

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: P478430

Luminaire Tested: **IFLD-S-SA3B-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478430  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

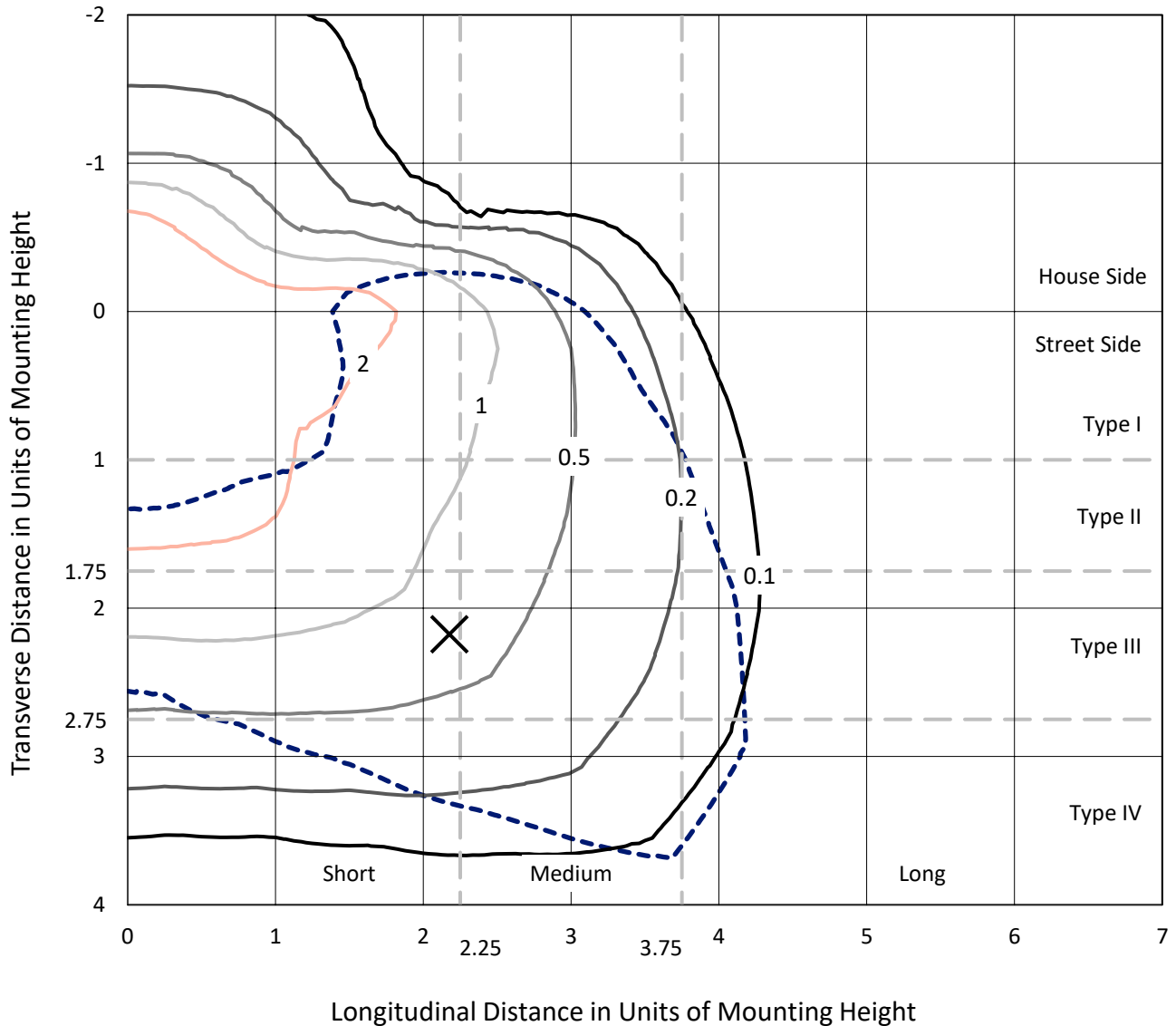
Lumens per Lamp: N/A  
Luminaire Lumens: 14383.8 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

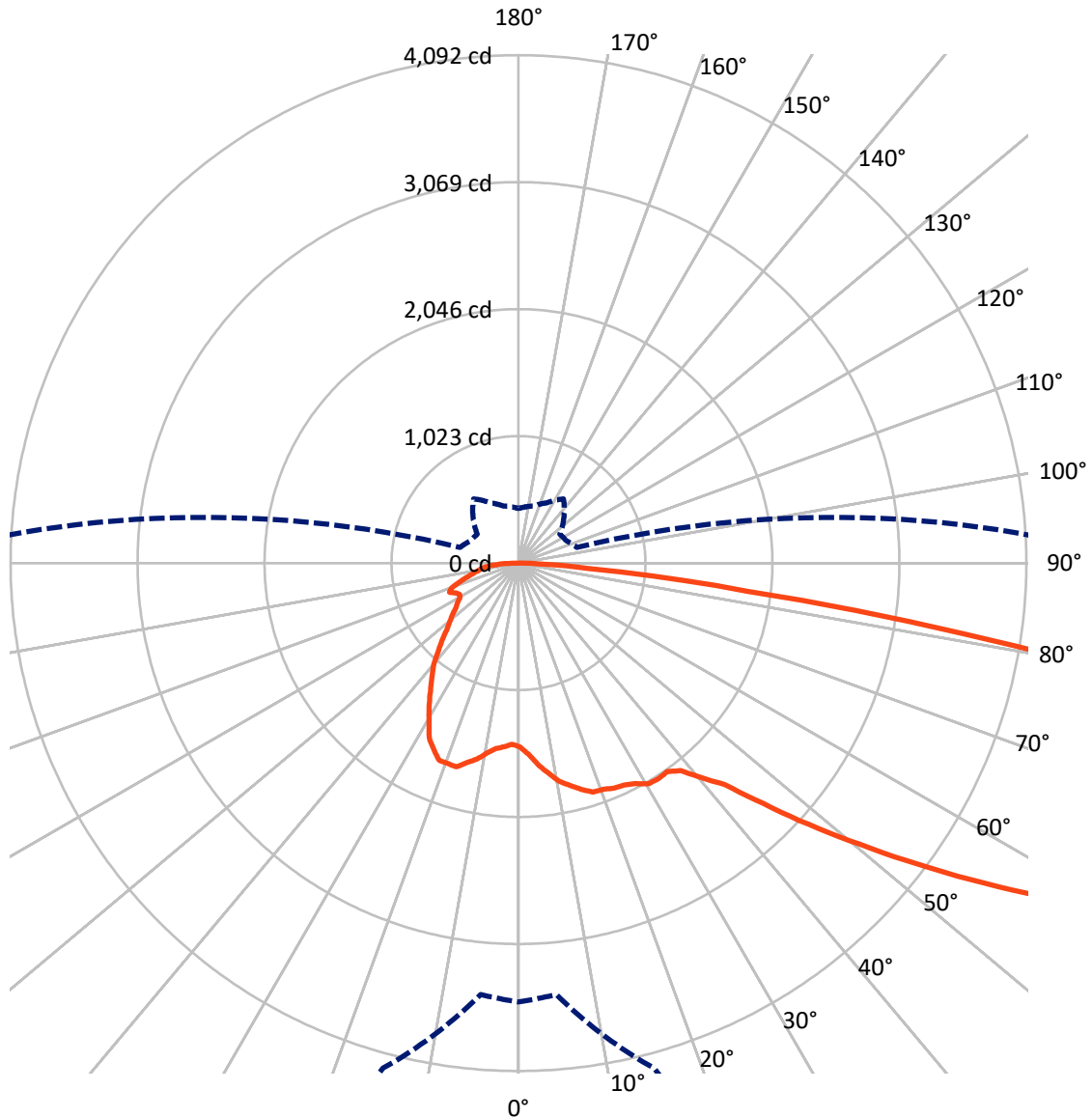
× Max cd  
 - - - 1/2 Max cd



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

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### 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	3201.9	0.0	3201.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	11181.8	0.0	11181.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	14383.8	0.0	14383.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	1.1
10°-20°	504.3	3.5
20°-30°	851.6	5.9
30°-40°	1178.5	8.2
40°-50°	1685.7	11.7
50°-60°	2718.9	18.9
60°-70°	4010.0	27.9
70°-80°	2911.9	20.2
80°-90°	371.2	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°	14383.8	100.0
0°-180°	14383.8	100.0

**Coefficient of Utilization**



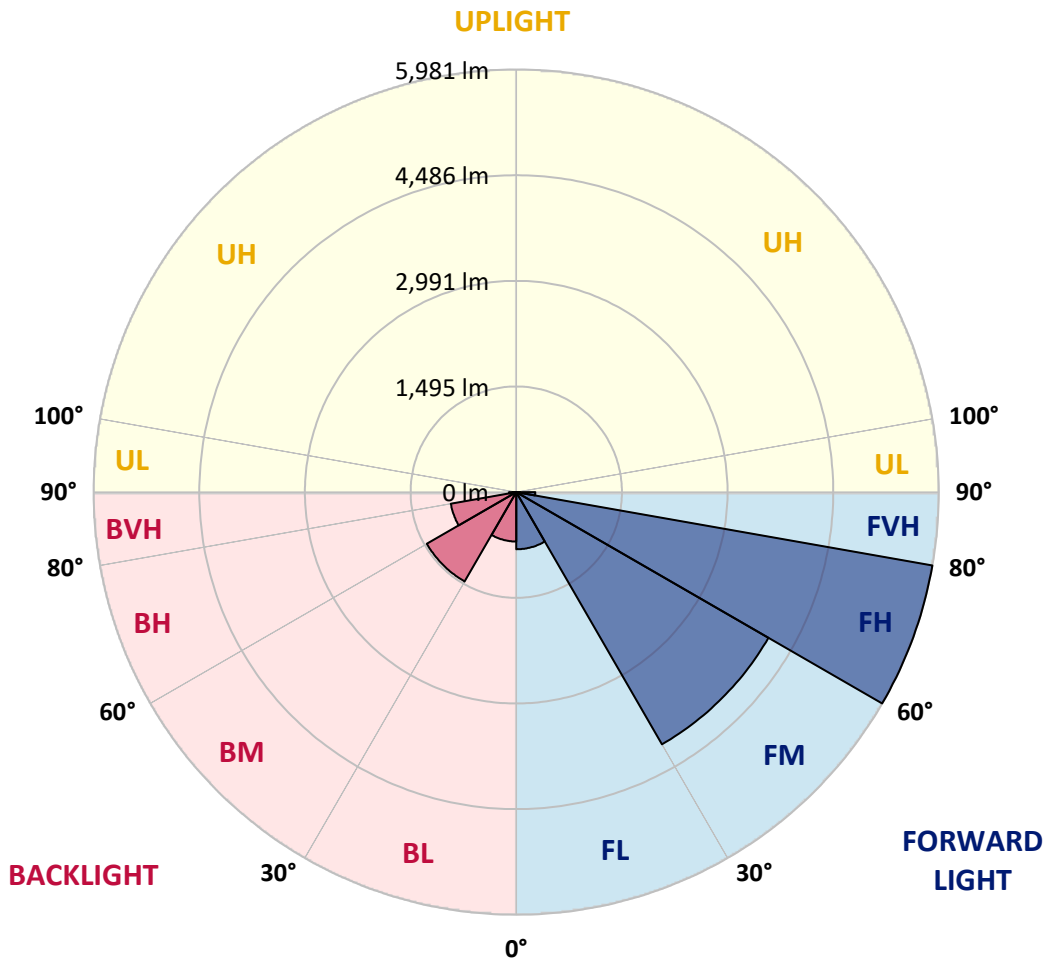
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.4	5.6			
FM (30°-60°)	4121.9	28.7			
FH (60°-80°)	5981.4	41.6			G3/7500
FVH (80°-90°)	270.2	1.9			G3/500
BL (0°-30°)	699.1	4.9	B2/1000		
BM (30°-60°)	1461.3	10.2	B2/2500		
BH (60°-80°)	940.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	101.0	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3
2.5°	1560.4	1569.7	1560.4	1558.8	1543.3	1532.5	1541.8	1527.8	1512.3	1506.1	1492.1
5°	1703.1	1704.6	1687.6	1689.1	1656.5	1622.4	1628.6	1586.7	1541.8	1524.7	1496.8
7.5°	1848.9	1831.8	1807.0	1799.2	1748.1	1710.8	1706.2	1668.9	1599.1	1560.4	1521.6
10°	1943.5	1949.7	1909.4	1875.2	1831.8	1786.8	1785.3	1715.5	1675.2	1617.8	1568.1
12.5°	2027.2	2028.8	1994.7	1940.4	1886.1	1830.3	1838.0	1807.0	1738.7	1684.5	1634.8
15°	2092.4	2083.1	2045.9	1996.2	1938.8	1895.4	1890.7	1864.4	1807.0	1762.0	1679.8
17.5°	2111.0	2106.3	2069.1	2016.4	1960.5	1928.0	1940.4	1897.0	1873.7	1833.4	1754.3
20°	2075.3	2064.5	2058.3	1999.3	1959.0	1955.9	1945.0	1954.3	1915.6	1878.3	1821.0
22.5°	2010.2	2005.5	2002.4	1955.9	1937.3	1951.2	1969.9	1983.8	1977.6	1941.9	1876.8
25°	1943.5	1965.2	1945.0	1923.3	1949.7	1985.4	1980.7	2025.7	2025.7	2014.8	1960.5
27.5°	1990.0	1976.1	1960.5	1949.7	1959.0	2014.8	2011.7	2066.0	2086.2	2066.0	2004.0
30°	2106.3	2092.4	2047.4	1999.3	1986.9	2047.4	2062.9	2111.0	2120.3	2070.7	2017.9
32.5°	2325.0	2317.3	2245.9	2104.8	2028.8	2062.9	2070.7	2125.0	2117.2	2086.2	2064.5
35°	2649.2	2622.9	2523.6	2284.7	2117.2	2083.1	2062.9	2106.3	2135.8	2120.3	2100.1
37.5°	3004.4	2974.9	2852.4	2550.0	2277.0	2137.4	2121.9	2157.5	2191.7	2183.9	2142.0
40°	3344.1	3344.1	3234.0	2881.9	2514.3	2269.2	2272.3	2232.0	2263.0	2249.0	2256.8
42.5°	3679.1	3666.7	3621.7	3271.2	2768.7	2489.5	2439.8	2339.0	2394.8	2390.2	2401.0
45°	4018.8	4009.5	3997.1	3634.1	3133.2	2787.3	2760.9	2579.4	2630.6	2608.9	2655.4
47.5°	4290.2	4301.1	4301.1	4039.0	3522.5	3184.3	3145.6	2858.6	2956.3	2967.2	2978.0
50°	4521.4	4526.0	4521.4	4425.2	3956.8	3638.8	3559.7	3268.1	3365.8	3451.1	3550.4
52.5°	4840.9	4847.1	4825.4	4788.1	4546.2	4116.5	4028.1	3703.9	3904.0	3994.0	4172.4
55°	5234.8	5188.3	5148.0	5175.9	5112.3	4642.3	4550.8	4153.8	4454.7	4574.1	4930.8
57.5°	5307.7	5348.1	5450.4	5672.2	5763.8	5154.2	5101.5	4705.9	5076.6	5180.6	5776.2
60°	5565.2	5498.5	5749.8	6230.6	6333.0	5821.1	5766.9	5310.8	5695.5	5804.1	6556.4
62.5°	5734.3	5731.2	6103.4	6674.2	6906.9	6512.9	6402.8	6097.2	6364.0	6469.5	7406.3
65°	5684.7	5729.6	6390.4	6934.8	7386.2	7299.3	7235.7	6773.5	7125.6	7116.3	7960.1
67.5°	5231.7	5358.9	6208.9	7122.5	8099.7	8257.9	8237.7	7724.3	7744.5	7547.5	8206.7
70°	4603.6	4560.1	5441.1	6927.1	8456.4	9394.8	9390.2	8431.6	8301.3	7642.1	7499.4
72°	3536.4	3488.3	4212.7	5948.3	8268.7	9849.3	9988.9	8921.7	8295.1	7249.7	6195.0
72.5°	3210.7	3168.8	3890.1	5599.3	8060.9	9967.1	9902.0	8940.3	8230.0	7065.1	5787.0
75°	1478.2	1430.1	1943.5	3427.9	6288.0	8831.8	9053.6	8366.4	7187.6	5624.2	3466.6
77.5°	440.5	426.5	625.1	1383.6	3654.3	6506.7	6592.0	6312.8	5017.7	3080.4	1285.8
80°	245.1	246.6	322.6	518.1	1606.9	3761.3	4068.4	3899.4	2461.5	1017.5	428.1
82.5°	136.5	144.2	201.6	307.1	738.3	1726.3	1858.2	1791.5	890.3	477.7	234.2
85°	71.3	74.5	105.5	164.4	418.8	546.0	561.5	601.8	462.2	325.7	125.6
87.5°	27.9	27.9	38.8	68.2	155.1	169.1	152.0	184.6	265.2	210.9	62.0
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°	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3	1481.3
2.5°	1504.5	1492.1	1490.6	1470.4	1476.6	1459.6	1461.1	1458.0	1459.6	1456.5	1448.7
5°	1496.8	1487.5	1461.1	1478.2	1462.7	1484.4	1501.4	1495.2	1499.9	1498.3	1499.9
7.5°	1507.6	1495.2	1492.1	1482.8	1496.8	1506.1	1520.0	1558.8	1555.7	1560.4	1569.7
10°	1540.2	1526.2	1516.9	1530.9	1523.1	1552.6	1568.1	1588.3	1624.0	1625.5	1606.9
12.5°	1603.8	1594.5	1575.9	1579.0	1605.4	1614.7	1624.0	1636.4	1659.6	1655.0	1672.0
15°	1676.7	1656.5	1645.7	1642.6	1648.8	1659.6	1658.1	1670.5	1682.9	1693.8	1689.1
17.5°	1729.4	1703.1	1706.2	1721.7	1720.1	1717.0	1696.9	1690.7	1696.9	1703.1	1700.0
20°	1783.7	1786.8	1763.6	1749.6	1743.4	1712.4	1696.9	1678.3	1659.6	1668.9	1682.9
22.5°	1852.0	1838.0	1803.9	1762.0	1731.0	1712.4	1664.3	1631.7	1631.7	1641.0	1636.4
25°	1929.5	1900.1	1841.1	1765.1	1726.3	1647.2	1613.1	1608.5	1596.0	1610.0	1616.2
27.5°	1990.0	1963.6	1883.0	1754.3	1647.2	1583.6	1563.5	1557.3	1577.4	1579.0	1603.8
30°	2014.8	2007.1	1889.2	1726.3	1566.6	1464.2	1451.8	1479.7	1501.4	1534.0	1535.6
32.5°	2047.4	2050.5	1898.5	1661.2	1461.1	1358.7	1340.1	1374.2	1436.3	1462.7	1482.8
35°	2101.7	2117.2	1890.7	1580.5	1349.4	1251.7	1248.6	1257.9	1318.4	1364.9	1391.3
37.5°	2196.3	2193.2	1889.2	1484.4	1261.0	1158.6	1133.8	1136.9	1177.3	1216.0	1211.4
40°	2323.5	2311.1	1884.5	1358.7	1146.2	1079.5	1037.7	1022.2	1019.1	1008.2	1011.3
42.5°	2497.2	2472.4	1883.0	1231.5	1042.3	971.0	941.5	901.2	871.7	815.9	819.0
45°	2739.2	2695.8	1842.7	1112.1	939.9	881.0	836.0	806.6	743.0	673.2	673.2
47.5°	3113.0	2971.8	1844.2	980.3	840.7	792.6	761.6	710.4	642.1	586.3	580.1
50°	3663.6	3341.0	1791.5	876.4	760.0	727.4	694.9	635.9	570.8	532.0	536.7
52.5°	4374.0	3891.6	1789.9	783.3	696.4	673.2	637.5	584.8	536.7	511.9	502.5
55°	5220.9	4620.6	1845.8	707.3	631.3	618.9	603.4	559.9	513.4	491.7	490.1
57.5°	6087.9	5332.6	1935.7	653.0	575.4	584.8	573.9	539.8	502.5	477.7	474.6
60°	6858.8	5897.2	1754.3	587.9	525.8	546.0	561.5	532.0	511.9	510.3	499.4
62.5°	7440.5	6139.1	1333.9	538.2	499.4	536.7	578.5	597.2	587.9	600.3	601.8
65°	7653.0	5993.3	918.2	511.9	479.3	558.4	651.4	645.2	591.0	567.7	580.1
67.5°	7355.2	5402.4	680.9	480.8	465.3	603.4	693.3	615.8	533.6	530.5	521.2
70°	6325.2	4578.7	555.3	448.3	442.1	578.5	674.7	570.8	502.5	482.4	473.1
72°	5039.4	3565.9	487.0	425.0	404.8	516.5	631.3	535.1	476.2	451.4	440.5
72.5°	4600.5	3305.3	477.7	414.1	397.1	502.5	609.6	524.3	470.0	448.3	431.2
75°	2523.6	1692.2	420.3	380.0	335.0	434.3	564.6	491.7	443.6	412.6	409.5
77.5°	938.4	656.1	362.9	336.6	290.0	375.4	513.4	466.9	403.3	364.5	356.7
80°	359.8	345.9	296.3	283.8	243.5	328.8	473.1	418.8	342.8	304.0	291.6
82.5°	218.7	201.6	224.9	221.8	186.1	299.4	445.2	392.4	304.0	246.6	238.9
85°	119.4	119.4	156.7	150.5	130.3	238.9	336.6	260.6	192.3	158.2	161.3
87.5°	52.7	62.0	83.8	79.1	71.3	134.9	164.4	138.0	96.2	65.1	69.8
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)