

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: P478703

Luminaire Tested: **IFLD-S-SA3B-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478703
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

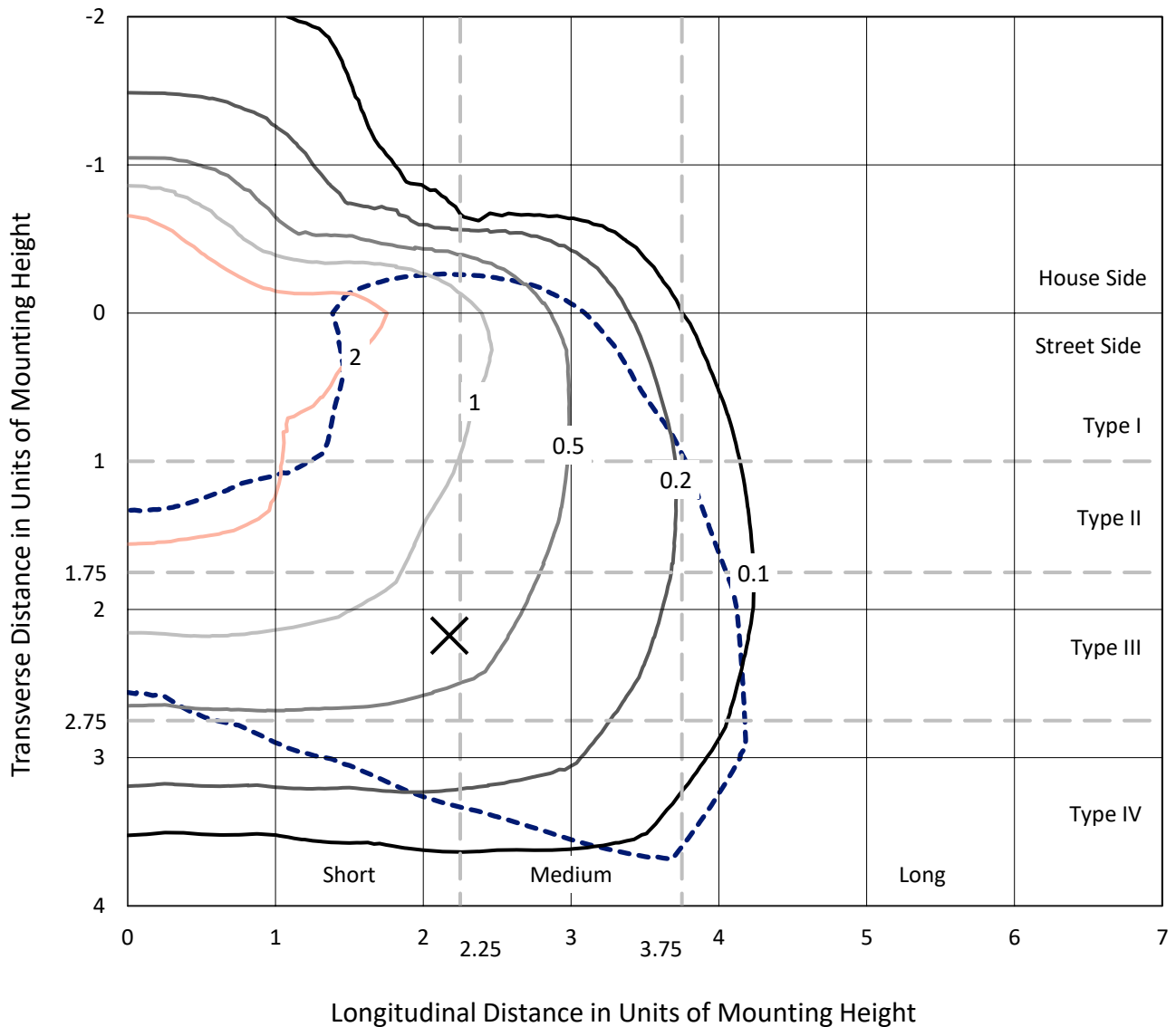
Lumens per Lamp: N/A
Luminaire Lumens: 13666.6 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (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

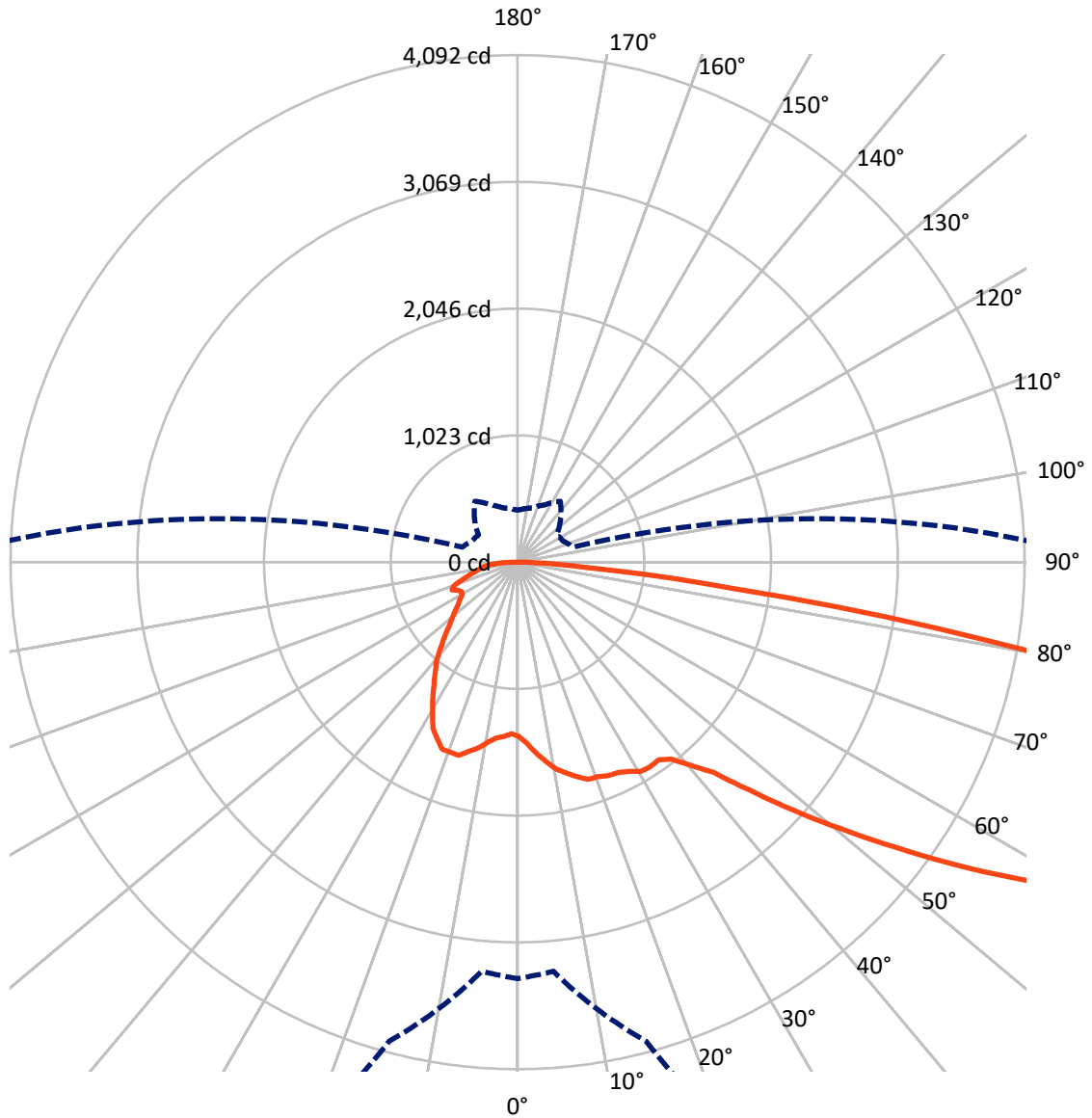
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	3042.3	0.0	3042.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10624.3	0.0	10624.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	13666.6	0.0	13666.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.1
10°-20°	479.2	3.5
20°-30°	809.2	5.9
30°-40°	1119.7	8.2
40°-50°	1601.7	11.7
50°-60°	2583.3	18.9
60°-70°	3810.0	27.9
70°-80°	2766.7	20.2
80°-90°	352.7	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°	13666.6	100.0
0°-180°	13666.6	100.0

Coefficient of Utilization



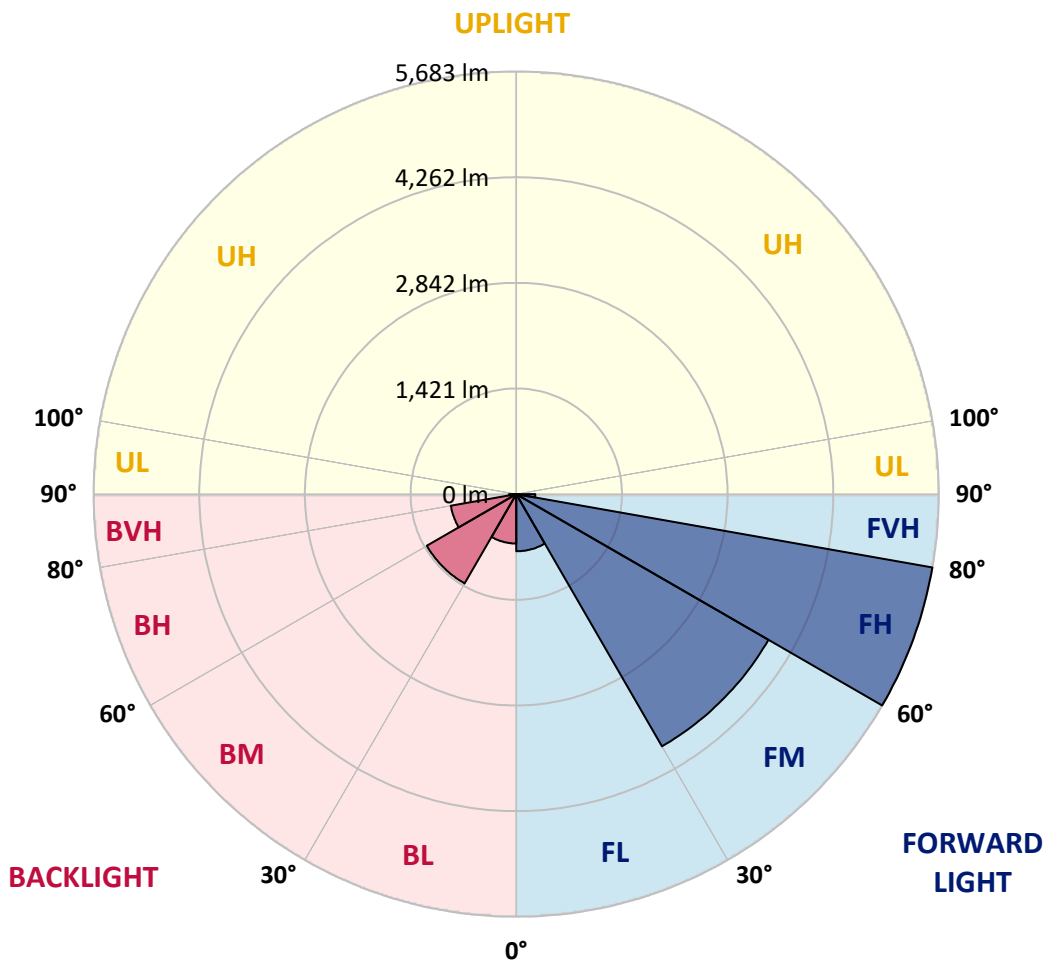
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.1	5.6			
FM (30°-60°)	3916.4	28.7			
FH (60°-80°)	5683.2	41.6			G3/7500
FVH (80°-90°)	256.7	1.9			G3/500
BL (0°-30°)	664.3	4.9	B2/1000		
BM (30°-60°)	1388.4	10.2	B2/2500		
BH (60°-80°)	893.6	6.5	B2/1000		G2/1000
BVH (80°-90°)	96.0	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°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1482.6	1491.4	1482.6	1481.1	1466.4	1456.0	1464.9	1451.6	1436.9	1431.0	1417.7
5°	1618.2	1619.6	1603.4	1604.9	1573.9	1541.5	1547.4	1507.6	1464.9	1448.7	1422.1
7.5°	1756.7	1740.5	1716.9	1709.5	1660.9	1625.5	1621.1	1585.7	1519.4	1482.6	1445.7
10°	1846.6	1852.5	1814.2	1781.7	1740.5	1697.7	1696.3	1629.9	1591.6	1537.1	1489.9
12.5°	1926.2	1927.6	1895.2	1843.6	1792.1	1739.0	1746.4	1716.9	1652.0	1600.5	1553.3
15°	1988.1	1979.2	1943.8	1896.7	1842.2	1800.9	1796.5	1771.4	1716.9	1674.2	1596.0
17.5°	2005.7	2001.3	1965.9	1915.8	1862.8	1831.8	1843.6	1802.4	1780.3	1741.9	1666.8
20°	1971.8	1961.5	1955.6	1899.6	1861.3	1858.4	1848.1	1856.9	1820.1	1784.7	1730.2
22.5°	1909.9	1905.5	1902.6	1858.4	1840.7	1853.9	1871.6	1884.9	1879.0	1845.1	1783.2
25°	1846.6	1867.2	1848.1	1827.4	1852.5	1886.4	1881.9	1924.7	1924.7	1914.4	1862.8
27.5°	1890.8	1877.5	1862.8	1852.5	1861.3	1914.4	1911.4	1963.0	1982.2	1963.0	1904.1
30°	2001.3	1988.1	1945.3	1899.6	1887.8	1945.3	1960.1	2005.7	2014.6	1967.4	1917.3
32.5°	2209.1	2201.7	2134.0	1999.8	1927.6	1960.1	1967.4	2019.0	2011.6	1982.2	1961.5
35°	2517.1	2492.1	2397.8	2170.8	2011.6	1979.2	1960.1	2001.3	2029.3	2014.6	1995.4
37.5°	2854.6	2826.6	2710.2	2422.8	2163.4	2030.8	2016.1	2050.0	2082.4	2075.0	2035.2
40°	3177.4	3177.4	3072.7	2738.2	2388.9	2156.1	2159.0	2120.7	2150.2	2136.9	2144.3
42.5°	3495.7	3483.9	3441.1	3108.1	2630.6	2365.3	2318.2	2222.4	2275.4	2271.0	2281.3
45°	3818.4	3809.6	3797.8	3452.9	2976.9	2648.3	2623.2	2450.8	2499.4	2478.8	2523.0
47.5°	4076.3	4086.6	4086.6	3837.6	3346.8	3025.6	2988.7	2716.1	2808.9	2819.2	2829.6
50°	4295.9	4300.3	4295.9	4204.5	3759.5	3457.4	3382.2	3105.1	3198.0	3279.0	3373.4
52.5°	4599.5	4605.4	4584.8	4549.4	4319.5	3911.3	3827.3	3519.3	3709.4	3794.8	3964.3
55°	4973.8	4929.6	4891.3	4917.8	4857.4	4410.9	4323.9	3946.6	4232.5	4346.0	4685.0
57.5°	5043.1	5081.4	5178.7	5389.4	5476.4	4897.2	4847.1	4471.3	4823.5	4922.2	5488.2
60°	5287.7	5224.4	5463.1	5920.0	6017.2	5530.9	5479.3	5046.0	5411.5	5514.7	6229.4
62.5°	5448.4	5445.4	5799.1	6341.4	6562.5	6188.2	6083.5	5793.2	6046.7	6146.9	7037.0
65°	5401.2	5443.9	6071.7	6589.0	7017.9	6935.4	6874.9	6435.8	6770.3	6761.5	7563.2
67.5°	4970.9	5091.7	5899.3	6767.3	7695.8	7846.1	7827.0	7339.2	7358.3	7171.1	7797.5
70°	4374.0	4332.8	5169.8	6581.7	8034.8	8926.4	8921.9	8011.2	7887.4	7261.0	7125.5
72°	3360.1	3314.4	4002.6	5651.7	7856.4	9358.2	9490.8	8476.9	7881.5	6888.2	5886.1
72.5°	3050.6	3010.8	3696.1	5320.1	7659.0	9470.2	9408.3	8494.6	7819.6	6712.8	5498.5
75°	1404.5	1358.8	1846.6	3256.9	5974.5	8391.4	8602.1	7949.3	6829.2	5343.7	3293.8
77.5°	418.5	405.3	593.9	1314.6	3472.1	6182.3	6263.3	5998.1	4767.5	2926.8	1221.7
80°	232.8	234.3	306.5	492.2	1526.8	3573.8	3865.6	3704.9	2338.8	966.8	406.7
82.5°	129.7	137.1	191.6	291.8	701.5	1640.3	1765.5	1702.2	845.9	453.9	222.5
85°	67.8	70.7	100.2	156.2	397.9	518.8	533.5	571.8	439.2	309.5	119.4
87.5°	26.5	26.5	36.8	64.8	147.4	160.6	144.4	175.4	252.0	200.4	58.9
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°	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4	1407.4
2.5°	1429.5	1417.7	1416.3	1397.1	1403.0	1386.8	1388.2	1385.3	1386.8	1383.8	1376.5
5°	1422.1	1413.3	1388.2	1404.5	1389.7	1410.4	1426.6	1420.7	1425.1	1423.6	1425.1
7.5°	1432.5	1420.7	1417.7	1408.9	1422.1	1431.0	1444.3	1481.1	1478.1	1482.6	1491.4
10°	1463.4	1450.1	1441.3	1454.6	1447.2	1475.2	1489.9	1509.1	1543.0	1544.5	1526.8
12.5°	1523.8	1515.0	1497.3	1500.3	1525.3	1534.1	1543.0	1554.8	1576.9	1572.5	1588.7
15°	1593.1	1573.9	1563.6	1560.7	1566.6	1576.9	1575.4	1587.2	1599.0	1609.3	1604.9
17.5°	1643.2	1618.2	1621.1	1635.8	1634.4	1631.4	1612.3	1606.4	1612.3	1618.2	1615.2
20°	1694.8	1697.7	1675.6	1662.4	1656.5	1627.0	1612.3	1594.6	1576.9	1585.7	1599.0
22.5°	1759.6	1746.4	1713.9	1674.2	1644.7	1627.0	1581.3	1550.4	1550.4	1559.2	1554.8
25°	1833.3	1805.3	1749.3	1677.1	1640.3	1565.1	1532.7	1528.3	1516.5	1529.7	1535.6
27.5°	1890.8	1865.7	1789.1	1666.8	1565.1	1504.7	1485.5	1479.6	1498.8	1500.3	1523.8
30°	1914.4	1907.0	1795.0	1640.3	1488.5	1391.2	1379.4	1405.9	1426.6	1457.5	1459.0
32.5°	1945.3	1948.3	1803.8	1578.4	1388.2	1291.0	1273.3	1305.7	1364.7	1389.7	1408.9
35°	1996.9	2011.6	1796.5	1501.7	1282.1	1189.3	1186.3	1195.2	1252.7	1296.9	1321.9
37.5°	2086.8	2083.8	1795.0	1410.4	1198.1	1100.9	1077.3	1080.2	1118.6	1155.4	1151.0
40°	2207.6	2195.9	1790.6	1291.0	1089.1	1025.7	985.9	971.2	968.2	957.9	960.9
42.5°	2372.7	2349.1	1789.1	1170.1	990.3	922.6	894.6	856.2	828.2	775.2	778.1
45°	2602.6	2561.3	1750.8	1056.7	893.1	837.1	794.3	766.3	705.9	639.6	639.6
47.5°	2957.8	2823.7	1752.3	931.4	798.8	753.1	723.6	675.0	610.1	557.1	551.2
50°	3480.9	3174.4	1702.2	832.7	722.1	691.2	660.2	604.2	542.3	505.5	509.9
52.5°	4155.9	3697.6	1700.7	744.2	661.7	639.6	605.7	555.6	509.9	486.3	477.5
55°	4960.6	4390.2	1753.7	672.0	599.8	588.0	573.3	532.0	487.8	467.2	465.7
57.5°	5784.4	5066.7	1839.2	620.4	546.8	555.6	545.3	512.9	477.5	453.9	451.0
60°	6516.8	5603.1	1666.8	558.5	499.6	518.8	533.5	505.5	486.3	484.9	474.5
62.5°	7069.5	5833.0	1267.4	511.4	474.5	509.9	549.7	567.4	558.5	570.3	571.8
65°	7271.4	5694.5	872.4	486.3	455.4	530.5	619.0	613.1	561.5	539.4	551.2
67.5°	6988.4	5133.0	647.0	456.9	442.1	573.3	658.8	585.1	507.0	504.0	495.2
70°	6009.9	4350.4	527.6	425.9	420.0	549.7	641.1	542.3	477.5	458.3	449.5
72°	4788.1	3388.1	462.7	403.8	384.6	490.8	599.8	508.4	452.4	428.9	418.5
72.5°	4371.1	3140.5	453.9	393.5	377.3	477.5	579.2	498.1	446.5	425.9	409.7
75°	2397.8	1607.8	399.4	361.1	318.3	412.6	536.4	467.2	421.5	392.0	389.1
77.5°	891.6	623.4	344.9	319.8	275.6	356.6	487.8	443.6	383.2	346.3	339.0
80°	341.9	328.6	281.5	269.7	231.4	312.4	449.5	397.9	325.7	288.9	277.1
82.5°	207.8	191.6	213.7	210.7	176.8	284.4	423.0	372.9	288.9	234.3	227.0
85°	113.5	113.5	148.8	143.0	123.8	227.0	319.8	247.6	182.7	150.3	153.3
87.5°	50.1	58.9	79.6	75.2	67.8	128.2	156.2	131.2	91.4	61.9	66.3
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)