

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: P478662

Luminaire Tested: **IFLD-S-SA2E-827-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478662  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

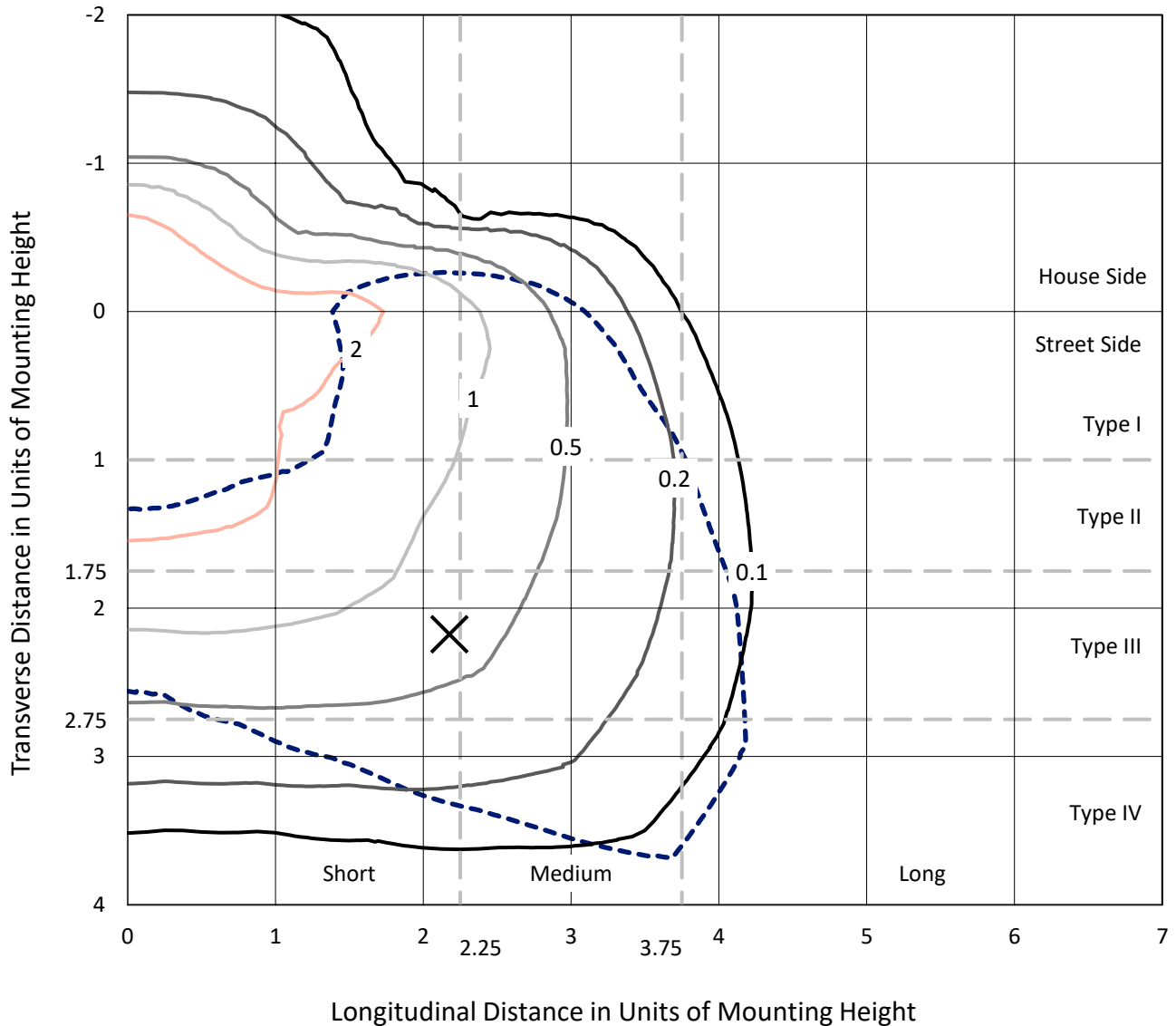
Lumens per Lamp: N/A  
Luminaire Lumens: 13448.3 lumens  
Efficiency: N/A  
Efficacy: 86.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

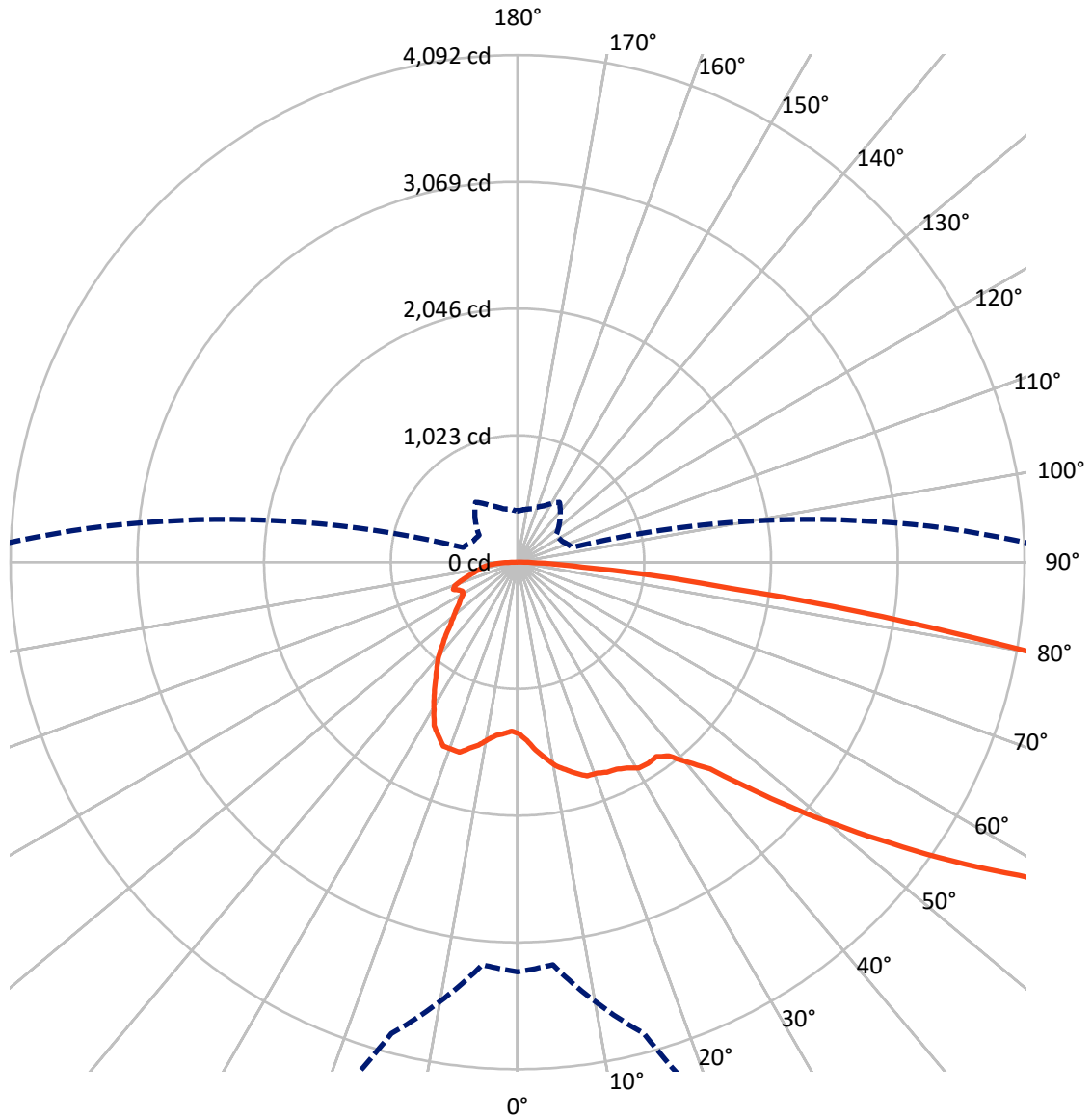
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	2993.7	0.0	2993.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	10454.6	0.0	10454.6
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	13448.3	0.0	13448.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	1.1
10°-20°	471.5	3.5
20°-30°	796.2	5.9
30°-40°	1101.9	8.2
40°-50°	1576.1	11.7
50°-60°	2542.1	18.9
60°-70°	3749.2	27.9
70°-80°	2722.6	20.2
80°-90°	347.1	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°	13448.3	100.0
0°-180°	13448.3	100.0

**Coefficient of Utilization**



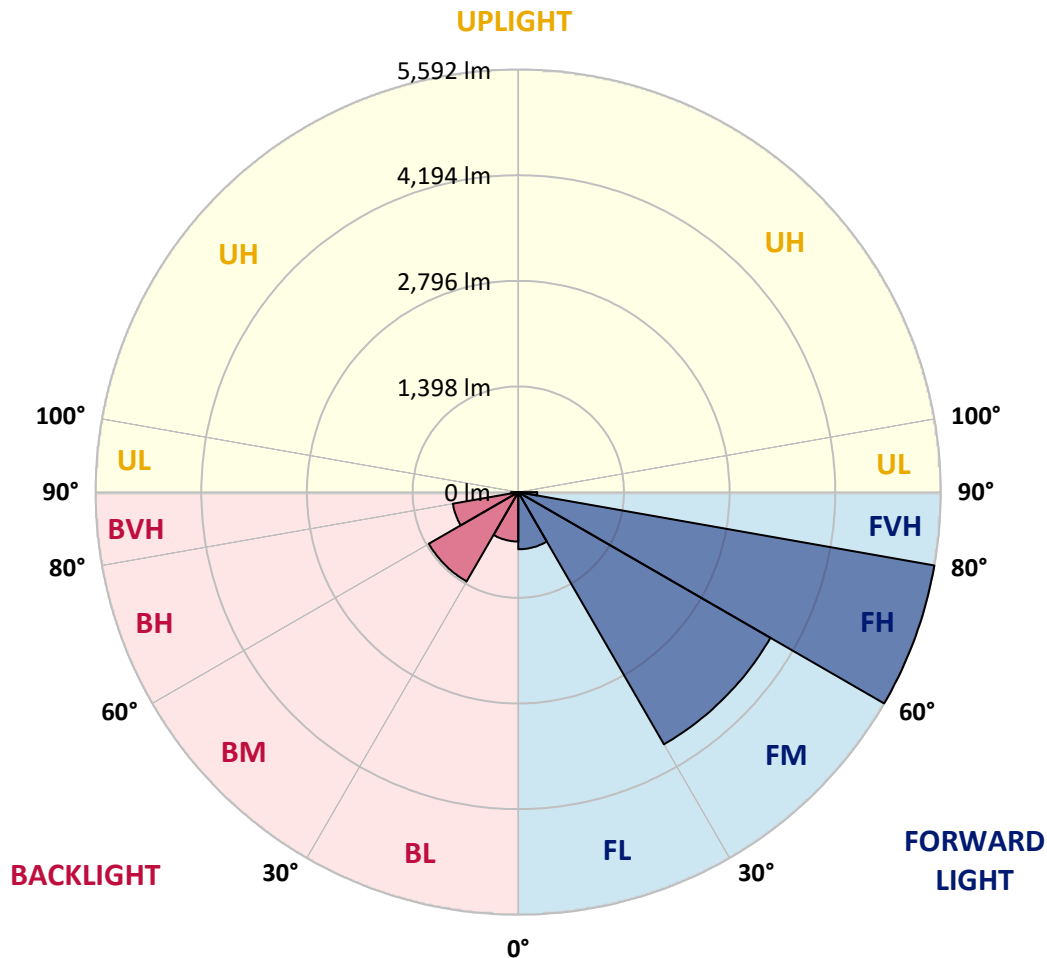
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	755.8	5.6			
FM (30°-60°)	3853.8	28.7			
FH (60°-80°)	5592.4	41.6			G3/7500
FVH (80°-90°)	252.6	1.9			G3/500
BL (0°-30°)	653.6	4.9	B2/1000		
BM (30°-60°)	1366.2	10.2	B2/2500		
BH (60°-80°)	879.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	94.4	0.7			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°	35°	44°	45°	55°	65°	75°	85°
0°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1458.9	1467.6	1458.9	1457.4	1442.9	1432.8	1441.5	1428.4	1413.9	1408.1	1395.1
5°	1592.3	1593.8	1577.8	1579.3	1548.8	1516.9	1522.7	1483.5	1441.5	1425.5	1399.4
7.5°	1728.6	1712.7	1689.5	1682.2	1634.4	1599.6	1595.2	1560.4	1495.1	1458.9	1422.6
10°	1817.1	1822.9	1785.2	1753.3	1712.7	1670.6	1669.2	1603.9	1566.2	1512.5	1466.1
12.5°	1895.4	1896.8	1864.9	1814.2	1763.4	1711.2	1718.5	1689.5	1625.7	1574.9	1528.5
15°	1956.3	1947.6	1912.8	1866.4	1812.7	1772.1	1767.8	1743.1	1689.5	1647.4	1570.6
17.5°	1973.7	1969.4	1934.5	1885.2	1833.0	1802.6	1814.2	1773.6	1751.8	1714.1	1640.2
20°	1940.3	1930.2	1924.4	1869.3	1831.6	1828.7	1818.5	1827.2	1791.0	1756.2	1702.5
22.5°	1879.4	1875.1	1872.2	1828.7	1811.3	1824.3	1841.7	1854.8	1849.0	1815.6	1754.7
25°	1817.1	1837.4	1818.5	1798.2	1822.9	1856.2	1851.9	1893.9	1893.9	1883.8	1833.0
27.5°	1860.6	1847.5	1833.0	1822.9	1831.6	1883.8	1880.9	1931.6	1950.5	1931.6	1873.6
30°	1969.4	1956.3	1914.2	1869.3	1857.7	1914.2	1928.7	1973.7	1982.4	1936.0	1886.7
32.5°	2173.8	2166.6	2099.9	1967.9	1896.8	1928.7	1936.0	1986.8	1979.5	1950.5	1930.2
35°	2476.9	2452.3	2359.5	2136.1	1979.5	1947.6	1928.7	1969.4	1996.9	1982.4	1963.6
37.5°	2809.0	2781.5	2666.9	2384.1	2128.9	1998.4	1983.9	2017.2	2049.1	2041.9	2002.7
40°	3126.6	3126.6	3023.6	2694.4	2350.8	2121.6	2124.5	2086.8	2115.8	2102.8	2110.0
42.5°	3439.8	3428.2	3386.2	3058.4	2588.6	2327.5	2281.1	2186.9	2239.1	2234.7	2244.9
45°	3757.4	3748.7	3737.1	3397.8	2929.4	2606.0	2581.3	2411.7	2459.5	2439.2	2482.7
47.5°	4011.2	4021.4	4021.4	3776.3	3293.4	2977.2	2941.0	2672.7	2764.1	2774.2	2784.4
50°	4227.3	4231.6	4227.3	4137.4	3699.4	3402.1	3328.2	3055.5	3146.9	3226.7	3319.5
52.5°	4526.0	4531.8	4511.5	4476.7	4250.5	3848.8	3766.1	3463.0	3650.1	3734.2	3901.0
55°	4894.4	4850.9	4813.2	4839.3	4779.8	4340.4	4254.8	3883.6	4164.9	4276.6	4610.1
57.5°	4962.5	5000.2	5096.0	5303.3	5388.9	4819.0	4769.7	4399.9	4746.5	4843.6	5400.5
60°	5203.3	5140.9	5375.8	5825.4	5921.1	5442.5	5391.8	4965.4	5325.1	5426.6	6129.9
62.5°	5361.3	5358.4	5706.5	6240.2	6457.7	6089.3	5986.4	5700.7	5950.1	6048.7	6924.6
65°	5314.9	5357.0	5974.8	6483.8	6905.8	6824.6	6765.1	6333.0	6662.2	6653.5	7442.4
67.5°	4891.5	5010.4	5805.1	6659.3	7572.9	7720.8	7701.9	7221.9	7240.8	7056.6	7672.9
70°	4304.2	4263.5	5087.3	6476.5	7906.4	8783.8	8779.4	7883.2	7761.4	7145.1	7011.7
72°	3306.4	3261.5	3938.7	5561.5	7730.9	9208.7	9339.2	8341.5	7755.6	6778.2	5792.0
72.5°	3001.9	2962.7	3637.1	5235.2	7536.6	9318.9	9258.0	8358.9	7694.7	6605.6	5410.6
75°	1382.0	1337.1	1817.1	3204.9	5879.1	8257.4	8464.7	7822.3	6720.2	5258.4	3241.2
77.5°	411.9	398.8	584.4	1293.6	3416.6	6083.5	6163.3	5902.3	4691.4	2880.1	1202.2
80°	229.1	230.6	301.6	484.4	1502.4	3516.7	3803.8	3645.8	2301.4	951.3	400.3
82.5°	127.6	134.9	188.5	287.1	690.3	1614.1	1737.3	1675.0	832.4	446.7	219.0
85°	66.7	69.6	98.6	153.7	391.6	510.5	525.0	562.7	432.2	304.5	117.5
87.5°	26.1	26.1	36.3	63.8	145.0	158.1	142.1	172.6	248.0	197.2	58.0
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°	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9	1384.9
2.5°	1406.7	1395.1	1393.6	1374.8	1380.6	1364.6	1366.1	1363.2	1364.6	1361.7	1354.5
5°	1399.4	1390.7	1366.1	1382.0	1367.5	1387.8	1403.8	1398.0	1402.3	1400.9	1402.3
7.5°	1409.6	1398.0	1395.1	1386.4	1399.4	1408.1	1421.2	1457.4	1454.5	1458.9	1467.6
10°	1440.0	1427.0	1418.3	1431.3	1424.1	1451.6	1466.1	1485.0	1518.3	1519.8	1502.4
12.5°	1499.5	1490.8	1473.4	1476.3	1500.9	1509.6	1518.3	1529.9	1551.7	1547.3	1563.3
15°	1567.7	1548.8	1538.6	1535.7	1541.5	1551.7	1550.2	1561.9	1573.5	1583.6	1579.3
17.5°	1617.0	1592.3	1595.2	1609.7	1608.3	1605.4	1586.5	1580.7	1586.5	1592.3	1589.4
20°	1667.7	1670.6	1648.9	1635.8	1630.0	1601.0	1586.5	1569.1	1551.7	1560.4	1573.5
22.5°	1731.5	1718.5	1686.6	1647.4	1618.4	1601.0	1556.1	1525.6	1525.6	1534.3	1529.9
25°	1804.0	1776.5	1721.4	1650.3	1614.1	1540.1	1508.2	1503.8	1492.2	1505.3	1511.1
27.5°	1860.6	1835.9	1760.5	1640.2	1540.1	1480.6	1461.8	1456.0	1474.8	1476.3	1499.5
30°	1883.8	1876.5	1766.3	1614.1	1464.7	1369.0	1357.4	1383.5	1403.8	1434.2	1435.7
32.5°	1914.2	1917.1	1775.0	1553.1	1366.1	1270.4	1253.0	1284.9	1342.9	1367.5	1386.4
35°	1965.0	1979.5	1767.8	1477.7	1261.7	1170.3	1167.4	1176.1	1232.7	1276.2	1300.8
37.5°	2053.5	2050.6	1766.3	1387.8	1179.0	1083.3	1060.1	1063.0	1100.7	1136.9	1132.6
40°	2172.4	2160.8	1762.0	1270.4	1071.7	1009.3	970.2	955.7	952.8	942.6	945.5
42.5°	2334.8	2311.6	1760.5	1151.4	974.5	907.8	880.3	842.6	815.0	762.8	765.7
45°	2561.0	2520.4	1722.8	1039.8	878.8	823.7	781.7	754.1	694.6	629.4	629.4
47.5°	2910.5	2778.6	1724.3	916.5	786.0	741.0	712.0	664.2	600.4	548.2	542.4
50°	3425.3	3123.7	1675.0	819.4	710.6	680.1	649.7	594.6	533.7	497.4	501.8
52.5°	4089.5	3638.5	1673.5	732.3	651.1	629.4	596.0	546.7	501.8	478.6	469.9
55°	4881.3	4320.1	1725.7	661.3	590.2	578.6	564.1	523.5	480.0	459.7	458.3
57.5°	5692.0	4985.7	1809.8	610.5	538.0	546.7	536.6	504.7	469.9	446.7	443.8
60°	6412.7	5513.6	1640.2	549.6	491.6	510.5	525.0	497.4	478.6	477.1	467.0
62.5°	6956.5	5739.8	1247.2	503.2	467.0	501.8	540.9	558.3	549.6	561.2	562.7
65°	7155.2	5603.5	858.5	478.6	448.1	522.1	609.1	603.3	552.5	530.8	542.4
67.5°	6876.8	5051.0	636.6	449.6	435.1	564.1	648.2	575.7	498.9	496.0	487.3
70°	5913.9	4281.0	519.2	419.1	413.3	540.9	630.8	533.7	469.9	451.0	442.3
72°	4711.7	3334.0	455.4	397.4	378.5	482.9	590.2	500.3	445.2	422.0	411.9
72.5°	4301.3	3090.3	446.7	387.2	371.2	469.9	569.9	490.2	439.4	419.1	403.2
75°	2359.5	1582.2	393.0	355.3	313.2	406.1	527.9	459.7	414.8	385.7	382.8
77.5°	877.4	613.4	339.3	314.7	271.2	350.9	480.0	436.5	377.0	340.8	333.5
80°	336.4	323.4	277.0	265.4	227.7	307.4	442.3	391.6	320.5	284.2	272.6
82.5°	204.5	188.5	210.3	207.4	174.0	279.9	416.2	366.9	284.2	230.6	223.3
85°	111.7	111.7	146.5	140.7	121.8	223.3	314.7	243.6	179.8	147.9	150.8
87.5°	49.3	58.0	78.3	74.0	66.7	126.2	153.7	129.1	89.9	60.9	65.3
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)