2646.4	2511.3	2276.1	2077.4	1862.8	1702.3	1662.6	1641.9	1624.4	1602.2
25°	2692.5	2690.9	2482.7	2215.7	1894.6	1684.8	1587.9	1584.7	1575.1	1568.8	1599.0
27.5°	2780.0	2743.4	2449.3	2066.3	1705.5	1549.7	1497.3	1532.2	1546.5	1537.0	1549.7
30°	2918.2	2857.8	2401.7	1907.3	1538.6	1413.0	1422.6	1470.2	1494.1	1508.4	1489.3
32.5°	3064.5	2972.3	2303.1	1742.0	1390.8	1327.2	1349.4	1398.7	1427.3	1443.2	1460.7
35°	3275.9	3061.3	2203.0	1525.9	1284.3	1274.7	1287.5	1314.5	1355.8	1366.9	1371.7
37.5°	3536.5	3196.4	2067.9	1352.6	1201.6	1212.8	1225.5	1235.0	1236.6	1257.3	1249.3
40°	3797.2	3310.8	1870.8	1187.3	1115.8	1176.2	1169.8	1152.4	1138.0	1119.0	1114.2
42.5°	4026.1	3411.0	1651.4	1047.4	1039.5	1138.0	1117.4	1072.9	1039.5	1025.2	1001.4
45°	4283.6	3552.4	1430.5	960.0	980.7	1092.0	1085.6	1017.2	974.3	923.5	917.1
47.5°	4617.4	3700.2	1219.1	869.4	925.1	1074.5	1077.6	990.2	928.2	859.9	850.4
50°	5044.9	3913.2	1058.6	831.3	891.7	1049.0	1053.8	953.7	872.6	802.7	796.3
52.5°	5455.0	4131.0	925.1	772.5	869.4	1018.8	1030.0	920.3	826.5	739.1	743.9
55°	5661.6	4051.5	810.6	729.6	818.6	969.6	1010.9	896.5	756.6	696.2	694.6
57.5°	5707.7	3856.0	720.0	685.1	775.7	917.1	979.1	824.9	724.8	673.9	667.6
60°	5556.7	3514.3	648.5	637.4	721.6	863.1	906.0	786.8	693.0	651.7	642.1
62.5°	5184.8	3159.8	599.2	615.1	675.5	804.3	859.9	759.8	662.8	634.2	613.5
65°	4251.8	2598.8	559.5	572.2	627.8	747.0	831.3	729.6	635.8	608.8	607.2
67.5°	2945.3	1791.3	527.7	551.5	589.7	705.7	802.7	696.2	600.8	591.3	578.6
70°	1508.4	955.3	486.4	505.4	548.4	653.3	751.8	661.2	564.3	562.7	546.8
72.5°	764.5	559.5	438.7	467.3	497.5	584.9	688.2	615.1	518.2	500.7	475.2
73°	661.2	518.2	430.7	456.2	484.8	565.8	669.2	604.0	511.8	486.4	462.5
75°	481.6	408.5	386.2	411.7	433.9	510.2	605.6	553.1	470.5	443.5	421.2
77.5°	360.8	314.7	321.1	349.7	368.8	440.3	538.8	500.7	426.0	389.4	379.9
80°	265.4	240.0	265.4	292.5	306.8	387.8	491.1	433.9	359.2	317.9	309.9
82.5°	189.1	174.8	205.0	222.5	228.9	321.1	441.9	346.5	271.8	217.8	200.3
85°	108.1	106.5	138.3	136.7	141.5	187.6	290.9	230.5	174.8	133.5	130.3
87.5°	47.7	52.5	69.9	55.6	58.8	89.0	124.0	85.8	71.5	39.7	30.2
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)