

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: P478310

Luminaire Tested: **IFLD-S-SA2D-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478310
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

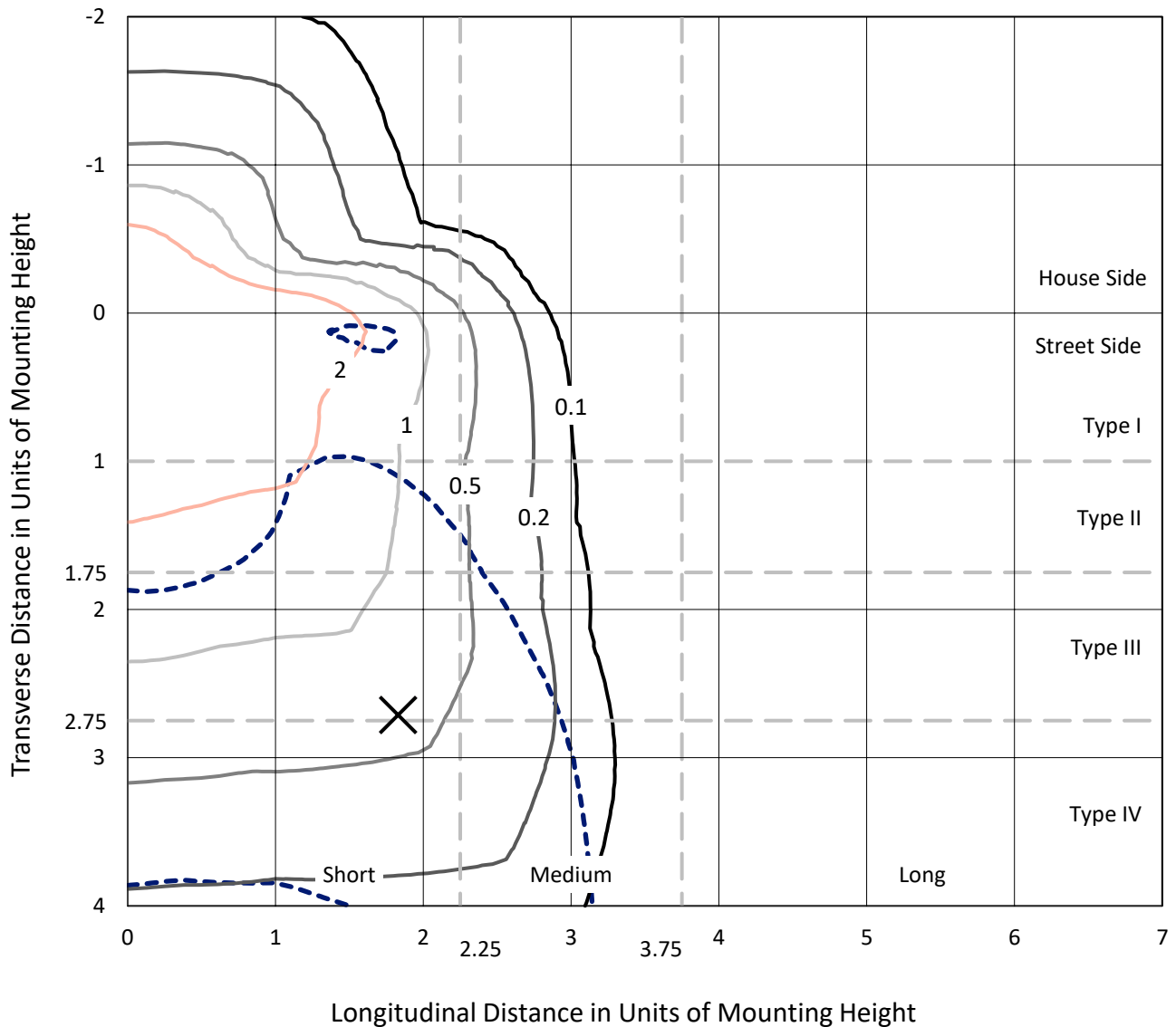
Lumens per Lamp: N/A
Luminaire Lumens: 12731.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
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

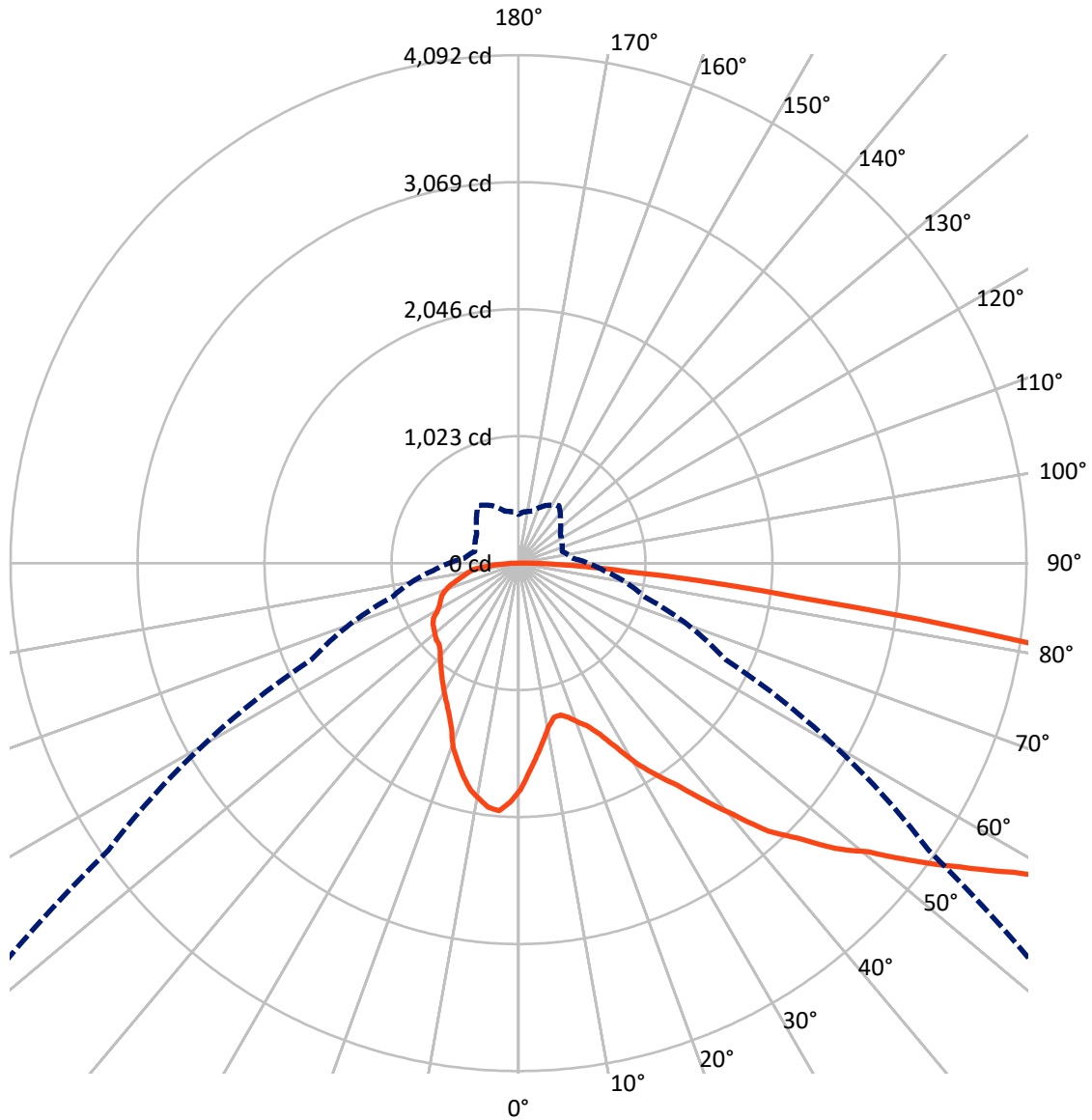
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2750.2	0.0	2750.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	9981.4	0.0	9981.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	12731.5	0.0	12731.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.3
10°-20°	471.5	3.7
20°-30°	776.0	6.1
30°-40°	1160.4	9.1
40°-50°	1720.3	13.5
50°-60°	2479.1	19.5
60°-70°	3163.7	24.8
70°-80°	2461.9	19.3
80°-90°	330.3	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°	12731.5	100.0
0°-180°	12731.5	100.0

Coefficient of Utilization



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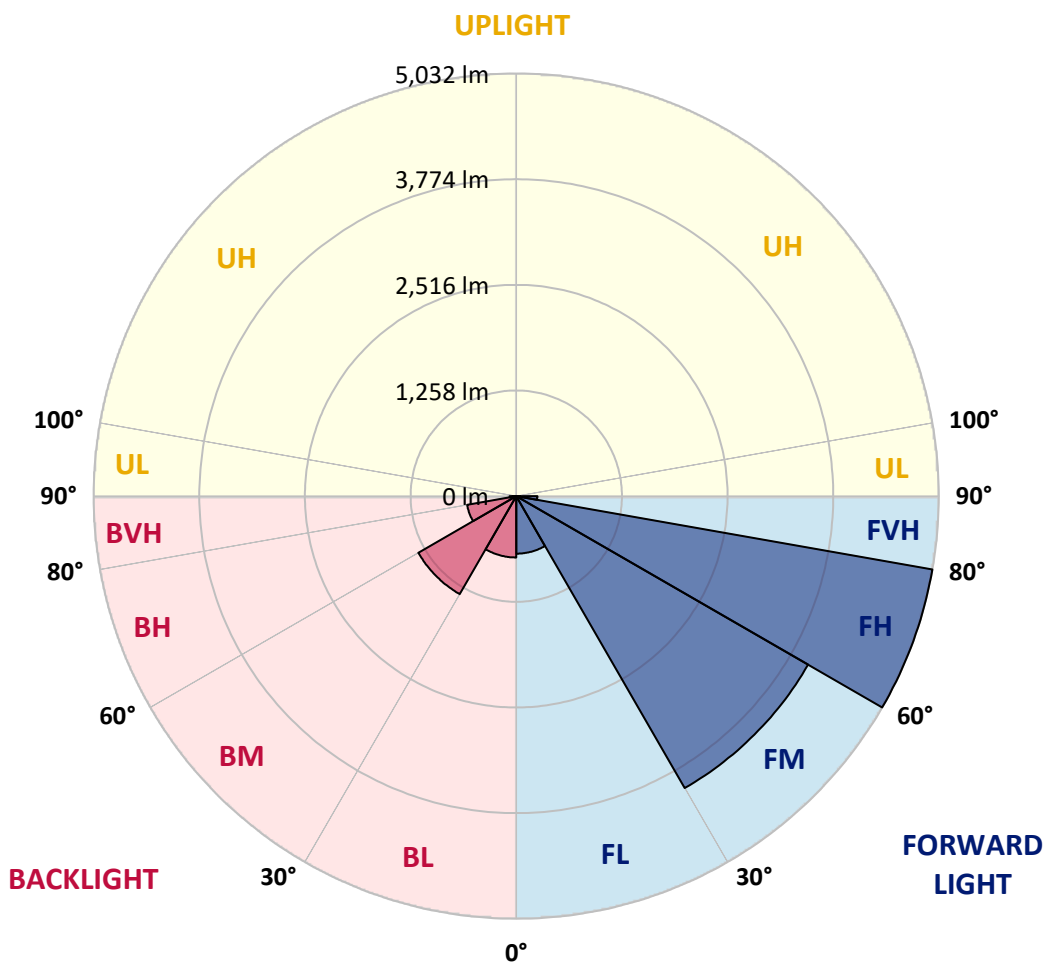
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.2	5.4			
FM (30°-60°)	4013.1	31.5			
FH (60°-80°)	5031.7	39.5			G3/7500
FVH (80°-90°)	251.4	2.0			G3/500
BL (0°-30°)	730.7	5.7	B2/1000		
BM (30°-60°)	1346.8	10.6	B2/2500		
BH (60°-80°)	593.8	4.7	B2/1000		G2/1000
BVH (80°-90°)	78.9	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°	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3
2.5°	1635.5	1640.9	1658.4	1662.4	1681.2	1670.5	1693.3	1733.7	1756.6	1790.3	1830.6
5°	1506.2	1483.4	1494.1	1535.9	1557.4	1562.8	1587.0	1655.7	1698.7	1748.5	1823.9
7.5°	1354.1	1350.1	1371.6	1398.6	1441.6	1445.7	1499.5	1560.1	1648.9	1759.3	1848.1
10°	1250.5	1268.0	1280.1	1308.4	1338.0	1338.0	1406.6	1511.6	1612.6	1718.9	1853.5
12.5°	1245.1	1234.3	1237.0	1251.8	1273.4	1300.3	1364.9	1459.1	1587.0	1710.8	1876.4
15°	1262.6	1266.6	1242.4	1261.3	1269.3	1278.8	1350.1	1456.4	1570.9	1739.1	1915.5
17.5°	1355.5	1332.6	1294.9	1277.4	1305.7	1305.7	1354.1	1437.6	1573.5	1753.9	1972.0
20°	1428.2	1428.2	1366.3	1347.4	1367.6	1363.6	1397.2	1459.1	1587.0	1783.5	2035.3
22.5°	1550.7	1568.2	1465.9	1426.8	1425.5	1436.3	1465.9	1518.4	1624.7	1825.3	2095.8
25°	1727.0	1731.0	1612.6	1572.2	1529.1	1546.6	1552.0	1604.5	1658.4	1873.7	2164.5
27.5°	1923.5	1920.8	1811.8	1710.8	1682.6	1686.6	1657.0	1692.0	1708.2	1888.5	2262.7
30°	2141.6	2117.4	2035.3	1892.6	1869.7	1844.1	1779.5	1778.2	1811.8	1972.0	2398.7
32.5°	2284.3	2253.3	2196.8	2094.5	2031.2	2033.9	1931.6	1930.3	1900.6	2063.5	2517.1
35°	2424.3	2377.2	2362.3	2257.4	2194.1	2200.8	2118.7	2107.9	2054.1	2202.2	2712.3
37.5°	2592.5	2550.8	2573.7	2494.3	2416.2	2383.9	2346.2	2332.7	2262.7	2397.3	2978.8
40°	2778.3	2764.8	2750.0	2711.0	2663.9	2666.6	2626.2	2612.7	2509.1	2632.9	3234.6
42.5°	3028.6	2977.5	2900.8	2926.3	2950.6	2976.1	2962.7	2927.7	2820.0	2872.5	3520.0
45°	3261.5	3194.2	3052.9	3061.0	3160.6	3180.8	3343.6	3339.6	3122.9	3176.7	3844.4
47.5°	3419.0	3388.0	3303.2	3293.8	3436.5	3435.2	3728.6	3728.6	3441.9	3479.6	4193.0
50°	3653.2	3572.5	3536.1	3583.2	3655.9	3705.7	4121.7	4147.2	3755.5	3795.9	4649.3
52.5°	3927.8	3826.9	3735.3	3856.5	3985.7	4018.0	4510.7	4499.9	3996.5	4163.4	5183.7
55°	4155.3	4104.2	4040.9	4110.9	4322.2	4362.6	4901.0	4801.4	4237.4	4467.6	5440.8
57.5°	4420.5	4451.4	4464.9	4447.4	4699.1	4762.4	5346.6	5061.2	4444.7	4672.2	5591.6
60°	4820.3	4839.1	4856.6	4898.3	5164.9	5253.7	5699.2	5387.0	4575.3	4790.6	5603.7
62.5°	5428.7	5356.0	5395.0	5539.1	5753.1	5854.0	6218.8	5615.8	4674.9	4862.0	5207.9
65°	6124.6	6026.3	5986.0	6171.7	6726.3	6645.5	6867.6	5786.7	4530.9	4595.5	4416.4
67.5°	6829.9	6840.7	6737.1	7109.9	7789.7	7789.7	7470.7	5868.8	4140.5	3724.6	3097.3
70°	7389.9	7423.5	7480.1	8202.9	9279.8	9442.6	8217.7	5532.3	3345.0	2479.5	1693.3
72.5°	7381.8	7280.9	7570.3	8901.5	10633.9	10498.0	8373.9	4374.7	2087.7	1214.2	776.7
73°	7216.3	7131.5	7447.8	8894.8	10689.1	10561.2	8259.5	4032.8	1841.4	1052.6	690.5
75°	5893.1	5739.6	6278.0	8056.2	9889.5	9987.8	7017.0	2630.2	1009.5	648.8	485.9
77.5°	2686.7	2754.0	3455.3	5404.5	7621.4	7737.2	4613.0	1137.4	553.2	455.0	358.1
80°	862.8	905.9	1344.7	2686.7	4777.2	4985.8	2132.2	516.9	394.4	348.6	267.9
82.5°	329.8	328.4	564.0	1117.2	2264.1	2397.3	779.4	315.0	293.4	257.1	189.8
85°	115.8	121.1	212.7	441.5	891.1	932.8	270.6	175.0	203.3	172.3	109.0
87.5°	40.4	41.7	75.4	160.2	306.9	324.4	75.4	70.0	101.0	99.6	55.2
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°	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3	1825.3
2.5°	1844.1	1856.2	1860.3	1908.7	1908.7	1908.7	1927.6	1927.6	1922.2	1908.7	1941.0
5°	1852.2	1873.7	1915.5	1957.2	1967.9	1977.4	2002.9	1981.4	1989.5	1976.0	1988.1
7.5°	1875.1	1904.7	1982.8	2008.3	1990.8	2011.0	1984.1	1969.3	1954.5	1959.9	1941.0
10°	1914.1	1951.8	1988.1	2035.3	2001.6	1981.4	1926.2	1912.8	1865.6	1849.5	1864.3
12.5°	1962.6	2008.3	2070.2	2052.7	1988.1	1930.3	1871.0	1814.5	1786.2	1745.8	1756.6
15°	2011.0	2063.5	2072.9	2043.3	1962.6	1889.9	1782.2	1702.8	1674.5	1638.2	1657.0
17.5°	2063.5	2113.3	2097.2	2020.4	1911.4	1801.0	1678.5	1600.5	1541.2	1518.4	1518.4
20°	2141.6	2165.8	2140.2	1982.8	1849.5	1704.1	1585.7	1496.8	1437.6	1428.2	1413.4
22.5°	2202.2	2241.2	2126.8	1927.6	1759.3	1577.6	1441.6	1408.0	1390.5	1375.7	1356.8
25°	2280.2	2278.9	2102.6	1876.4	1604.5	1426.8	1344.7	1342.0	1334.0	1328.6	1354.1
27.5°	2354.3	2323.3	2074.3	1749.9	1444.3	1312.4	1268.0	1297.6	1309.7	1301.6	1312.4
30°	2471.4	2420.2	2033.9	1615.3	1303.0	1196.7	1204.7	1245.1	1265.3	1277.4	1261.3
32.5°	2595.2	2517.1	1950.4	1475.3	1177.8	1124.0	1142.8	1184.5	1208.8	1222.2	1237.0
35°	2774.2	2592.5	1865.6	1292.2	1087.6	1079.5	1090.3	1113.2	1148.2	1157.6	1161.7
37.5°	2995.0	2706.9	1751.2	1145.5	1017.6	1027.0	1037.8	1045.9	1047.2	1064.7	1058.0
40°	3215.7	2803.9	1584.3	1005.5	944.9	996.1	990.7	975.9	963.8	947.6	943.6
42.5°	3409.6	2888.7	1398.6	887.1	880.3	963.8	946.3	908.6	880.3	868.2	848.0
45°	3627.6	3008.5	1211.5	813.0	830.5	924.7	919.4	861.5	825.1	782.1	776.7
47.5°	3910.3	3133.6	1032.4	736.3	783.4	909.9	912.6	838.6	786.1	728.2	720.1
50°	4272.4	3314.0	896.5	704.0	755.1	888.4	892.4	807.6	739.0	679.8	674.4
52.5°	4619.7	3498.4	783.4	654.2	736.3	862.8	872.3	779.4	700.0	625.9	630.0
55°	4794.7	3431.1	686.5	617.8	693.2	821.1	856.1	759.2	640.7	589.6	588.2
57.5°	4833.7	3265.6	609.8	580.2	656.9	776.7	829.2	698.6	613.8	570.7	565.3
60°	4705.8	2976.1	549.2	539.8	611.1	730.9	767.3	666.3	586.9	551.9	543.8
62.5°	4390.9	2676.0	507.5	520.9	572.1	681.1	728.2	643.4	561.3	537.1	519.6
65°	3600.7	2200.8	473.8	484.6	531.7	632.7	704.0	617.8	538.4	515.5	514.2
67.5°	2494.3	1517.0	446.9	467.1	499.4	597.7	679.8	589.6	508.8	500.7	490.0
70°	1277.4	809.0	411.9	428.0	464.4	553.2	636.7	560.0	477.9	476.5	463.0
72.5°	647.5	473.8	371.5	395.7	421.3	495.4	582.8	520.9	438.8	424.0	402.5
73°	560.0	438.8	364.8	386.3	410.5	479.2	566.7	511.5	433.4	411.9	391.7
75°	407.9	345.9	327.1	348.6	367.5	432.1	512.9	468.4	398.4	375.6	356.7
77.5°	305.6	266.5	271.9	296.1	312.3	372.9	456.3	424.0	360.7	329.8	321.7
80°	224.8	203.3	224.8	247.7	259.8	328.4	415.9	367.5	304.2	269.2	262.5
82.5°	160.2	148.1	173.6	188.4	193.8	271.9	374.2	293.4	230.2	184.4	169.6
85°	91.5	90.2	117.1	115.8	119.8	158.8	246.3	195.2	148.1	113.1	110.4
87.5°	40.4	44.4	59.2	47.1	49.8	75.4	105.0	72.7	60.6	33.7	25.6
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)