

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: P477999

Luminaire Tested: **IFLD-S-SA2E-722-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477999  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-722-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

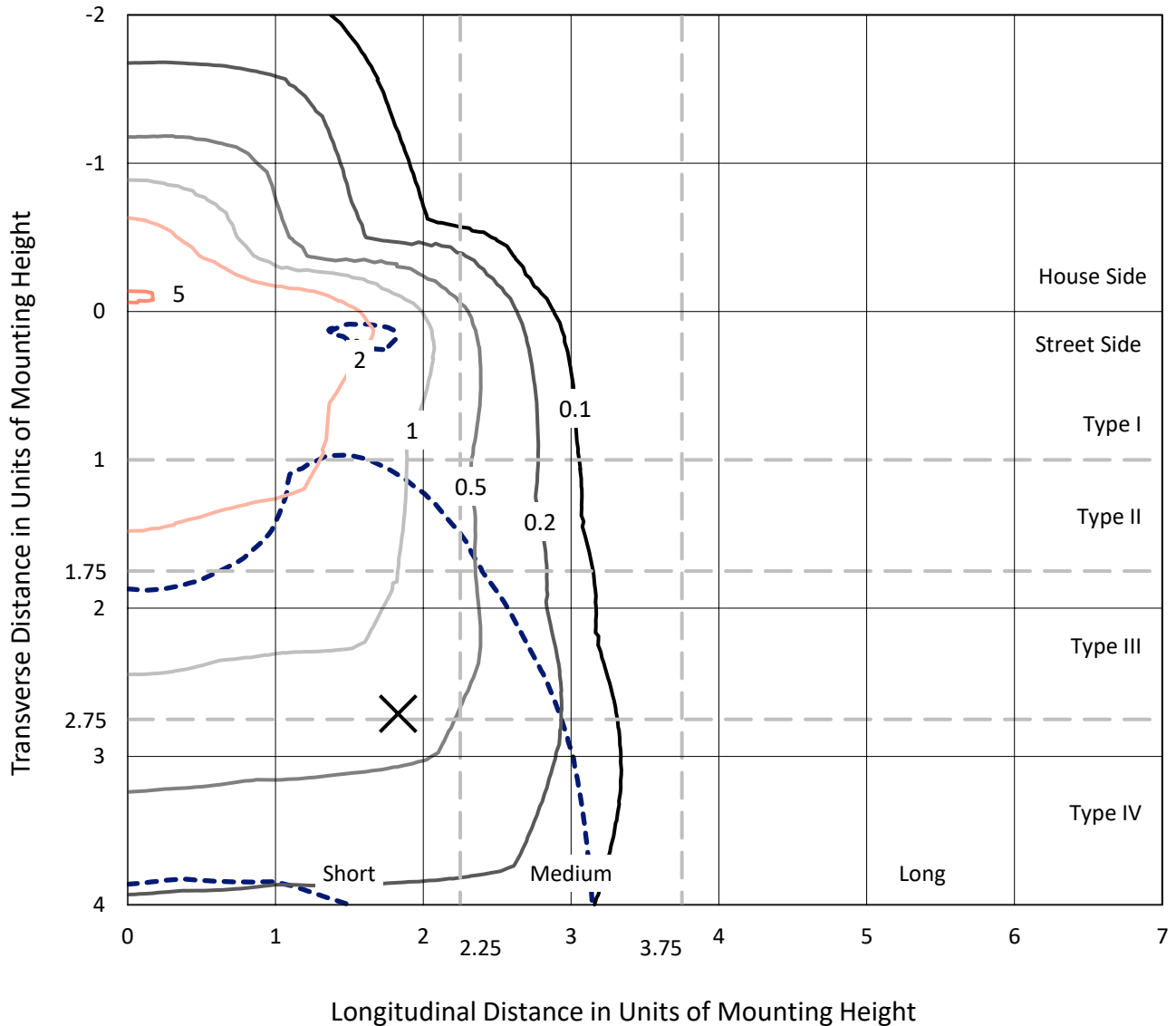
Lumens per Lamp: N/A  
Luminaire Lumens: 13658.5 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

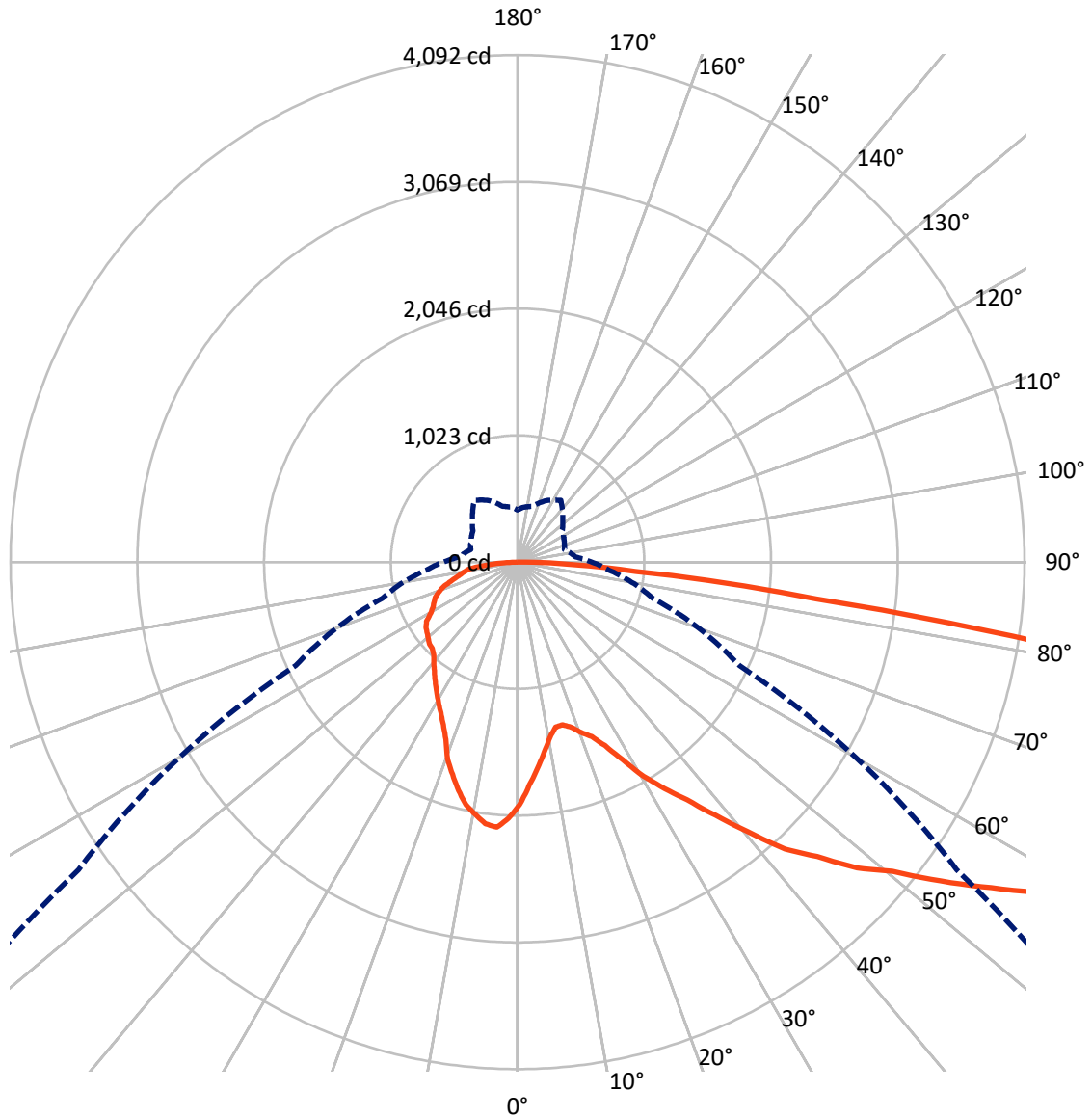
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	2950.4	0.0	2950.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	10708.1	0.0	10708.1
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	13658.5	0.0	13658.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.7	1.3
10°-20°	505.8	3.7
20°-30°	832.4	6.1
30°-40°	1244.9	9.1
40°-50°	1845.5	13.5
50°-60°	2659.6	19.5
60°-70°	3394.0	24.8
70°-80°	2641.1	19.3
80°-90°	354.3	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°	13658.5	100.0
0°-180°	13658.5	100.0

**Coefficient of Utilization**



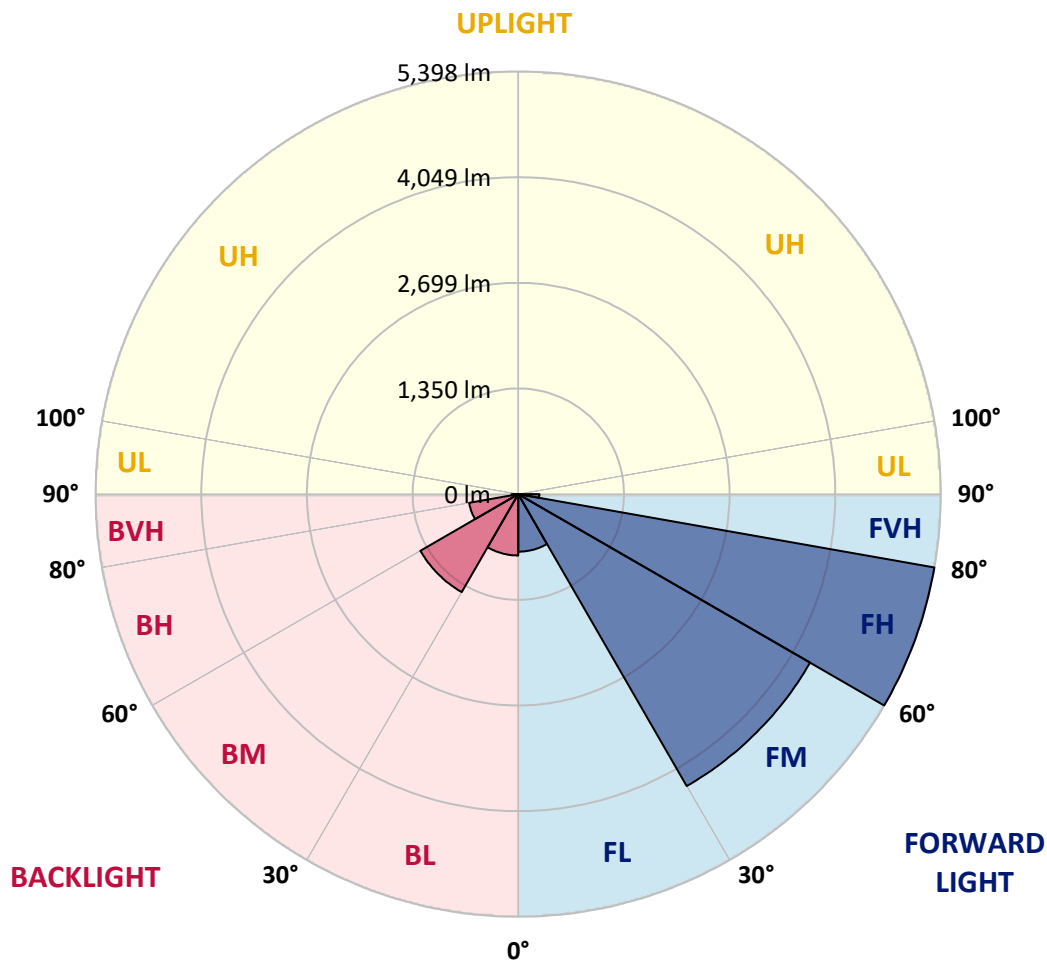
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.1	5.4			
FM (30°-60°)	4305.3	31.5			
FH (60°-80°)	5398.1	39.5			G3/7500
FVH (80°-90°)	269.7	2.0			G3/500
BL (0°-30°)	783.9	5.7	B2/1000		
BM (30°-60°)	1444.8	10.6	B2/2500		
BH (60°-80°)	637.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	84.6	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2
2.5°	1754.5	1760.3	1779.1	1783.4	1803.6	1792.1	1816.6	1860.0	1884.5	1920.6	1963.9
5°	1615.9	1591.4	1602.9	1647.7	1670.8	1676.6	1702.6	1776.2	1822.4	1875.9	1956.7
7.5°	1452.7	1448.4	1471.5	1500.4	1546.6	1550.9	1608.7	1673.7	1769.0	1887.4	1982.7
10°	1341.5	1360.3	1373.3	1403.6	1435.4	1435.4	1509.1	1621.7	1730.0	1844.1	1988.5
12.5°	1335.8	1324.2	1327.1	1343.0	1366.1	1395.0	1464.3	1565.4	1702.6	1835.4	2013.0
15°	1354.5	1358.9	1332.9	1353.1	1361.8	1371.9	1448.4	1562.5	1685.2	1865.7	2054.9
17.5°	1454.2	1429.6	1389.2	1370.4	1400.8	1400.8	1452.7	1542.3	1688.1	1881.6	2115.6
20°	1532.2	1532.2	1465.7	1445.5	1467.2	1462.8	1498.9	1565.4	1702.6	1913.4	2183.4
22.5°	1663.6	1682.3	1572.6	1530.7	1529.3	1540.8	1572.6	1628.9	1743.0	1958.2	2248.4
25°	1852.7	1857.1	1730.0	1686.7	1640.5	1659.2	1665.0	1721.3	1779.1	2010.1	2322.1
27.5°	2063.6	2060.7	1943.7	1835.4	1805.1	1809.4	1777.7	1815.2	1832.5	2026.0	2427.5
30°	2297.5	2271.5	2183.4	2030.4	2005.8	1978.4	1909.1	1907.6	1943.7	2115.6	2573.3
32.5°	2450.6	2417.4	2356.7	2247.0	2179.1	2182.0	2072.2	2070.8	2039.0	2213.8	2700.4
35°	2600.8	2550.2	2534.3	2421.7	2353.8	2361.1	2273.0	2261.4	2203.7	2362.5	2909.8
37.5°	2781.3	2736.5	2761.1	2675.9	2592.1	2557.5	2517.0	2502.6	2427.5	2571.9	3195.7
40°	2980.6	2966.1	2950.2	2908.4	2857.8	2860.7	2817.4	2802.9	2691.8	2824.6	3470.1
42.5°	3249.2	3194.3	3112.0	3139.4	3165.4	3192.8	3178.4	3140.9	3025.3	3081.7	3776.2
45°	3499.0	3426.8	3275.2	3283.8	3390.7	3412.3	3587.1	3582.7	3350.2	3408.0	4124.3
47.5°	3667.9	3634.7	3543.8	3533.6	3686.7	3685.3	4000.1	4000.1	3692.5	3732.9	4498.3
50°	3919.2	3832.6	3793.6	3844.1	3922.1	3975.5	4421.7	4449.2	4029.0	4072.3	4987.8
52.5°	4213.8	4105.5	4007.3	4137.3	4275.9	4310.6	4839.1	4827.5	4287.5	4466.5	5561.1
55°	4457.9	4403.0	4335.1	4410.2	4636.9	4680.2	5257.9	5151.0	4545.9	4792.9	5836.9
57.5°	4742.3	4775.5	4790.0	4771.2	5041.3	5109.1	5735.9	5429.7	4768.3	5012.4	5998.7
60°	5171.2	5191.4	5210.2	5255.0	5540.9	5636.2	6114.2	5779.2	4908.4	5139.5	6011.7
62.5°	5823.9	5746.0	5787.8	5942.4	6172.0	6280.3	6671.6	6024.7	5015.3	5216.0	5587.1
65°	6570.5	6465.1	6421.8	6621.1	7216.0	7129.4	7367.7	6208.1	4860.7	4930.1	4738.0
67.5°	7327.2	7338.8	7227.6	7627.6	8356.8	8356.8	8014.6	6296.2	4442.0	3995.7	3322.8
70°	7928.0	7964.1	8024.7	8800.2	9955.4	10130.2	8816.1	5935.1	3588.5	2660.0	1816.6
72.5°	7919.3	7811.0	8121.5	9549.7	11408.2	11262.3	8983.6	4693.2	2239.8	1302.6	833.2
73°	7741.7	7650.7	7990.1	9542.4	11467.4	11330.2	8860.8	4326.4	1975.5	1129.3	740.8
75°	6322.1	6157.5	6735.2	8642.8	10609.6	10715.0	7527.9	2821.7	1083.1	696.0	521.3
77.5°	2882.4	2954.6	3706.9	5798.0	8176.3	8300.5	4948.8	1220.2	593.5	488.1	384.1
80°	925.7	971.9	1442.6	2882.4	5125.0	5348.8	2287.4	554.5	423.1	374.0	287.4
82.5°	353.8	352.4	605.1	1198.6	2428.9	2571.9	836.1	337.9	314.8	275.8	203.6
85°	124.2	130.0	228.2	473.7	956.0	1000.7	290.3	187.7	218.1	184.8	117.0
87.5°	43.3	44.8	80.9	171.8	329.2	348.0	80.9	75.1	108.3	106.9	59.2
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°	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2	1958.2
2.5°	1978.4	1991.4	1995.7	2047.7	2047.7	2047.7	2067.9	2067.9	2062.1	2047.7	2082.4
5°	1987.0	2010.1	2054.9	2099.7	2111.2	2121.3	2148.8	2125.7	2134.3	2119.9	2132.9
7.5°	2011.6	2043.4	2127.1	2154.6	2135.8	2157.4	2128.6	2112.7	2096.8	2102.6	2082.4
10°	2053.5	2093.9	2132.9	2183.4	2147.3	2125.7	2066.5	2052.0	2001.5	1984.2	2000.0
12.5°	2105.5	2154.6	2221.0	2202.2	2132.9	2070.8	2007.3	1946.6	1916.3	1873.0	1884.5
15°	2157.4	2213.8	2223.9	2192.1	2105.5	2027.5	1912.0	1826.8	1796.4	1757.4	1777.7
17.5°	2213.8	2267.2	2249.9	2167.6	2050.6	1932.2	1800.8	1717.0	1653.5	1628.9	1628.9
20°	2297.5	2323.5	2296.1	2127.1	1984.2	1828.2	1701.1	1605.8	1542.3	1532.2	1516.3
22.5°	2362.5	2404.4	2281.6	2067.9	1887.4	1692.5	1546.6	1510.5	1491.7	1475.8	1455.6
25°	2446.3	2444.8	2255.6	2013.0	1721.3	1530.7	1442.6	1439.7	1431.1	1425.3	1452.7
27.5°	2525.7	2492.5	2225.3	1877.3	1549.5	1408.0	1360.3	1392.1	1405.1	1396.4	1408.0
30°	2651.3	2596.4	2182.0	1732.9	1397.9	1283.8	1292.4	1335.8	1357.4	1370.4	1353.1
32.5°	2784.2	2700.4	2092.5	1582.7	1263.6	1205.8	1226.0	1270.8	1296.8	1311.2	1327.1
35°	2976.2	2781.3	2001.5	1386.3	1166.8	1158.1	1169.7	1194.2	1231.8	1241.9	1246.2
37.5°	3213.1	2904.0	1878.7	1228.9	1091.7	1101.8	1113.4	1122.0	1123.5	1142.3	1135.0
40°	3449.9	3008.0	1699.7	1078.7	1013.7	1068.6	1062.8	1047.0	1034.0	1016.6	1012.3
42.5°	3657.8	3099.0	1500.4	951.6	944.4	1034.0	1015.2	974.7	944.4	931.4	909.8
45°	3891.8	3227.5	1299.7	872.2	891.0	992.1	986.3	924.2	885.2	839.0	833.2
47.5°	4195.0	3361.8	1107.6	789.9	840.5	976.2	979.1	899.7	843.3	781.2	772.6
50°	4583.5	3555.3	961.8	755.2	810.1	953.1	957.4	866.4	792.8	729.3	723.5
52.5°	4956.1	3753.1	840.5	701.8	789.9	925.7	935.8	836.1	750.9	671.5	675.8
55°	5143.8	3680.9	736.5	662.8	743.7	880.9	918.4	814.5	687.4	632.5	631.1
57.5°	5185.7	3503.3	654.2	622.4	704.7	833.2	889.5	749.5	658.5	612.3	606.5
60°	5048.5	3192.8	589.2	579.1	655.6	784.1	823.1	714.8	629.6	592.1	583.4
62.5°	4710.6	2870.8	544.4	558.9	613.7	730.7	781.2	690.3	602.2	576.2	557.4
65°	3862.9	2361.1	508.3	519.9	570.4	678.7	755.2	662.8	577.6	553.1	551.6
67.5°	2675.9	1627.5	479.4	501.1	535.8	641.2	729.3	632.5	545.9	537.2	525.6
70°	1370.4	867.9	441.9	459.2	498.2	593.5	683.0	600.7	512.6	511.2	496.8
72.5°	694.6	508.3	398.6	424.6	452.0	531.4	625.3	558.9	470.8	454.9	431.8
73°	600.7	470.8	391.3	414.4	440.4	514.1	608.0	548.7	465.0	441.9	420.2
75°	437.6	371.1	350.9	374.0	394.2	463.5	550.2	502.5	427.4	402.9	382.7
77.5°	327.8	285.9	291.7	317.7	335.0	400.0	489.5	454.9	387.0	353.8	345.1
80°	241.2	218.1	241.2	265.7	278.7	352.4	446.2	394.2	326.4	288.8	281.6
82.5°	171.8	158.8	186.3	202.2	207.9	291.7	401.5	314.8	246.9	197.8	182.0
85°	98.2	96.8	125.6	124.2	128.5	170.4	264.3	209.4	158.8	121.3	118.4
87.5°	43.3	47.7	63.5	50.5	53.4	80.9	112.6	78.0	65.0	36.1	27.4
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)