

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: P478467

Luminaire Tested: **IFLD-S-SA2E-730-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478467  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-730-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

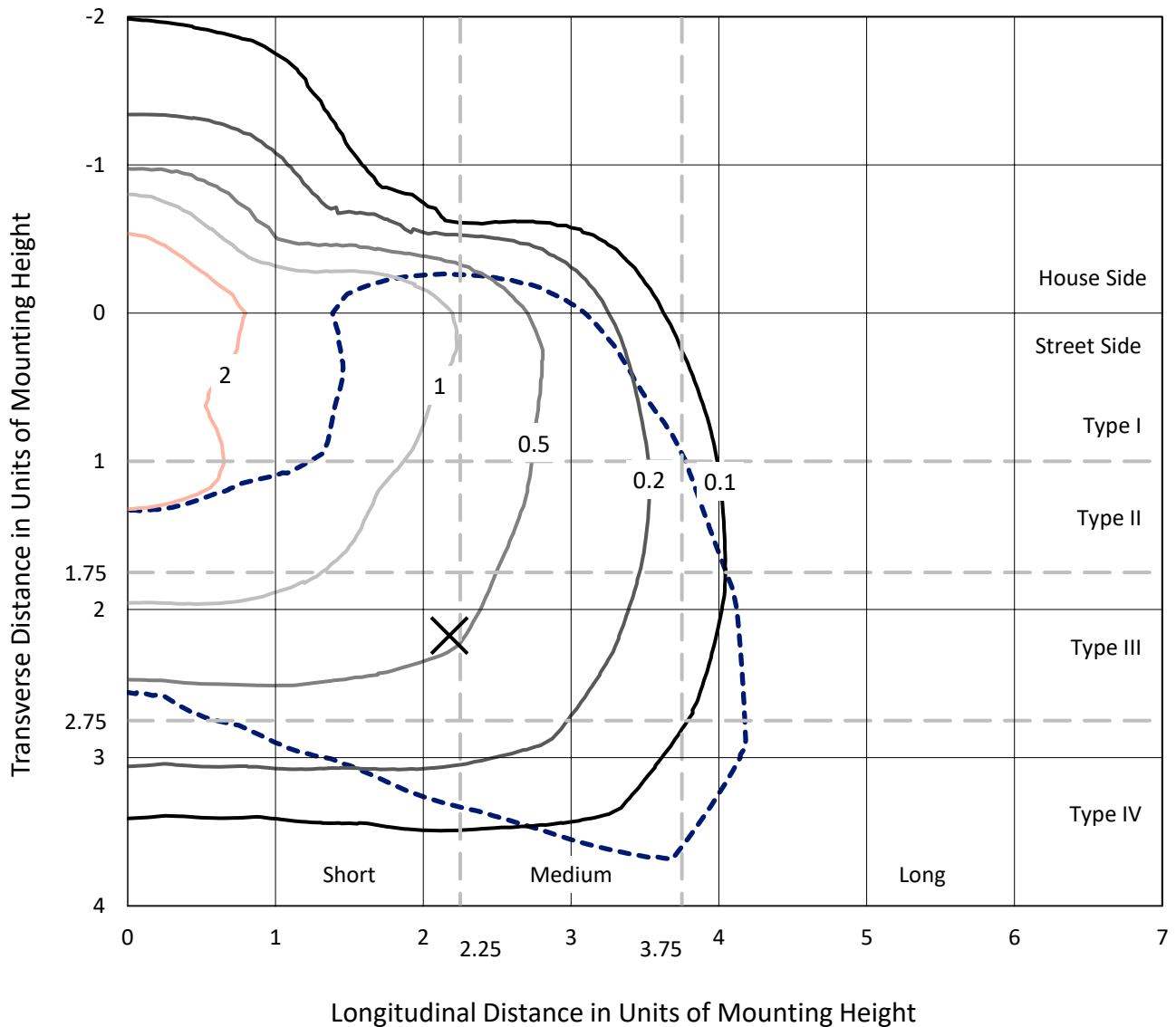
Lumens per Lamp: N/A  
Luminaire Lumens: 16658.9 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2  
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

REPORT NUMBER: P478467  
 CATALOG NUMBER: IFLD-S-SA2E-730-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

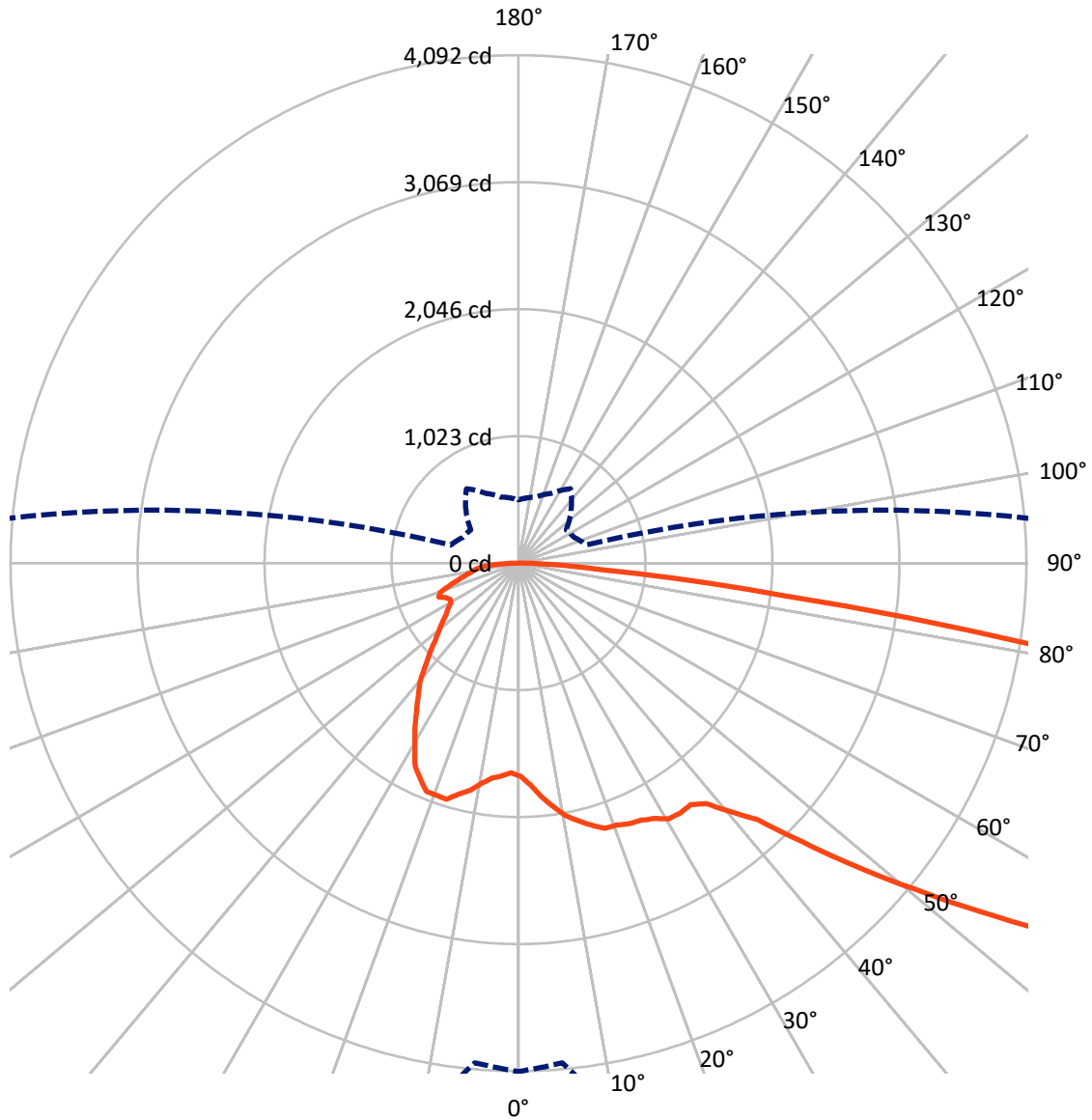
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478467  
CATALOG NUMBER: IFLD-S-SA2E-730-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P478467  
 CATALOG NUMBER: IFLD-S-SA2E-730-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3708.4	0.0	3708.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	12950.6	0.0	12950.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	16658.9	0.0	16658.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.1
10°-20°	584.1	3.5
20°-30°	986.3	5.9
30°-40°	1364.9	8.2
40°-50°	1952.4	11.7
50°-60°	3149.0	18.9
60°-70°	4644.3	27.9
70°-80°	3372.5	20.2
80°-90°	429.9	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°	16658.9	100.0
0°-180°	16658.9	100.0

**Coefficient of Utilization**



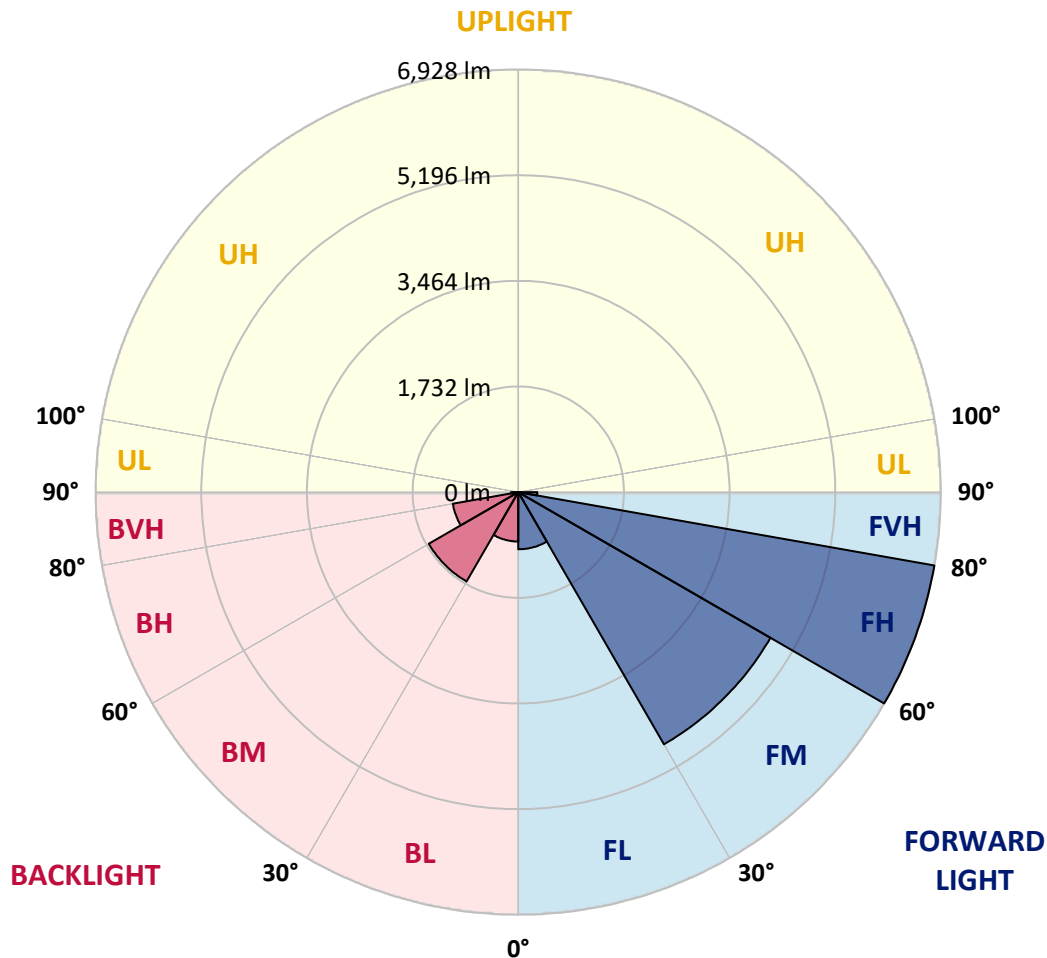
REPORT NUMBER: P478467  
 CATALOG NUMBER: IFLD-S-SA2E-730-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.2	5.6			
FM (30°-60°)	4773.9	28.7			
FH (60°-80°)	6927.5	41.6			G3/7500
FVH (80°-90°)	312.9	1.9			G3/500
BL (0°-30°)	809.7	4.9	B2/1000		
BM (30°-60°)	1692.4	10.2	B2/2500		
BH (60°-80°)	1089.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	117.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





REPORT NUMBER: P478467

CATALOG NUMBER: IFLD-S-SA2E-730-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1807.2	1818.0	1807.2	1805.4	1787.4	1774.9	1785.6	1769.5	1751.5	1744.3	1728.1
5°	1972.5	1974.3	1954.5	1956.3	1918.6	1879.0	1886.2	1837.7	1785.6	1765.9	1733.5
7.5°	2141.3	2121.6	2092.8	2083.8	2024.6	1981.4	1976.0	1932.9	1852.1	1807.2	1762.3
10°	2250.9	2258.1	2211.4	2171.9	2121.6	2069.5	2067.7	1986.8	1940.1	1873.7	1816.2
12.5°	2347.9	2349.7	2310.2	2247.3	2184.4	2119.8	2128.7	2092.8	2013.8	1950.9	1893.4
15°	2423.4	2412.6	2369.5	2312.0	2245.5	2195.2	2189.8	2159.3	2092.8	2040.7	1945.5
17.5°	2444.9	2439.5	2396.4	2335.3	2270.7	2232.9	2247.3	2197.0	2170.1	2123.4	2031.7
20°	2403.6	2391.0	2383.8	2315.6	2268.9	2265.3	2252.7	2263.5	2218.6	2175.5	2109.0
22.5°	2328.1	2322.8	2319.2	2265.3	2243.7	2259.9	2281.4	2297.6	2290.4	2249.1	2173.7
25°	2250.9	2276.0	2252.7	2227.5	2258.1	2299.4	2294.0	2346.1	2346.1	2333.5	2270.7
27.5°	2304.8	2288.6	2270.7	2258.1	2268.9	2333.5	2329.9	2392.8	2416.2	2392.8	2321.0
30°	2439.5	2423.4	2371.3	2315.6	2301.2	2371.3	2389.2	2444.9	2455.7	2398.2	2337.1
32.5°	2692.8	2683.8	2601.2	2437.7	2349.7	2389.2	2398.2	2461.1	2452.1	2416.2	2391.0
35°	3068.3	3037.7	2922.8	2646.1	2452.1	2412.6	2389.2	2439.5	2473.7	2455.7	2432.3
37.5°	3479.6	3445.5	3303.6	2953.3	2637.1	2475.5	2457.5	2498.8	2538.3	2529.3	2480.8
40°	3873.1	3873.1	3745.5	3337.7	2912.0	2628.1	2631.7	2585.0	2621.0	2604.8	2613.8
42.5°	4261.1	4246.7	4194.6	3788.6	3206.6	2883.2	2825.8	2709.0	2773.7	2768.3	2780.8
45°	4654.5	4643.7	4629.3	4209.0	3628.7	3228.1	3197.6	2987.4	3046.7	3021.6	3075.5
47.5°	4968.9	4981.4	4981.4	4677.8	4079.6	3688.0	3643.1	3310.8	3424.0	3436.5	3449.1
50°	5236.5	5241.9	5236.5	5125.2	4582.6	4214.4	4122.8	3785.0	3898.2	3997.0	4112.0
52.5°	5606.6	5613.8	5588.6	5545.5	5265.3	4767.7	4665.3	4289.8	4521.6	4625.8	4832.3
55°	6062.9	6009.0	5962.3	5994.6	5921.0	5376.7	5270.7	4810.8	5159.3	5297.6	5710.8
57.5°	6147.3	6194.0	6312.6	6569.5	6675.5	5969.5	5908.4	5450.3	5879.6	6000.0	6689.8
60°	6445.5	6368.3	6659.3	7216.2	7334.7	6741.9	6679.0	6150.9	6596.4	6722.2	7593.4
62.5°	6641.3	6637.7	7068.9	7729.9	7999.4	7543.1	7415.6	7061.7	7370.7	7492.8	8577.9
65°	6583.8	6635.9	7401.2	8031.7	8554.5	8453.9	8380.2	7844.9	8252.7	8241.9	9219.2
67.5°	6059.3	6206.6	7191.0	8249.1	9380.8	9564.1	9540.7	8946.1	8969.5	8741.3	9504.8
70°	5331.7	5281.4	6301.8	8022.8	9794.0	10880.8	10875.5	9765.3	9614.4	8850.9	8685.6
72°	4095.8	4040.1	4879.0	6889.2	9576.7	11407.2	11568.9	10332.9	9607.2	8396.4	7174.9
72.5°	3718.6	3670.1	4505.4	6485.0	9335.9	11543.7	11468.3	10354.5	9531.7	8182.6	6702.4
75°	1712.0	1656.3	2250.9	3970.1	7282.6	10228.7	10485.6	9689.8	8324.6	6513.8	4015.0
77.5°	510.2	494.0	724.0	1602.4	4232.3	7535.9	7634.7	7311.4	5811.4	3567.7	1489.2
80°	283.8	285.6	373.7	600.0	1861.1	4356.3	4712.0	4516.2	2850.9	1178.4	495.8
82.5°	158.1	167.1	233.5	355.7	855.1	1999.4	2152.1	2074.9	1031.1	553.3	271.3
85°	82.6	86.2	122.2	190.4	485.0	632.3	650.3	697.0	535.3	377.2	145.5
87.5°	32.3	32.3	44.9	79.0	179.6	195.8	176.0	213.8	307.2	244.3	71.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478467

CATALOG NUMBER: IFLD-S-SA2E-730-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6	1715.6
2.5°	1742.5	1728.1	1726.3	1703.0	1710.2	1690.4	1692.2	1688.6	1690.4	1686.8	1677.8
5°	1733.5	1722.8	1692.2	1712.0	1694.0	1719.2	1738.9	1731.7	1737.1	1735.3	1737.1
7.5°	1746.1	1731.7	1728.1	1717.4	1733.5	1744.3	1760.5	1805.4	1801.8	1807.2	1818.0
10°	1783.8	1767.7	1756.9	1773.1	1764.1	1798.2	1816.2	1839.5	1880.8	1882.6	1861.1
12.5°	1857.5	1846.7	1825.2	1828.7	1859.3	1870.1	1880.8	1895.2	1922.2	1916.8	1936.5
15°	1941.9	1918.6	1906.0	1902.4	1909.6	1922.2	1920.4	1934.7	1949.1	1961.7	1956.3
17.5°	2003.0	1972.5	1976.0	1994.0	1992.2	1988.6	1965.3	1958.1	1965.3	1972.5	1968.9
20°	2065.9	2069.5	2042.5	2026.3	2019.2	1983.2	1965.3	1943.7	1922.2	1932.9	1949.1
22.5°	2144.9	2128.7	2089.2	2040.7	2004.8	1983.2	1927.5	1889.8	1889.8	1900.6	1895.2
25°	2234.7	2200.6	2132.3	2044.3	1999.4	1907.8	1868.3	1862.9	1848.5	1864.7	1871.9
27.5°	2304.8	2274.3	2180.8	2031.7	1907.8	1834.1	1810.8	1803.6	1826.9	1828.7	1857.5
30°	2333.5	2324.6	2188.0	1999.4	1814.4	1695.8	1681.4	1713.8	1738.9	1776.6	1778.4
32.5°	2371.3	2374.9	2198.8	1924.0	1692.2	1573.7	1552.1	1591.6	1663.5	1694.0	1717.4
35°	2434.1	2452.1	2189.8	1830.5	1562.9	1449.7	1446.1	1456.9	1526.9	1580.8	1611.4
37.5°	2543.7	2540.1	2188.0	1719.2	1460.5	1341.9	1313.2	1316.8	1363.5	1408.4	1403.0
40°	2691.0	2676.6	2182.6	1573.7	1327.5	1250.3	1201.8	1183.8	1180.2	1167.7	1171.3
42.5°	2892.2	2863.5	2180.8	1426.3	1207.2	1124.6	1090.4	1043.7	1009.6	944.9	948.5
45°	3172.5	3122.2	2134.1	1288.0	1088.6	1020.4	968.3	934.1	860.5	779.6	779.6
47.5°	3605.4	3441.9	2135.9	1135.3	973.7	918.0	882.0	822.8	743.7	679.0	671.9
50°	4243.1	3869.5	2074.9	1015.0	880.2	842.5	804.8	736.5	661.1	616.2	621.6
52.5°	5065.9	4507.2	2073.1	907.2	806.6	779.6	738.3	677.2	621.6	592.8	582.0
55°	6046.7	5351.5	2137.7	819.2	731.1	716.8	698.8	648.5	594.6	569.5	567.7
57.5°	7050.9	6176.1	2241.9	756.3	666.5	677.2	664.7	625.2	582.0	553.3	549.7
60°	7943.7	6829.9	2031.7	680.8	609.0	632.3	650.3	616.2	592.8	591.0	578.4
62.5°	8617.4	7110.2	1544.9	623.4	578.4	621.6	670.1	691.6	680.8	695.2	697.0
65°	8863.5	6941.3	1063.5	592.8	555.1	646.7	754.5	747.3	684.4	657.5	671.9
67.5°	8518.6	6256.9	788.6	556.9	538.9	698.8	803.0	713.2	618.0	614.4	603.6
70°	7325.8	5303.0	643.1	519.2	512.0	670.1	781.4	661.1	582.0	558.7	547.9
72°	5836.5	4129.9	564.1	492.2	468.9	598.2	731.1	619.8	551.5	522.8	510.2
72.5°	5328.1	3828.1	553.3	479.6	459.9	582.0	706.0	607.2	544.3	519.2	499.4
75°	2922.8	1959.9	486.8	440.1	388.0	503.0	653.9	569.5	513.8	477.8	474.3
77.5°	1086.8	759.9	420.4	389.8	335.9	434.7	594.6	540.7	467.1	422.2	413.2
80°	416.8	400.6	343.1	328.7	282.0	380.8	547.9	485.0	397.0	352.1	337.7
82.5°	253.3	233.5	260.5	256.9	215.6	346.7	515.6	454.5	352.1	285.6	276.6
85°	138.3	138.3	181.4	174.3	150.9	276.6	389.8	301.8	222.8	183.2	186.8
87.5°	61.1	71.9	97.0	91.6	82.6	156.3	190.4	159.9	111.4	75.4	80.8
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)