

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: P478466

Luminaire Tested: **IFLD-S-SA2D-730-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478466  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-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**

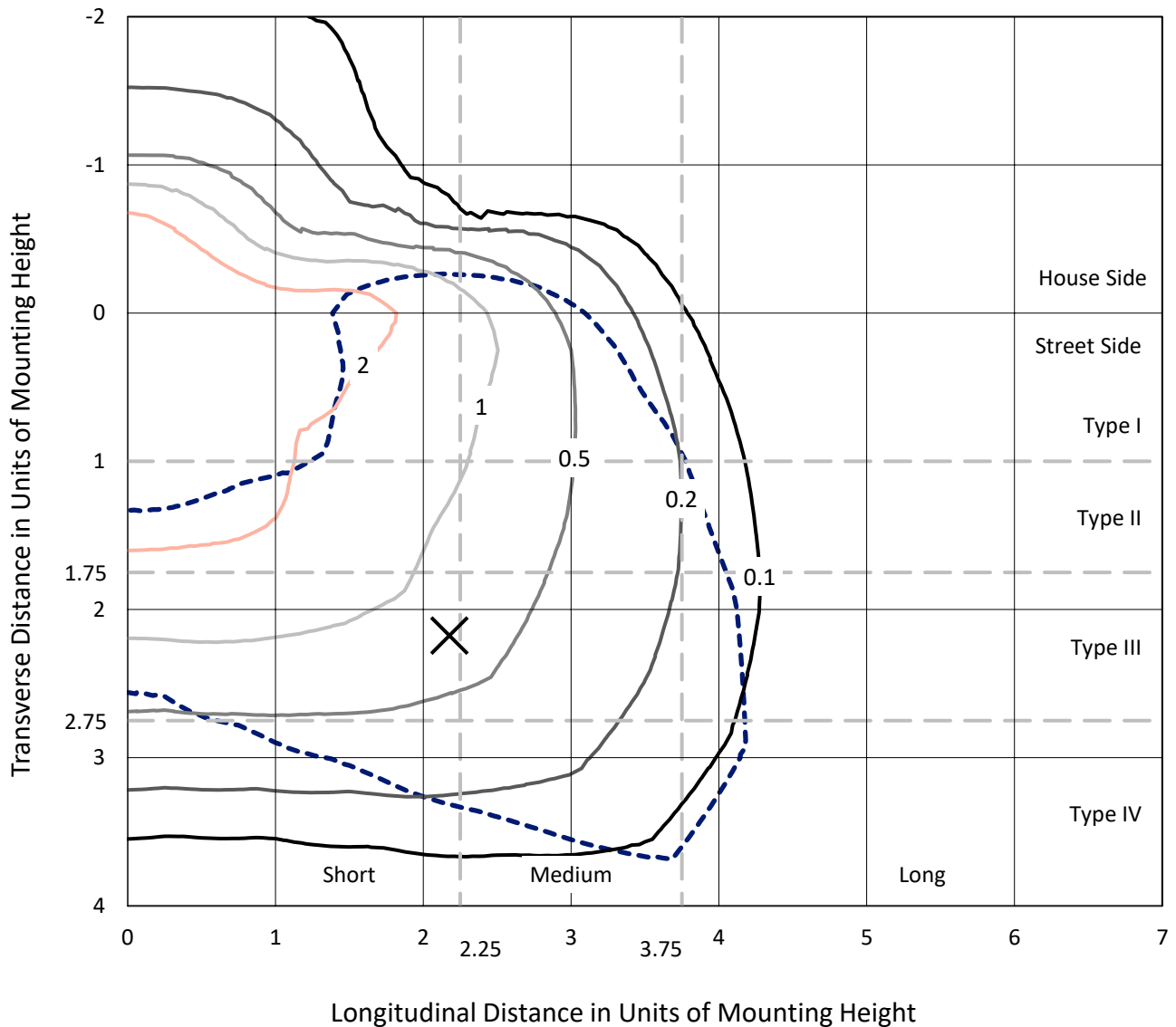
Lumens per Lamp: N/A  
Luminaire Lumens: 14394.9 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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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 CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

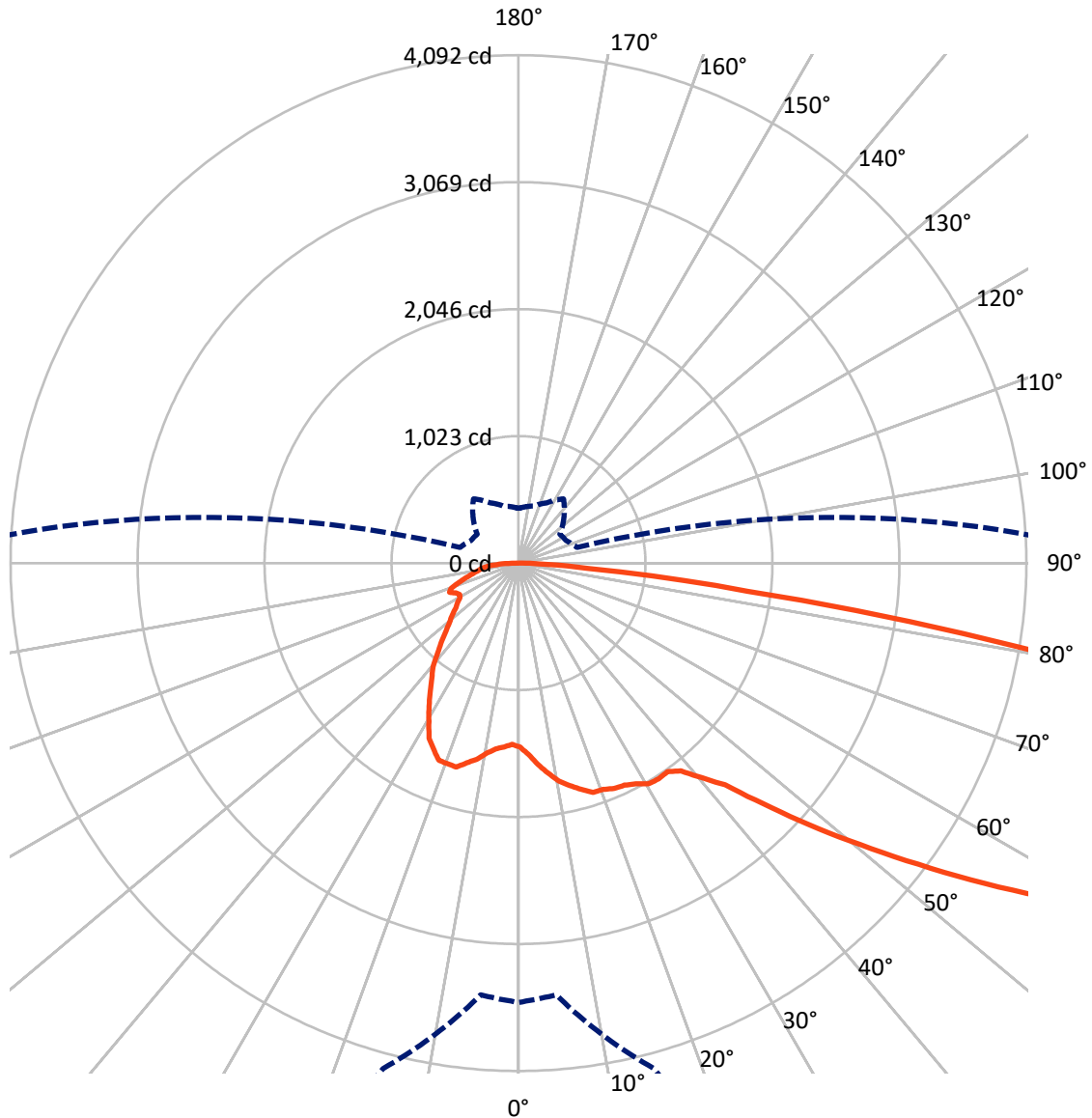
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P478466  
CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W

### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3204.4	0.0	3204.4
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	11190.5	0.0	11190.5
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	14394.9	0.0	14394.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.7	1.1
10°-20°	504.7	3.5
20°-30°	852.3	5.9
30°-40°	1179.4	8.2
40°-50°	1687.0	11.7
50°-60°	2721.0	18.9
60°-70°	4013.1	27.9
70°-80°	2914.2	20.2
80°-90°	371.5	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°	14394.9	100.0
0°-180°	14394.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P478466

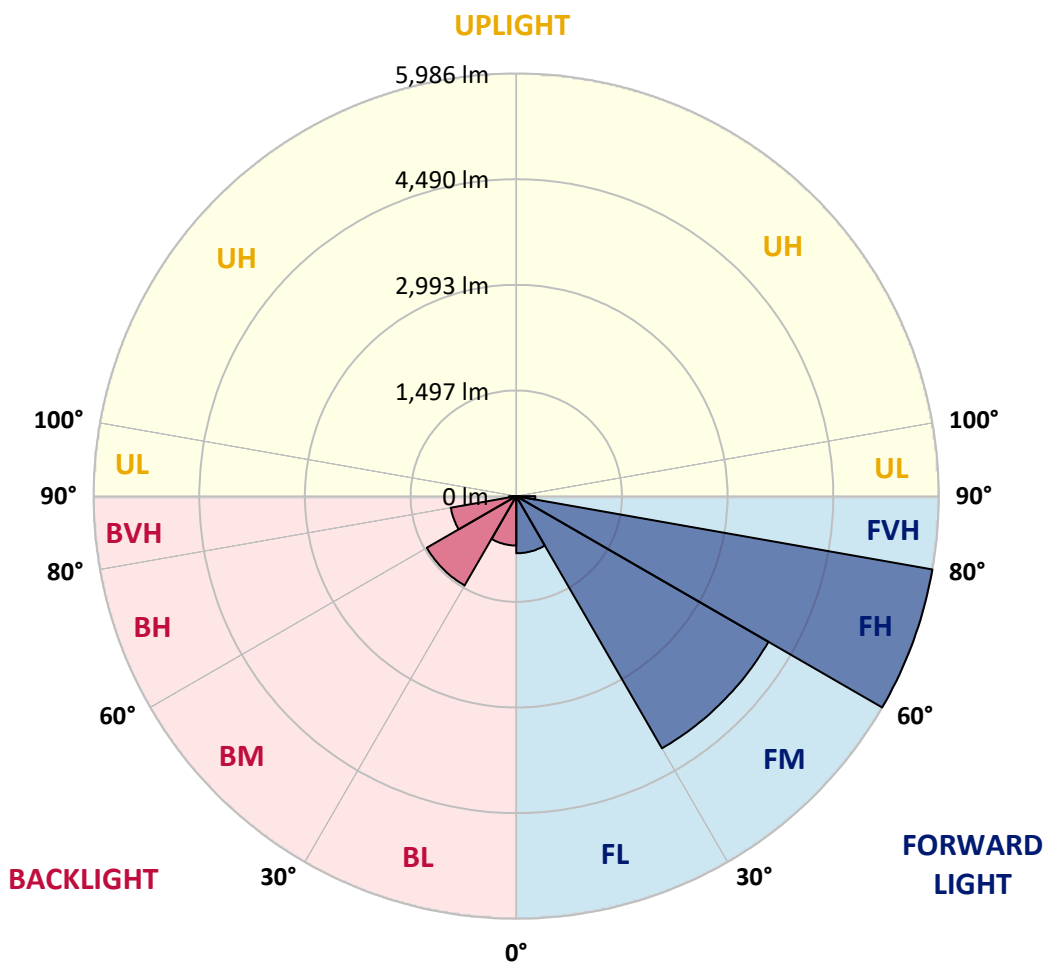
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.0	5.6			
FM (30°-60°)	4125.1	28.7			
FH (60°-80°)	5986.0	41.6			G3/7500
FVH (80°-90°)	270.4	1.9			G3/500
BL (0°-30°)	699.7	4.9	B2/1000		
BM (30°-60°)	1462.4	10.2	B2/2500		
BH (60°-80°)	941.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	101.1	0.7			G2/225
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





REPORT NUMBER: P478466

CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1561.6	1570.9	1561.6	1560.0	1544.5	1533.6	1542.9	1529.0	1513.5	1507.2	1493.3
5°	1704.4	1705.9	1688.9	1690.4	1657.8	1623.7	1629.9	1588.0	1542.9	1525.9	1497.9
7.5°	1850.3	1833.2	1808.4	1800.6	1749.4	1712.1	1707.5	1670.2	1600.4	1561.6	1522.8
10°	1945.0	1951.2	1910.8	1876.7	1833.2	1788.2	1786.7	1716.8	1676.4	1619.0	1569.3
12.5°	2028.8	2030.4	1996.2	1941.9	1887.6	1831.7	1839.4	1808.4	1740.1	1685.8	1636.1
15°	2094.0	2084.7	2047.4	1997.8	1940.3	1896.9	1892.2	1865.8	1808.4	1763.4	1681.1
17.5°	2112.6	2108.0	2070.7	2017.9	1962.1	1929.5	1941.9	1898.4	1875.1	1834.8	1755.6
20°	2076.9	2066.1	2059.9	2000.9	1960.5	1957.4	1946.5	1955.9	1917.0	1879.8	1822.4
22.5°	2011.7	2007.1	2004.0	1957.4	1938.8	1952.7	1971.4	1985.3	1979.1	1943.4	1878.2
25°	1945.0	1966.7	1946.5	1924.8	1951.2	1986.9	1982.2	2027.3	2027.3	2016.4	1962.1
27.5°	1991.6	1977.6	1962.1	1951.2	1960.5	2016.4	2013.3	2067.6	2087.8	2067.6	2005.5
30°	2108.0	2094.0	2049.0	2000.9	1988.4	2049.0	2064.5	2112.6	2121.9	2072.3	2019.5
32.5°	2326.8	2319.1	2247.7	2106.4	2030.4	2064.5	2072.3	2126.6	2118.8	2087.8	2066.1
35°	2651.3	2624.9	2525.5	2286.5	2118.8	2084.7	2064.5	2108.0	2137.5	2121.9	2101.8
37.5°	3006.7	2977.2	2854.6	2551.9	2278.7	2139.0	2123.5	2159.2	2193.3	2185.6	2143.7
40°	3346.7	3346.7	3236.5	2884.1	2516.2	2271.0	2274.1	2233.7	2264.8	2250.8	2258.5
42.5°	3682.0	3669.5	3624.5	3273.7	2770.8	2491.4	2441.7	2340.8	2396.7	2392.0	2402.9
45°	4021.9	4012.6	4000.2	3637.0	3135.6	2789.4	2763.0	2581.4	2632.6	2610.9	2657.5
47.5°	4293.6	4304.4	4304.4	4042.1	3525.2	3186.8	3148.0	2860.8	2958.6	2969.5	2980.3
50°	4524.8	4529.5	4524.8	4428.6	3959.8	3641.6	3562.4	3270.6	3368.4	3453.8	3553.1
52.5°	4844.6	4850.8	4829.1	4791.8	4549.7	4119.7	4031.2	3706.8	3907.0	3997.1	4175.6
55°	5238.9	5192.3	5152.0	5179.9	5116.3	4645.9	4554.3	4157.0	4458.1	4577.6	4934.6
57.5°	5311.8	5352.2	5454.7	5676.6	5768.2	5158.2	5105.4	4709.6	5080.6	5184.6	5780.6
60°	5569.5	5502.8	5754.2	6235.4	6337.9	5825.6	5771.3	5314.9	5699.9	5808.6	6561.4
62.5°	5738.7	5735.6	6108.2	6679.4	6912.2	6518.0	6407.7	6101.9	6368.9	6474.5	7412.1
65°	5689.0	5734.1	6395.3	6940.2	7391.9	7304.9	7241.3	6778.7	7131.1	7121.8	7966.2
67.5°	5235.8	5363.1	6213.7	7128.0	8105.9	8264.2	8244.1	7730.3	7750.4	7553.3	8213.0
70°	4607.1	4563.7	5445.3	6932.4	8462.9	9402.1	9397.4	8438.1	8307.7	7648.0	7505.2
72°	3539.2	3491.0	4215.9	5952.9	8275.1	9856.9	9996.6	8928.6	8301.5	7255.3	6199.7
72.5°	3213.2	3171.3	3893.1	5603.7	8067.1	9974.8	9909.6	8947.2	8236.3	7070.6	5791.5
75°	1479.3	1431.2	1945.0	3430.5	6292.9	8838.6	9060.6	8372.9	7193.2	5628.5	3469.3
77.5°	440.8	426.9	625.6	1384.6	3657.1	6511.7	6597.1	6317.7	5021.6	3082.8	1286.8
80°	245.3	246.8	322.9	518.5	1608.1	3764.2	4071.6	3902.4	2463.4	1018.3	428.4
82.5°	136.6	144.4	201.8	307.3	738.9	1727.7	1859.6	1792.9	891.0	478.1	234.4
85°	71.4	74.5	105.6	164.5	419.1	546.4	561.9	602.3	462.6	326.0	125.7
87.5°	27.9	27.9	38.8	68.3	155.2	169.2	152.1	184.7	265.4	211.1	62.1
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°	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4	1482.4
2.5°	1505.7	1493.3	1491.7	1471.5	1477.8	1460.7	1462.2	1459.1	1460.7	1457.6	1449.8
5°	1497.9	1488.6	1462.2	1479.3	1463.8	1485.5	1502.6	1496.4	1501.0	1499.5	1501.0
7.5°	1508.8	1496.4	1493.3	1484.0	1497.9	1507.2	1521.2	1560.0	1556.9	1561.6	1570.9
10°	1541.4	1527.4	1518.1	1532.1	1524.3	1553.8	1569.3	1589.5	1625.2	1626.8	1608.1
12.5°	1605.0	1595.7	1577.1	1580.2	1606.6	1615.9	1625.2	1637.6	1660.9	1656.3	1673.3
15°	1678.0	1657.8	1647.0	1643.8	1650.1	1660.9	1659.4	1671.8	1684.2	1695.1	1690.4
17.5°	1730.8	1704.4	1707.5	1723.0	1721.5	1718.4	1698.2	1692.0	1698.2	1704.4	1701.3
20°	1785.1	1788.2	1764.9	1751.0	1744.7	1713.7	1698.2	1679.5	1660.9	1670.2	1684.2
22.5°	1853.4	1839.4	1805.3	1763.4	1732.3	1713.7	1665.6	1633.0	1633.0	1642.3	1637.6
25°	1931.0	1901.5	1842.5	1766.5	1727.7	1648.5	1614.4	1609.7	1597.3	1611.2	1617.5
27.5°	1991.6	1965.2	1884.4	1755.6	1648.5	1584.9	1564.7	1558.5	1578.7	1580.2	1605.0
30°	2016.4	2008.6	1890.7	1727.7	1567.8	1465.3	1452.9	1480.9	1502.6	1535.2	1536.7
32.5°	2049.0	2052.1	1900.0	1662.5	1462.2	1359.8	1341.2	1375.3	1437.4	1463.8	1484.0
35°	2103.3	2118.8	1892.2	1581.8	1350.5	1252.7	1249.6	1258.9	1319.4	1366.0	1392.4
37.5°	2198.0	2194.9	1890.7	1485.5	1262.0	1159.5	1134.7	1137.8	1178.2	1217.0	1212.3
40°	2325.3	2312.9	1886.0	1359.8	1147.1	1080.4	1038.5	1022.9	1019.8	1009.0	1012.1
42.5°	2499.1	2474.3	1884.4	1232.5	1043.1	971.7	942.2	901.9	872.4	816.5	819.6
45°	2741.3	2697.8	1844.1	1113.0	940.7	881.7	836.7	807.2	743.5	673.7	673.7
47.5°	3115.4	2974.1	1845.6	981.0	841.3	793.2	762.2	710.9	642.6	586.8	580.5
50°	3666.4	3343.6	1792.9	877.0	760.6	728.0	695.4	636.4	571.2	532.4	537.1
52.5°	4377.4	3894.6	1791.3	783.9	697.0	673.7	638.0	585.2	537.1	512.2	502.9
55°	5224.9	4624.2	1847.2	707.8	631.8	619.4	603.8	560.4	513.8	492.1	490.5
57.5°	6092.6	5336.7	1937.2	653.5	575.9	585.2	574.3	540.2	502.9	478.1	475.0
60°	6864.1	5901.7	1755.6	588.3	526.2	546.4	561.9	532.4	512.2	510.7	499.8
62.5°	7446.2	6143.9	1334.9	538.6	499.8	537.1	579.0	597.6	588.3	600.7	602.3
65°	7658.9	5997.9	918.9	512.2	479.6	558.8	652.0	645.7	591.4	568.1	580.5
67.5°	7360.8	5406.5	681.4	481.2	465.7	603.8	693.9	616.2	534.0	530.9	521.6
70°	6330.1	4582.3	555.7	448.6	442.4	579.0	675.2	571.2	502.9	482.8	473.4
72°	5043.3	3568.7	487.4	425.3	405.1	516.9	631.8	535.5	476.5	451.7	440.8
72.5°	4604.0	3307.9	478.1	414.5	397.4	502.9	610.0	524.7	470.3	448.6	431.5
75°	2525.5	1693.5	420.7	380.3	335.3	434.6	565.0	492.1	443.9	412.9	409.8
77.5°	939.1	656.6	363.2	336.8	290.3	375.6	513.8	467.2	403.6	364.8	357.0
80°	360.1	346.2	296.5	284.1	243.7	329.1	473.4	419.1	343.1	304.2	291.8
82.5°	218.9	201.8	225.1	222.0	186.3	299.6	445.5	392.7	304.2	246.8	239.0
85°	119.5	119.5	156.8	150.6	130.4	239.0	336.8	260.8	192.5	158.3	161.4
87.5°	52.8	62.1	83.8	79.2	71.4	135.0	164.5	138.2	96.2	65.2	69.9
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)