

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: P478036

Luminaire Tested: **IFLD-S-SA2C-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

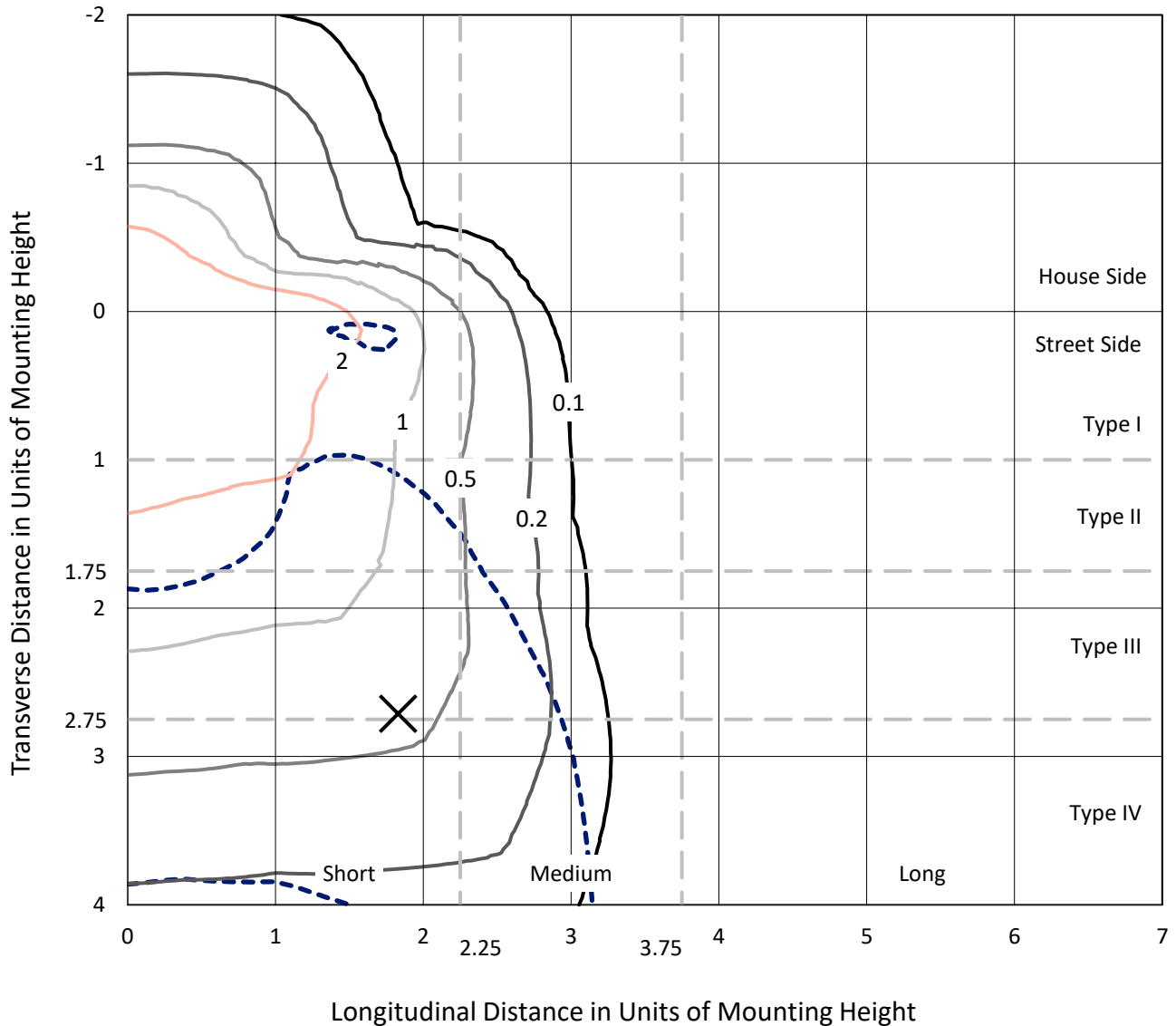
Lumens per Lamp: N/A
Luminaire Lumens: 12177.8 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (A_{in}): 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

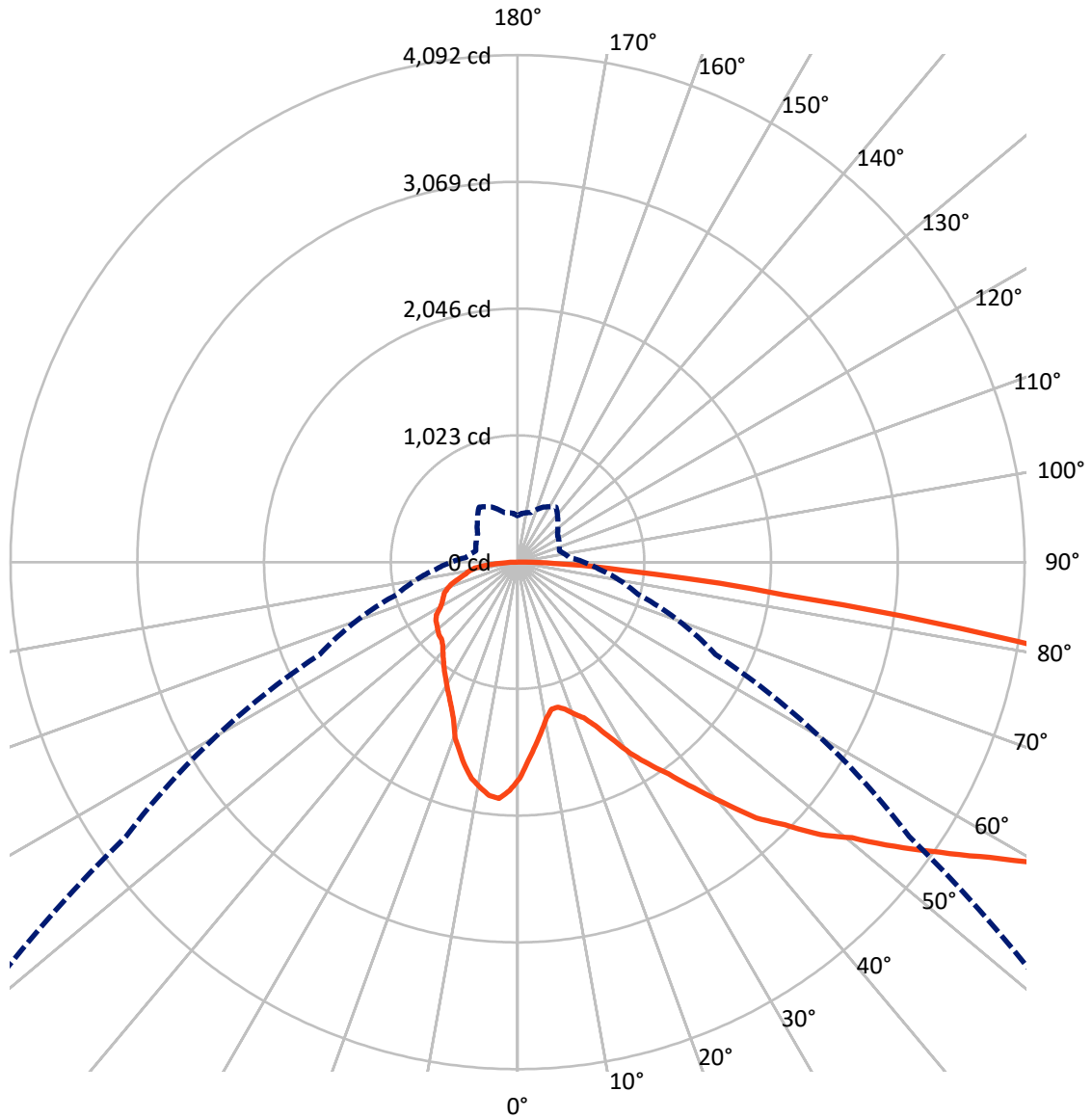
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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
House Side	Lumens	2630.6	0.0	2630.6
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9547.2	0.0	9547.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	12177.8	0.0	12177.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	1.3
10°-20°	451.0	3.7
20°-30°	742.2	6.1
30°-40°	1110.0	9.1
40°-50°	1645.5	13.5
50°-60°	2371.3	19.5
60°-70°	3026.1	24.8
70°-80°	2354.8	19.3
80°-90°	315.9	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°	12177.8	100.0
0°-180°	12177.8	100.0

Coefficient of Utilization



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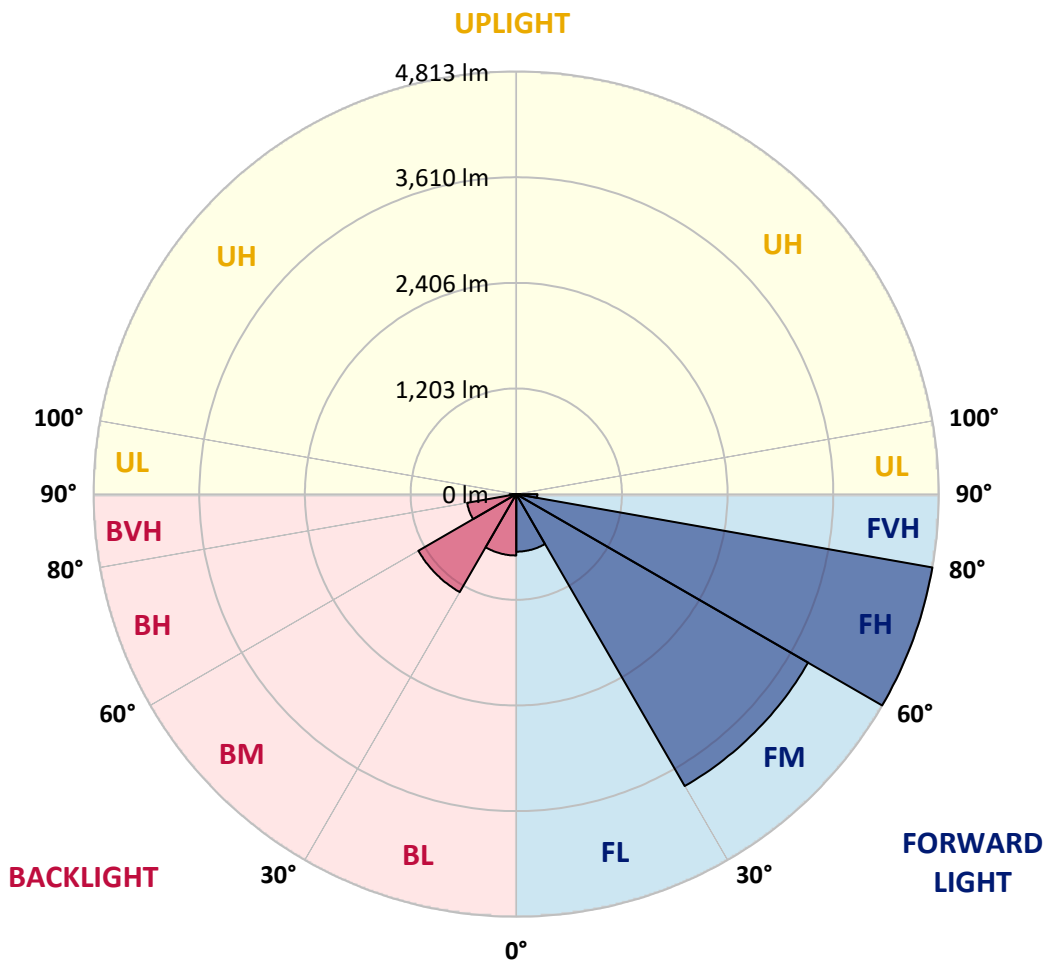
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	655.4	5.4			
FM (30°-60°)	3838.5	31.5			
FH (60°-80°)	4812.9	39.5			G2/5000
FVH (80°-90°)	240.5	2.0			G3/500
BL (0°-30°)	698.9	5.7	B2/1000		
BM (30°-60°)	1288.2	10.6	B2/2500		
BH (60°-80°)	568.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	75.4	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°	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9
2.5°	1564.3	1569.5	1586.2	1590.1	1608.1	1597.8	1619.7	1658.3	1680.2	1712.4	1751.0
5°	1440.7	1418.8	1429.1	1469.1	1489.7	1494.8	1518.0	1583.6	1624.9	1672.5	1744.6
7.5°	1295.2	1291.4	1312.0	1337.7	1378.9	1382.8	1434.3	1492.2	1577.2	1682.8	1767.8
10°	1196.1	1212.8	1224.4	1251.5	1279.8	1279.8	1345.5	1445.9	1542.4	1644.2	1772.9
12.5°	1191.0	1180.7	1183.2	1197.4	1218.0	1243.7	1305.5	1395.7	1518.0	1636.4	1794.8
15°	1207.7	1211.6	1188.4	1206.4	1214.1	1223.1	1291.4	1393.1	1502.5	1663.5	1832.1
17.5°	1296.5	1274.6	1238.6	1221.9	1248.9	1248.9	1295.2	1375.1	1505.1	1677.6	1886.2
20°	1366.1	1366.1	1306.8	1288.8	1308.1	1304.3	1336.4	1395.7	1518.0	1706.0	1946.7
22.5°	1483.2	1500.0	1402.1	1364.8	1363.5	1373.8	1402.1	1452.3	1554.0	1745.9	2004.7
25°	1651.9	1655.8	1542.4	1503.8	1462.6	1479.4	1484.5	1534.7	1586.2	1792.2	2070.3
27.5°	1839.9	1837.3	1733.0	1636.4	1609.4	1613.3	1584.9	1618.4	1633.9	1806.4	2164.3
30°	2048.4	2025.3	1946.7	1810.3	1788.4	1763.9	1702.1	1700.8	1733.0	1886.2	2294.4
32.5°	2184.9	2155.3	2101.2	2003.4	1942.9	1945.4	1847.6	1846.3	1818.0	1973.8	2407.7
35°	2318.8	2273.8	2259.6	2159.2	2098.7	2105.1	2026.6	2016.3	1964.8	2106.4	2594.4
37.5°	2479.8	2439.9	2461.7	2385.8	2311.1	2280.2	2244.1	2231.3	2164.3	2293.1	2849.3
40°	2657.4	2644.6	2630.4	2593.1	2548.0	2550.6	2512.0	2499.1	2399.9	2518.4	3093.9
42.5°	2896.9	2848.0	2774.6	2799.1	2822.2	2846.7	2833.8	2800.4	2697.4	2747.6	3366.9
45°	3119.7	3055.3	2920.1	2927.8	3023.1	3042.4	3198.2	3194.3	2987.0	3038.5	3677.2
47.5°	3270.3	3240.7	3159.6	3150.6	3287.0	3285.8	3566.4	3566.4	3292.2	3328.2	4010.6
50°	3494.3	3417.1	3382.3	3427.4	3496.9	3544.5	3942.4	3966.8	3592.2	3630.8	4447.1
52.5°	3757.0	3660.4	3572.9	3688.7	3812.3	3843.2	4314.5	4304.2	3822.6	3982.3	4958.2
55°	3974.6	3925.6	3865.1	3932.1	4134.2	4172.9	4687.9	4592.6	4053.1	4273.3	5204.2
57.5°	4228.2	4257.8	4270.7	4254.0	4494.7	4555.2	5114.0	4841.1	4251.4	4469.0	5348.4
60°	4610.6	4628.6	4645.4	4685.3	4940.2	5025.2	5451.4	5152.7	4376.3	4582.3	5359.9
62.5°	5192.6	5123.0	5160.4	5298.1	5502.9	5599.4	5948.3	5371.5	4471.6	4650.5	4981.4
65°	5858.2	5764.2	5725.6	5903.3	6433.7	6356.5	6568.9	5535.0	4333.8	4395.6	4224.4
67.5°	6532.9	6543.2	6444.0	6800.7	7450.9	7450.9	7145.7	5613.6	3960.4	3562.6	2962.6
70°	7068.5	7100.7	7154.7	7846.1	8876.2	9032.0	7860.3	5291.7	3199.5	2371.6	1619.7
72.5°	7060.8	6964.2	7241.0	8514.4	10171.4	10041.4	8009.7	4184.4	1996.9	1161.3	742.9
73°	6902.4	6821.3	7123.8	8507.9	10224.2	10101.9	7900.2	3857.4	1761.3	1006.8	660.5
75°	5636.8	5490.0	6005.0	7705.8	9459.4	9553.4	6711.8	2515.8	965.6	620.6	464.8
77.5°	2569.9	2634.3	3305.1	5169.4	7289.9	7400.7	4412.3	1088.0	529.2	435.2	342.5
80°	825.3	866.5	1286.2	2569.9	4569.4	4769.0	2039.4	494.4	377.2	333.5	256.2
82.5°	315.4	314.2	539.5	1068.6	2165.6	2293.1	745.5	301.3	280.7	245.9	181.5
85°	110.7	115.9	203.4	422.3	852.3	892.3	258.8	167.4	194.4	164.8	104.3
87.5°	38.6	39.9	72.1	153.2	293.6	310.3	72.1	67.0	96.6	95.3	52.8
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°	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9	1745.9
2.5°	1763.9	1775.5	1779.4	1825.7	1825.7	1825.7	1843.7	1843.7	1838.6	1825.7	1856.6
5°	1771.6	1792.2	1832.1	1872.1	1882.4	1891.4	1915.8	1895.2	1903.0	1890.1	1901.7
7.5°	1793.5	1821.8	1896.5	1921.0	1904.2	1923.6	1897.8	1883.6	1869.5	1874.6	1856.6
10°	1830.9	1866.9	1901.7	1946.7	1914.5	1895.2	1842.4	1829.6	1784.5	1769.1	1783.2
12.5°	1877.2	1921.0	1980.2	1963.5	1901.7	1846.3	1789.7	1735.6	1708.5	1669.9	1680.2
15°	1923.6	1973.8	1982.8	1954.5	1877.2	1807.7	1704.7	1628.7	1601.7	1566.9	1584.9
17.5°	1973.8	2021.4	2006.0	1932.6	1828.3	1722.7	1605.5	1530.9	1474.2	1452.3	1452.3
20°	2048.4	2071.6	2047.2	1896.5	1769.1	1630.0	1516.7	1431.7	1375.1	1366.1	1351.9
22.5°	2106.4	2143.7	2034.3	1843.7	1682.8	1509.0	1378.9	1346.7	1330.0	1315.8	1297.8
25°	2181.1	2179.8	2011.1	1794.8	1534.7	1364.8	1286.2	1283.7	1275.9	1270.8	1295.2
27.5°	2251.9	2222.3	1984.1	1673.8	1381.5	1255.3	1212.8	1241.2	1252.8	1245.0	1255.3
30°	2363.9	2315.0	1945.4	1545.0	1246.3	1144.6	1152.3	1191.0	1210.3	1221.9	1206.4
32.5°	2482.3	2407.7	1865.6	1411.1	1126.6	1075.1	1093.1	1133.0	1156.2	1169.1	1183.2
35°	2653.6	2479.8	1784.5	1236.0	1040.3	1032.6	1042.9	1064.8	1098.3	1107.3	1111.1
37.5°	2864.7	2589.2	1675.1	1095.7	973.4	982.4	992.7	1000.4	1001.7	1018.4	1012.0
40°	3075.9	2681.9	1515.4	961.8	903.8	952.8	947.6	933.5	921.9	906.4	902.6
42.5°	3261.3	2763.0	1337.7	848.5	842.0	921.9	905.1	869.1	842.0	830.5	811.1
45°	3469.9	2877.6	1158.8	777.7	794.4	884.5	879.4	824.0	789.2	748.0	742.9
47.5°	3740.2	2997.3	987.5	704.3	749.3	870.4	872.9	802.1	751.9	696.5	688.8
50°	4086.6	3169.9	857.5	673.4	722.3	849.8	853.6	772.5	706.8	650.2	645.0
52.5°	4418.8	3346.3	749.3	625.7	704.3	825.3	834.3	745.5	669.5	598.7	602.6
55°	4586.1	3281.9	656.6	591.0	663.1	785.4	818.9	726.2	612.9	563.9	562.6
57.5°	4623.5	3123.5	583.2	554.9	628.3	742.9	793.1	668.2	587.1	545.9	540.8
60°	4501.2	2846.7	525.3	516.3	584.5	699.1	733.9	637.3	561.4	527.9	520.2
62.5°	4199.9	2559.6	485.4	498.3	547.2	651.5	696.5	615.4	536.9	513.7	497.0
65°	3444.1	2105.1	453.2	463.5	508.6	605.1	673.4	591.0	515.0	493.1	491.8
67.5°	2385.8	1451.0	427.5	446.8	477.7	571.7	650.2	563.9	486.7	479.0	468.7
70°	1221.9	773.8	394.0	409.4	444.2	529.2	609.0	535.6	457.1	455.8	442.9
72.5°	619.3	453.2	355.4	378.5	403.0	473.8	557.5	498.3	419.7	405.6	385.0
73°	535.6	419.7	348.9	369.5	392.7	458.4	542.0	489.3	414.6	394.0	374.7
75°	390.1	330.9	312.9	333.5	351.5	413.3	490.5	448.1	381.1	359.2	341.2
77.5°	292.3	254.9	260.1	283.3	298.7	356.6	436.5	405.6	345.1	315.4	307.7
80°	215.0	194.4	215.0	236.9	248.5	314.2	397.8	351.5	291.0	257.5	251.1
82.5°	153.2	141.6	166.1	180.3	185.4	260.1	357.9	280.7	220.2	176.4	162.2
85°	87.6	86.3	112.0	110.7	114.6	151.9	235.6	186.7	141.6	108.2	105.6
87.5°	38.6	42.5	56.7	45.1	47.6	72.1	100.4	69.5	57.9	32.2	24.5
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)