

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: P478427

Luminaire Tested: **IFLD-S-SA2D-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478427
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

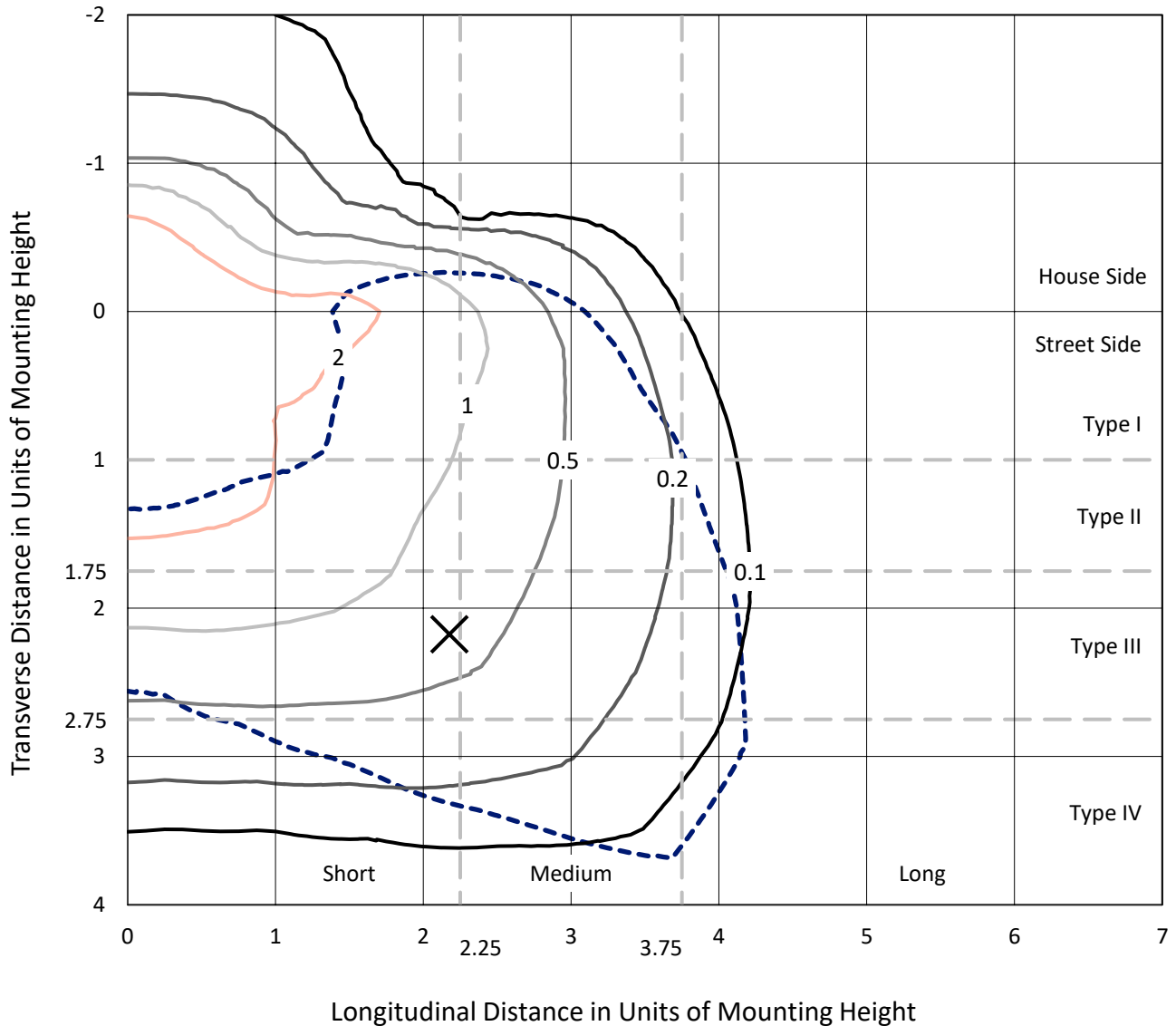
Lumens per Lamp: N/A
Luminaire Lumens: 13220.3 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

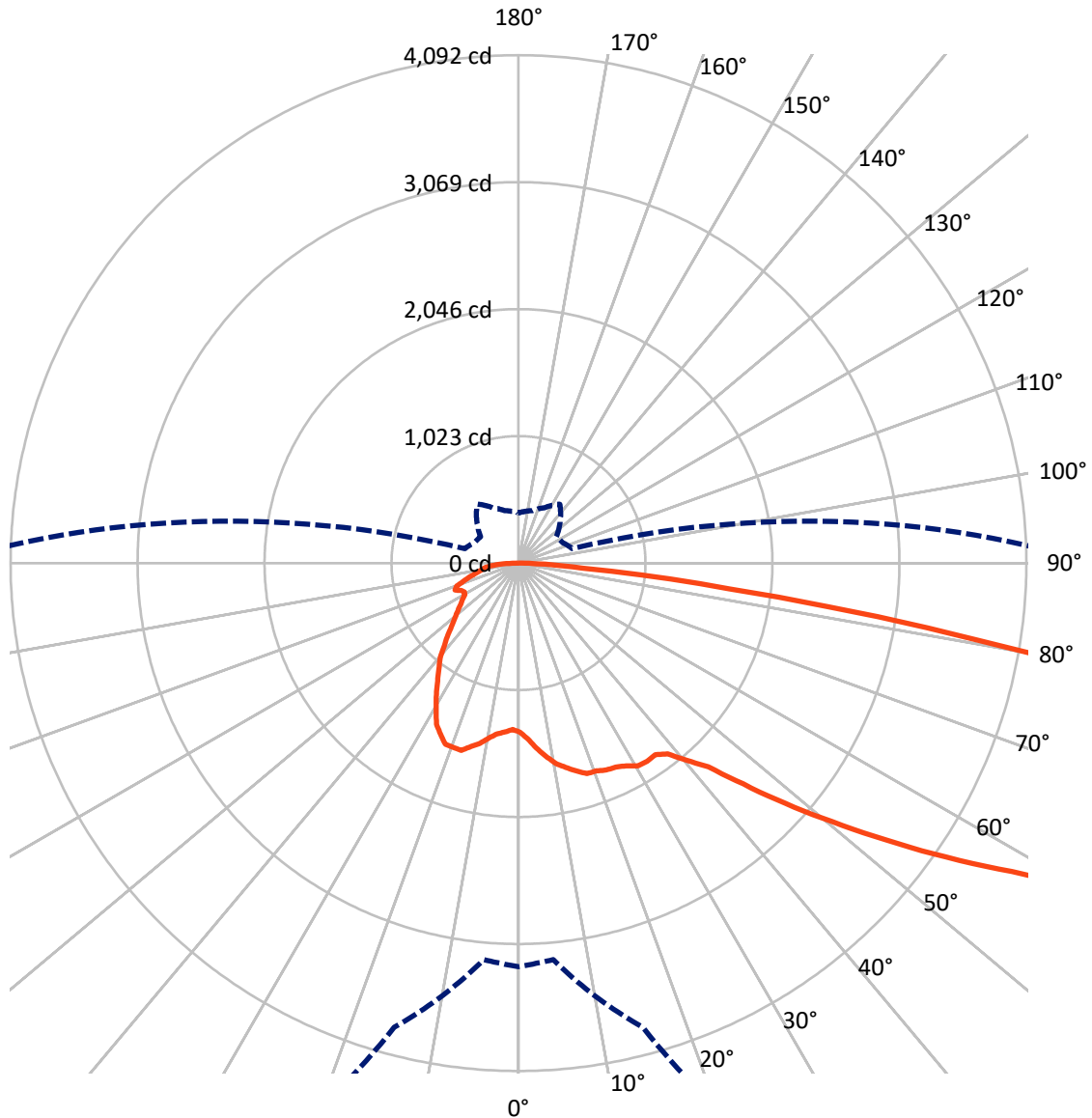
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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	2942.9	0.0	2942.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10277.4	0.0	10277.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	13220.3	0.0	13220.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.1
10°-20°	463.5	3.5
20°-30°	782.7	5.9
30°-40°	1083.2	8.2
40°-50°	1549.4	11.7
50°-60°	2499.0	18.9
60°-70°	3685.6	27.9
70°-80°	2676.4	20.2
80°-90°	341.2	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°	13220.3	100.0
0°-180°	13220.3	100.0

Coefficient of Utilization



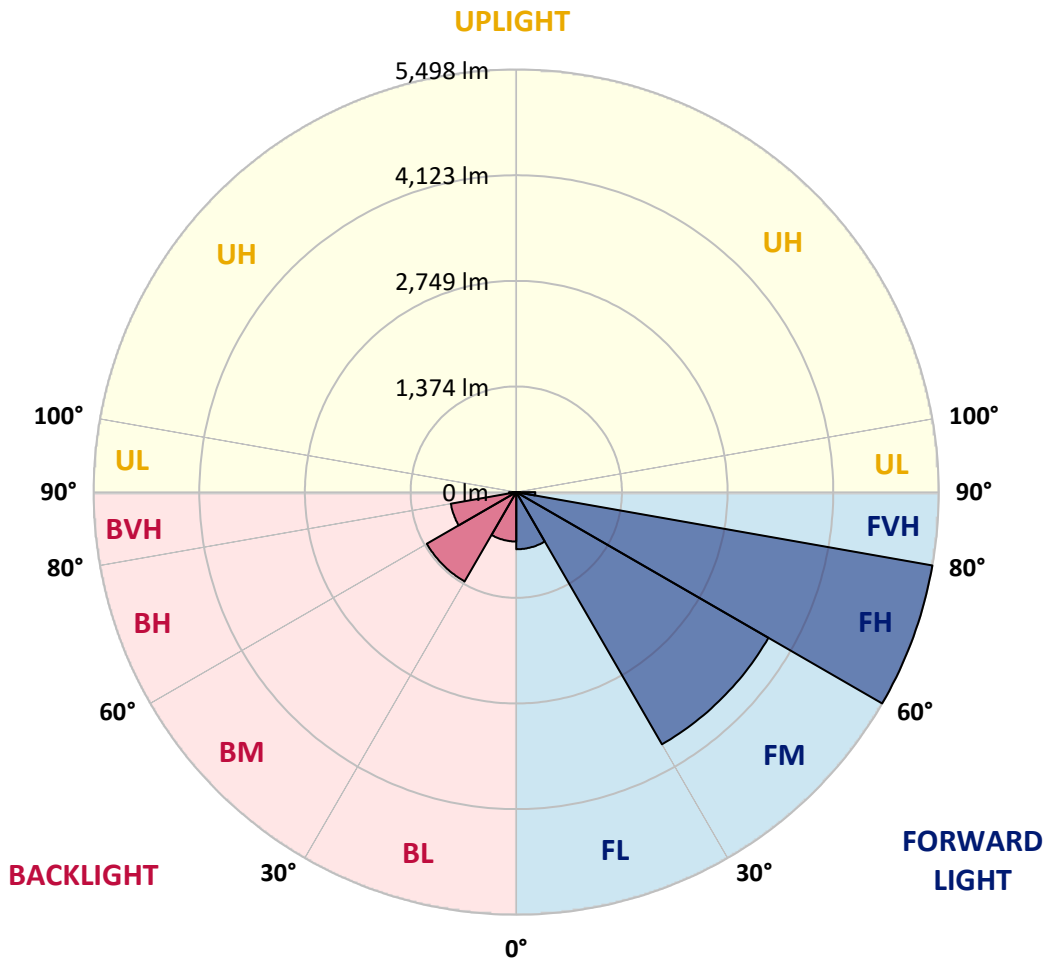
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.0	5.6			
FM (30°-60°)	3788.5	28.7			
FH (60°-80°)	5497.6	41.6			G3/7500
FVH (80°-90°)	248.3	1.9			G3/500
BL (0°-30°)	642.6	4.9	B2/1000		
BM (30°-60°)	1343.1	10.2	B2/2500		
BH (60°-80°)	864.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	92.8	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°	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5
2.5°	1434.2	1442.7	1434.2	1432.7	1418.5	1408.5	1417.1	1404.2	1390.0	1384.3	1371.4
5°	1565.3	1566.7	1551.1	1552.5	1522.5	1491.2	1496.9	1458.4	1417.1	1401.4	1375.7
7.5°	1699.3	1683.6	1660.8	1653.7	1606.7	1572.4	1568.2	1534.0	1469.8	1434.2	1398.5
10°	1786.3	1792.0	1754.9	1723.6	1683.6	1642.3	1640.9	1576.7	1539.7	1486.9	1441.3
12.5°	1863.3	1864.7	1833.3	1783.4	1733.5	1682.2	1689.3	1660.8	1598.1	1548.2	1502.6
15°	1923.1	1914.6	1880.4	1834.8	1782.0	1742.1	1737.8	1713.6	1660.8	1619.5	1543.9
17.5°	1940.3	1936.0	1901.8	1853.3	1802.0	1772.0	1783.4	1743.5	1722.1	1685.1	1612.4
20°	1907.5	1897.5	1891.8	1837.6	1800.5	1797.7	1787.7	1796.3	1760.6	1726.4	1673.7
22.5°	1847.6	1843.3	1840.5	1797.7	1780.6	1793.4	1810.5	1823.4	1817.6	1784.9	1725.0
25°	1786.3	1806.2	1787.7	1767.8	1792.0	1824.8	1820.5	1861.8	1861.8	1851.9	1802.0
27.5°	1829.1	1816.2	1802.0	1792.0	1800.5	1851.9	1849.0	1898.9	1917.4	1898.9	1841.9
30°	1936.0	1923.1	1881.8	1837.6	1826.2	1881.8	1896.1	1940.3	1948.8	1903.2	1854.7
32.5°	2137.0	2129.9	2064.3	1934.5	1864.7	1896.1	1903.2	1953.1	1946.0	1917.4	1897.5
35°	2434.9	2410.7	2319.5	2099.9	1946.0	1914.6	1896.1	1936.0	1963.1	1948.8	1930.3
37.5°	2761.4	2734.3	2621.7	2343.7	2092.8	1964.5	1950.2	1983.0	2014.4	2007.3	1968.8
40°	3073.6	3073.6	2972.4	2648.8	2310.9	2085.7	2088.5	2051.4	2080.0	2067.1	2074.3
42.5°	3381.5	3370.1	3328.8	3006.6	2544.7	2288.1	2242.5	2149.8	2201.1	2196.9	2206.8
45°	3693.7	3685.2	3673.8	3340.2	2879.7	2561.8	2537.6	2370.8	2417.8	2397.9	2440.6
47.5°	3943.2	3953.2	3953.2	3712.3	3237.6	2926.8	2891.1	2627.4	2717.2	2727.2	2737.2
50°	4155.6	4159.9	4155.6	4067.3	3636.7	3344.5	3271.8	3003.8	3093.6	3172.0	3263.2
52.5°	4449.3	4455.0	4435.1	4400.8	4178.5	3783.6	3702.3	3404.3	3588.3	3670.9	3834.9
55°	4811.4	4768.7	4731.6	4757.2	4698.8	4266.8	4182.7	3817.8	4094.3	4204.1	4532.0
57.5°	4878.4	4915.5	5009.6	5213.4	5297.6	4737.3	4688.8	4325.3	4666.0	4761.5	5309.0
60°	5115.1	5053.8	5284.7	5726.7	5820.8	5350.3	5300.4	4881.3	5234.8	5334.6	6026.0
62.5°	5270.5	5267.6	5609.8	6134.4	6348.2	5986.1	5884.9	5604.1	5849.3	5946.2	6807.3
65°	5224.8	5266.2	5873.5	6373.9	6788.7	6708.9	6650.5	6225.6	6549.2	6540.7	7316.2
67.5°	4808.6	4925.5	5706.7	6546.4	7444.5	7589.9	7571.4	7099.5	7118.1	6937.0	7542.9
70°	4231.2	4191.3	5001.0	6366.8	7772.4	8634.9	8630.6	7749.6	7629.8	7024.0	6892.8
72°	3250.4	3206.2	3871.9	5467.2	7599.9	9052.6	9180.9	8200.1	7624.1	6663.3	5693.9
72.5°	2951.0	2912.5	3575.4	5146.4	7408.9	9160.9	9101.1	8217.2	7564.3	6493.6	5318.9
75°	1358.6	1314.4	1786.3	3150.6	5779.4	8117.4	8321.3	7689.7	6606.3	5169.2	3186.2
77.5°	404.9	392.0	574.5	1271.6	3358.7	5980.4	6058.8	5802.2	4611.8	2831.3	1181.8
80°	225.2	226.7	296.5	476.2	1476.9	3457.1	3739.4	3584.0	2262.4	935.2	393.5
82.5°	125.5	132.6	185.3	282.3	678.6	1586.7	1707.9	1646.6	818.3	439.1	215.3
85°	65.6	68.4	96.9	151.1	384.9	501.8	516.1	553.1	424.8	299.4	115.5
87.5°	25.7	25.7	35.6	62.7	142.6	155.4	139.7	169.6	243.8	193.9	57.0
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°	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5	1361.5
2.5°	1382.8	1371.4	1370.0	1351.5	1357.2	1341.5	1342.9	1340.1	1341.5	1338.6	1331.5
5°	1375.7	1367.2	1342.9	1358.6	1344.3	1364.3	1380.0	1374.3	1378.6	1377.1	1378.6
7.5°	1385.7	1374.3	1371.4	1362.9	1375.7	1384.3	1397.1	1432.7	1429.9	1434.2	1442.7
10°	1415.6	1402.8	1394.2	1407.1	1399.9	1427.0	1441.3	1459.8	1492.6	1494.0	1476.9
12.5°	1474.1	1465.5	1448.4	1451.3	1475.5	1484.1	1492.6	1504.0	1525.4	1521.1	1536.8
15°	1541.1	1522.5	1512.6	1509.7	1515.4	1525.4	1524.0	1535.4	1546.8	1556.8	1552.5
17.5°	1589.6	1565.3	1568.2	1582.4	1581.0	1578.1	1559.6	1553.9	1559.6	1565.3	1562.5
20°	1639.4	1642.3	1620.9	1608.1	1602.4	1573.9	1559.6	1542.5	1525.4	1534.0	1546.8
22.5°	1702.2	1689.3	1658.0	1619.5	1591.0	1573.9	1529.7	1499.7	1499.7	1508.3	1504.0
25°	1773.5	1746.4	1692.2	1622.3	1586.7	1514.0	1482.6	1478.4	1466.9	1479.8	1485.5
27.5°	1829.1	1804.8	1730.7	1612.4	1514.0	1455.5	1437.0	1431.3	1449.8	1451.3	1474.1
30°	1851.9	1844.7	1736.4	1586.7	1439.9	1345.8	1334.4	1360.0	1380.0	1409.9	1411.4
32.5°	1881.8	1884.7	1744.9	1526.8	1342.9	1248.8	1231.7	1263.1	1320.1	1344.3	1362.9
35°	1931.7	1946.0	1737.8	1452.7	1240.3	1150.5	1147.6	1156.2	1211.8	1254.5	1278.8
37.5°	2018.7	2015.8	1736.4	1364.3	1159.0	1064.9	1042.1	1045.0	1082.0	1117.7	1113.4
40°	2135.6	2124.2	1732.1	1248.8	1053.5	992.2	953.7	939.5	936.6	926.6	929.5
42.5°	2295.2	2272.4	1730.7	1131.9	958.0	892.4	865.3	828.3	801.2	749.9	752.7
45°	2517.6	2477.7	1693.6	1022.2	863.9	809.7	768.4	741.3	682.9	618.7	618.7
47.5°	2861.2	2731.5	1695.0	901.0	772.7	728.5	700.0	652.9	590.2	538.9	533.2
50°	3367.3	3070.8	1646.6	805.5	698.5	668.6	638.7	584.5	524.6	489.0	493.3
52.5°	4020.2	3576.8	1645.1	719.9	640.1	618.7	585.9	537.5	493.3	470.5	461.9
55°	4798.6	4246.9	1696.5	650.1	580.2	568.8	554.6	514.6	471.9	451.9	450.5
57.5°	5595.5	4901.2	1779.2	600.2	528.9	537.5	527.5	496.1	461.9	439.1	436.2
60°	6304.0	5420.2	1612.4	540.3	483.3	501.8	516.1	489.0	470.5	469.0	459.0
62.5°	6838.6	5642.6	1226.0	494.7	459.0	493.3	531.8	548.9	540.3	551.7	553.1
65°	7033.9	5508.5	844.0	470.5	440.5	513.2	598.8	593.1	543.2	521.8	533.2
67.5°	6760.2	4965.4	625.8	441.9	427.7	554.6	637.2	566.0	490.4	487.6	479.0
70°	5813.6	4208.4	510.4	412.0	406.3	531.8	620.1	524.6	461.9	443.4	434.8
72°	4631.8	3277.5	447.6	390.6	372.1	474.7	580.2	491.8	437.7	414.9	404.9
72.5°	4228.3	3038.0	439.1	380.6	365.0	461.9	560.3	481.9	432.0	412.0	396.3
75°	2319.5	1555.3	386.3	349.3	307.9	399.2	518.9	451.9	407.7	379.2	376.4
77.5°	862.5	603.0	333.6	309.4	266.6	345.0	471.9	429.1	370.7	335.0	327.9
80°	330.7	317.9	272.3	260.9	223.8	302.2	434.8	384.9	315.1	279.4	268.0
82.5°	201.0	185.3	206.7	203.9	171.1	275.1	409.1	360.7	279.4	226.7	219.5
85°	109.8	109.8	144.0	138.3	119.8	219.5	309.4	239.5	176.8	145.4	148.3
87.5°	48.5	57.0	77.0	72.7	65.6	124.0	151.1	126.9	88.4	59.9	64.2
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)