

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: P478465

Luminaire Tested: **IFLD-S-SA2C-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478465
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

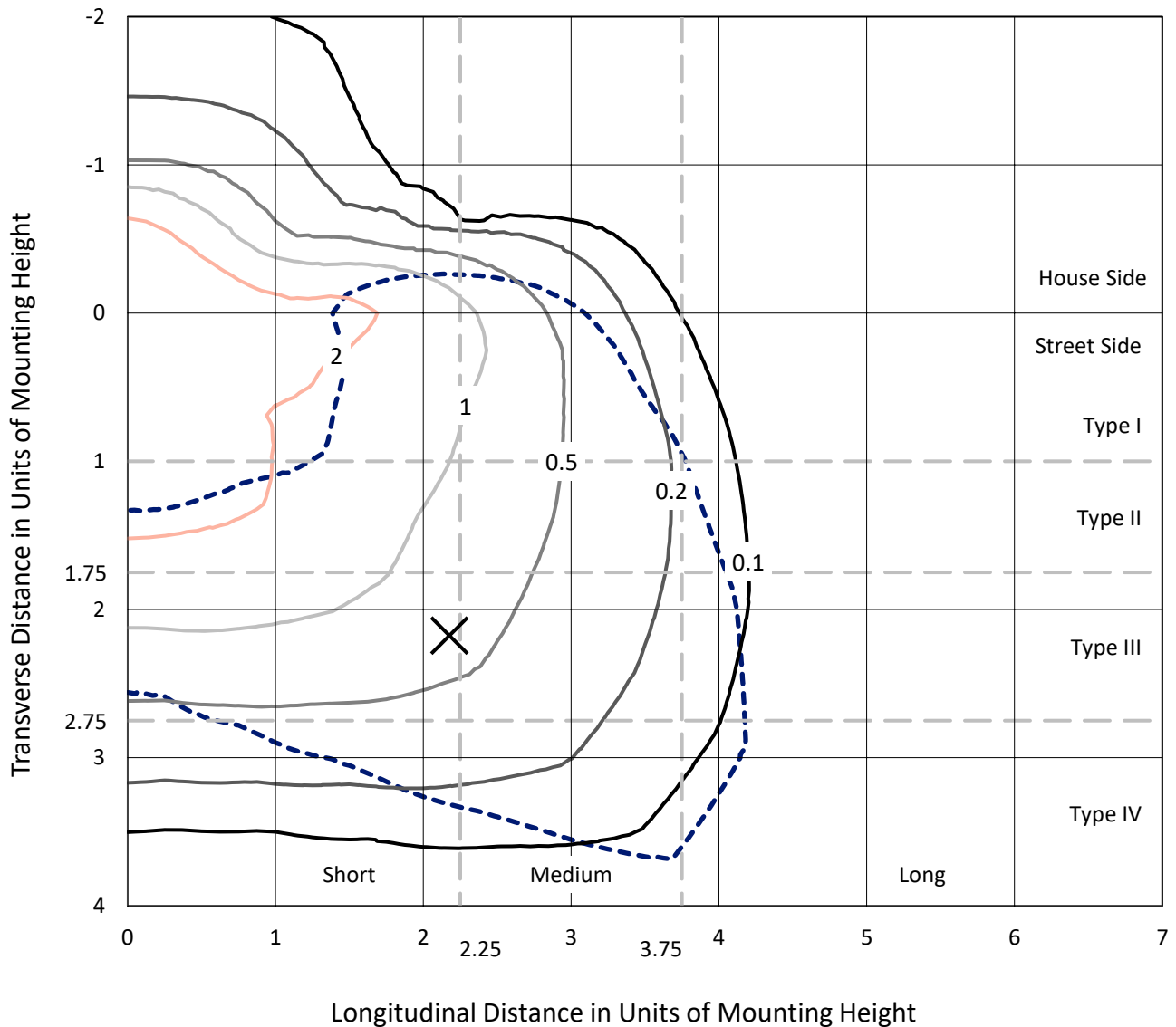
Lumens per Lamp: N/A
Luminaire Lumens: 13082.2 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (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

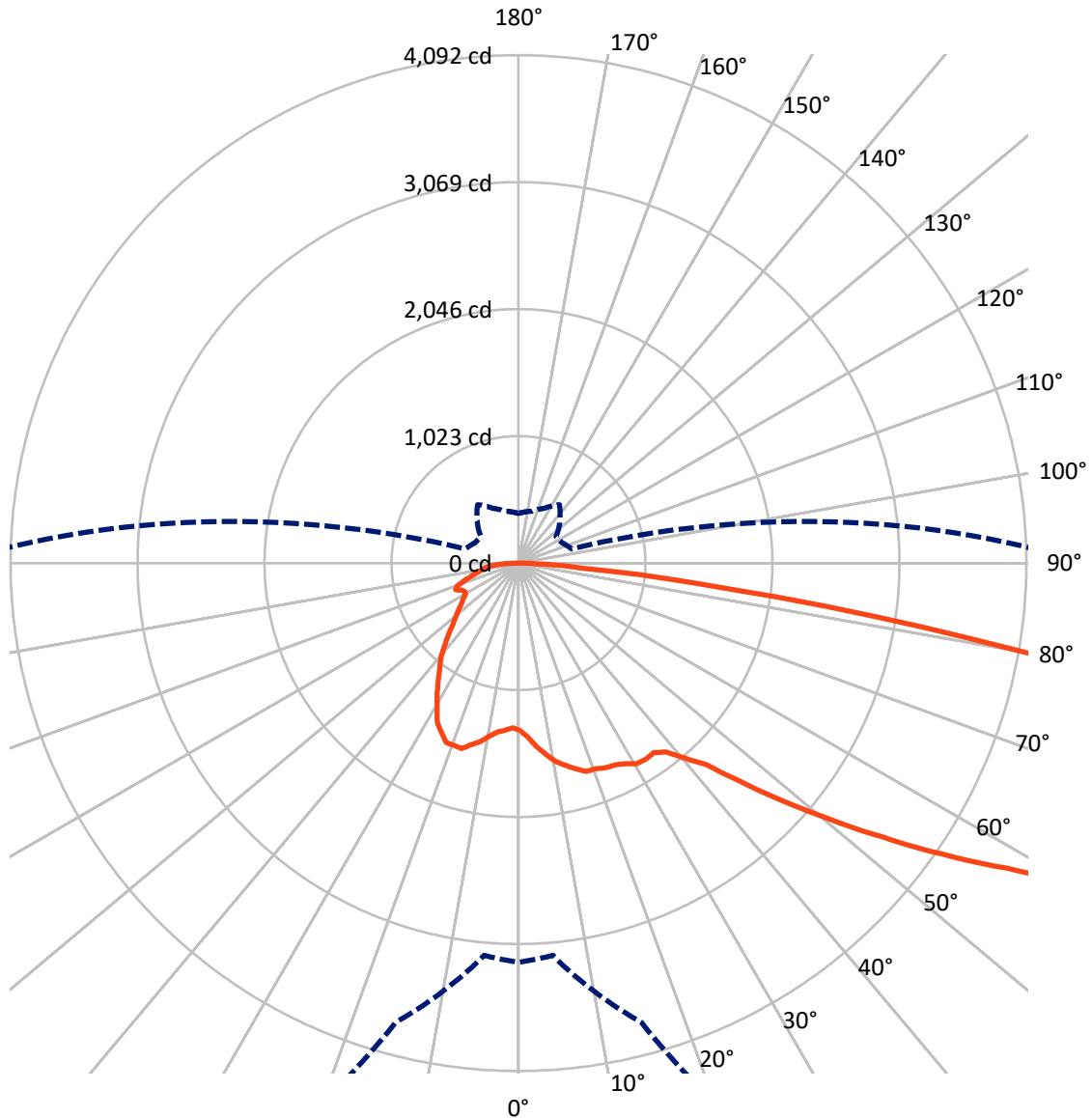
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	2912.2	0.0	2912.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10170.1	0.0	10170.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	13082.2	0.0	13082.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	1.1
10°-20°	458.7	3.5
20°-30°	774.6	5.9
30°-40°	1071.9	8.2
40°-50°	1533.2	11.7
50°-60°	2472.9	18.9
60°-70°	3647.1	27.9
70°-80°	2648.5	20.2
80°-90°	337.6	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°	13082.2	100.0
0°-180°	13082.2	100.0

Coefficient of Utilization



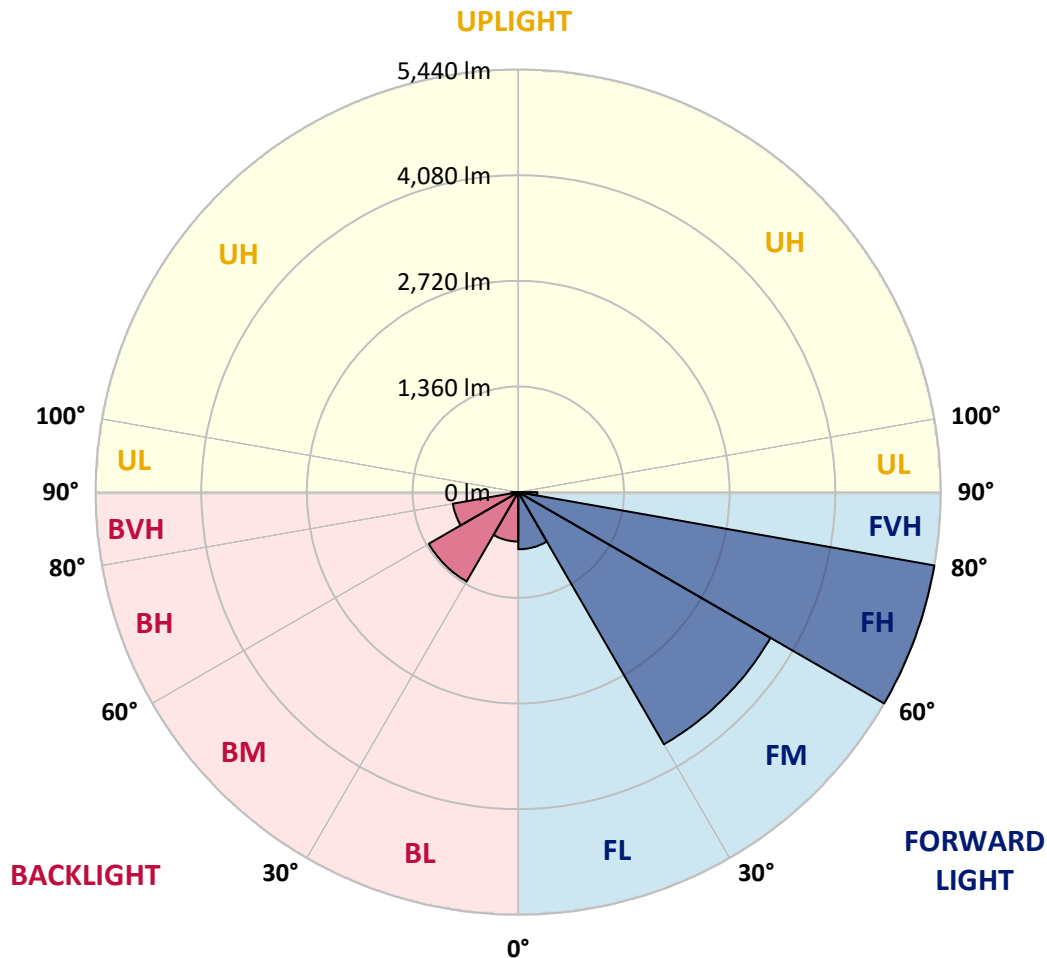
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.2	5.6			
FM (30°-60°)	3748.9	28.7			
FH (60°-80°)	5440.2	41.6			G3/7500
FVH (80°-90°)	245.7	1.9			G3/500
BL (0°-30°)	635.9	4.9	B2/1000		
BM (30°-60°)	1329.0	10.2	B2/2500		
BH (60°-80°)	855.4	6.5	B2/1000		G2/1000
BVH (80°-90°)	91.9	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°	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2
2.5°	1419.2	1427.6	1419.2	1417.8	1403.7	1393.8	1402.3	1389.6	1375.4	1369.8	1357.1
5°	1549.0	1550.4	1534.9	1536.3	1506.6	1475.6	1481.3	1443.2	1402.3	1386.7	1361.3
7.5°	1681.6	1666.1	1643.5	1636.4	1589.9	1556.0	1551.8	1517.9	1454.4	1419.2	1383.9
10°	1767.6	1773.3	1736.6	1705.6	1666.1	1625.1	1623.7	1560.3	1523.6	1471.4	1426.2
12.5°	1843.8	1845.2	1814.2	1764.8	1715.4	1664.6	1671.7	1643.5	1581.4	1532.0	1486.9
15°	1903.1	1894.6	1860.7	1815.6	1763.4	1723.9	1719.7	1695.7	1643.5	1602.6	1527.8
17.5°	1920.0	1915.8	1881.9	1833.9	1783.1	1753.5	1764.8	1725.3	1704.1	1667.5	1595.5
20°	1887.5	1877.7	1872.0	1818.4	1781.7	1778.9	1769.0	1777.5	1742.2	1708.4	1656.2
22.5°	1828.3	1824.1	1821.2	1778.9	1762.0	1774.7	1791.6	1804.3	1798.7	1766.2	1707.0
25°	1767.6	1787.4	1769.0	1749.3	1773.3	1805.7	1801.5	1842.4	1842.4	1832.5	1783.1
27.5°	1809.9	1797.3	1783.1	1773.3	1781.7	1832.5	1829.7	1879.1	1897.4	1879.1	1822.6
30°	1915.8	1903.1	1862.1	1818.4	1807.1	1862.1	1876.3	1920.0	1928.4	1883.3	1835.3
32.5°	2114.7	2107.6	2042.7	1914.3	1845.2	1876.3	1883.3	1932.7	1925.6	1897.4	1877.7
35°	2409.5	2385.5	2295.2	2078.0	1925.6	1894.6	1876.3	1915.8	1942.6	1928.4	1910.1
37.5°	2732.6	2705.8	2594.3	2319.2	2070.9	1944.0	1929.9	1962.3	1993.3	1986.3	1948.2
40°	3041.5	3041.5	2941.3	2621.1	2286.8	2063.9	2066.7	2030.0	2058.2	2045.5	2052.6
42.5°	3346.2	3334.9	3294.0	2975.2	2518.1	2264.2	2219.1	2127.4	2178.1	2173.9	2183.8
45°	3655.2	3646.7	3635.4	3305.3	2849.6	2535.1	2511.1	2346.0	2392.6	2372.8	2415.1
47.5°	3902.0	3911.9	3911.9	3673.5	3203.7	2896.2	2860.9	2600.0	2688.8	2698.7	2708.6
50°	4112.2	4116.5	4112.2	4024.8	3598.7	3309.5	3237.6	2972.4	3061.3	3138.8	3229.1
52.5°	4402.8	4408.5	4388.7	4354.9	4134.8	3744.0	3663.6	3368.8	3550.8	3632.6	3794.8
55°	4761.2	4718.8	4682.2	4707.6	4649.7	4222.3	4139.0	3777.9	4051.6	4160.2	4484.7
57.5°	4827.5	4864.1	4957.3	5159.0	5242.2	4687.8	4639.8	4280.1	4617.3	4711.8	5253.5
60°	5061.7	5001.0	5229.5	5666.8	5760.0	5294.4	5245.0	4830.3	5180.2	5278.9	5963.1
62.5°	5215.4	5212.6	5551.2	6070.3	6281.9	5923.6	5823.4	5545.5	5788.2	5884.1	6736.2
65°	5170.3	5211.2	5812.2	6307.3	6717.8	6638.8	6581.0	6160.6	6480.8	6472.4	7239.8
67.5°	4758.3	4874.0	5647.1	6478.0	7366.8	7510.7	7492.3	7025.4	7043.7	6864.5	7464.1
70°	4187.0	4147.5	4948.8	6300.3	7691.2	8544.7	8540.5	7668.7	7550.2	6950.6	6820.8
72°	3216.4	3172.7	3831.5	5410.1	7520.5	8958.0	9085.0	8114.4	7544.5	6593.7	5634.4
72.5°	2920.2	2882.1	3538.1	5092.7	7331.5	9065.3	9006.0	8131.4	7485.3	6425.8	5263.4
75°	1344.4	1300.7	1767.6	3117.7	5719.0	8032.6	8234.4	7609.4	6537.3	5115.3	3153.0
77.5°	400.6	387.9	568.5	1258.4	3323.6	5918.0	5995.5	5741.6	4563.7	2801.7	1169.5
80°	222.9	224.3	293.4	471.2	1461.5	3421.0	3700.3	3546.5	2238.8	925.4	389.4
82.5°	124.1	131.2	183.4	279.3	671.5	1570.1	1690.0	1629.4	809.8	434.5	213.0
85°	64.9	67.7	95.9	149.5	380.9	496.6	510.7	547.4	420.4	296.3	114.3
87.5°	25.4	25.4	35.3	62.1	141.1	153.8	138.3	167.9	241.2	191.9	56.4
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°	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2	1347.2
2.5°	1368.4	1357.1	1355.7	1337.4	1343.0	1327.5	1328.9	1326.1	1327.5	1324.7	1317.6
5°	1361.3	1352.9	1328.9	1344.4	1330.3	1350.1	1365.6	1359.9	1364.2	1362.8	1364.2
7.5°	1371.2	1359.9	1357.1	1348.6	1361.3	1369.8	1382.5	1417.8	1414.9	1419.2	1427.6
10°	1400.8	1388.1	1379.7	1392.4	1385.3	1412.1	1426.2	1444.6	1477.0	1478.4	1461.5
12.5°	1458.7	1450.2	1433.3	1436.1	1460.1	1468.6	1477.0	1488.3	1509.5	1505.2	1520.8
15°	1525.0	1506.6	1496.8	1493.9	1499.6	1509.5	1508.1	1519.3	1530.6	1540.5	1536.3
17.5°	1572.9	1549.0	1551.8	1565.9	1564.5	1561.7	1543.3	1537.7	1543.3	1549.0	1546.1
20°	1622.3	1625.1	1604.0	1591.3	1585.6	1557.4	1543.3	1526.4	1509.5	1517.9	1530.6
22.5°	1684.4	1671.7	1640.7	1602.6	1574.4	1557.4	1513.7	1484.1	1484.1	1492.5	1488.3
25°	1754.9	1728.1	1674.5	1605.4	1570.1	1498.2	1467.1	1462.9	1451.6	1464.3	1470.0
27.5°	1809.9	1786.0	1712.6	1595.5	1498.2	1440.3	1422.0	1416.4	1434.7	1436.1	1458.7
30°	1832.5	1825.5	1718.3	1570.1	1424.8	1331.7	1320.4	1345.8	1365.6	1395.2	1396.6
32.5°	1862.1	1865.0	1726.7	1510.9	1328.9	1235.8	1218.9	1249.9	1306.3	1330.3	1348.6
35°	1911.5	1925.6	1719.7	1437.5	1227.3	1138.4	1135.6	1144.1	1199.1	1241.4	1265.4
37.5°	1997.6	1994.8	1718.3	1350.1	1146.9	1053.8	1031.2	1034.1	1070.7	1106.0	1101.8
40°	2113.3	2102.0	1714.0	1235.8	1042.5	981.9	943.8	929.7	926.8	917.0	919.8
42.5°	2271.3	2248.7	1712.6	1120.1	948.0	883.1	856.3	819.6	792.8	742.0	744.9
45°	2491.3	2451.8	1675.9	1011.5	854.9	801.3	760.4	733.6	675.7	612.3	612.3
47.5°	2831.3	2702.9	1677.3	891.6	764.6	720.9	692.7	646.1	584.0	533.3	527.6
50°	3332.1	3038.7	1629.4	797.1	691.3	661.6	632.0	578.4	519.1	483.9	488.1
52.5°	3978.2	3539.5	1628.0	712.4	633.4	612.3	579.8	531.8	488.1	465.5	457.1
55°	4748.5	4202.5	1678.8	643.3	574.2	562.9	548.8	509.3	466.9	447.2	445.8
57.5°	5537.1	4850.0	1760.6	593.9	523.4	531.8	522.0	490.9	457.1	434.5	431.7
60°	6238.2	5363.5	1595.5	534.7	478.2	496.6	510.7	483.9	465.5	464.1	454.3
62.5°	6767.2	5583.6	1213.2	489.5	454.3	488.1	526.2	543.1	534.7	545.9	547.4
65°	6960.5	5451.0	835.1	465.5	435.9	507.9	592.5	586.9	537.5	516.3	527.6
67.5°	6689.6	4913.5	619.3	437.3	423.2	548.8	630.6	560.1	485.3	482.5	474.0
70°	5752.9	4164.4	505.0	407.7	402.1	526.2	613.7	519.1	457.1	438.7	430.3
72°	4583.4	3243.2	443.0	386.5	368.2	469.8	574.2	486.7	433.1	410.5	400.6
72.5°	4184.2	3006.2	434.5	376.7	361.1	457.1	554.4	476.8	427.4	407.7	392.2
75°	2295.2	1539.1	382.3	345.6	304.7	395.0	513.5	447.2	403.5	375.3	372.4
77.5°	853.5	596.7	330.1	306.1	263.8	341.4	466.9	424.6	366.8	331.5	324.5
80°	327.3	314.6	269.4	258.2	221.5	299.1	430.3	380.9	311.8	276.5	265.2
82.5°	198.9	183.4	204.6	201.7	169.3	272.3	404.9	356.9	276.5	224.3	217.3
85°	108.6	108.6	142.5	136.8	118.5	217.3	306.1	237.0	174.9	143.9	146.7
87.5°	48.0	56.4	76.2	71.9	64.9	122.7	149.5	125.6	87.5	59.3	63.5
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)