

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: P478507

Luminaire Tested: **IFLD-S-SA3A-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

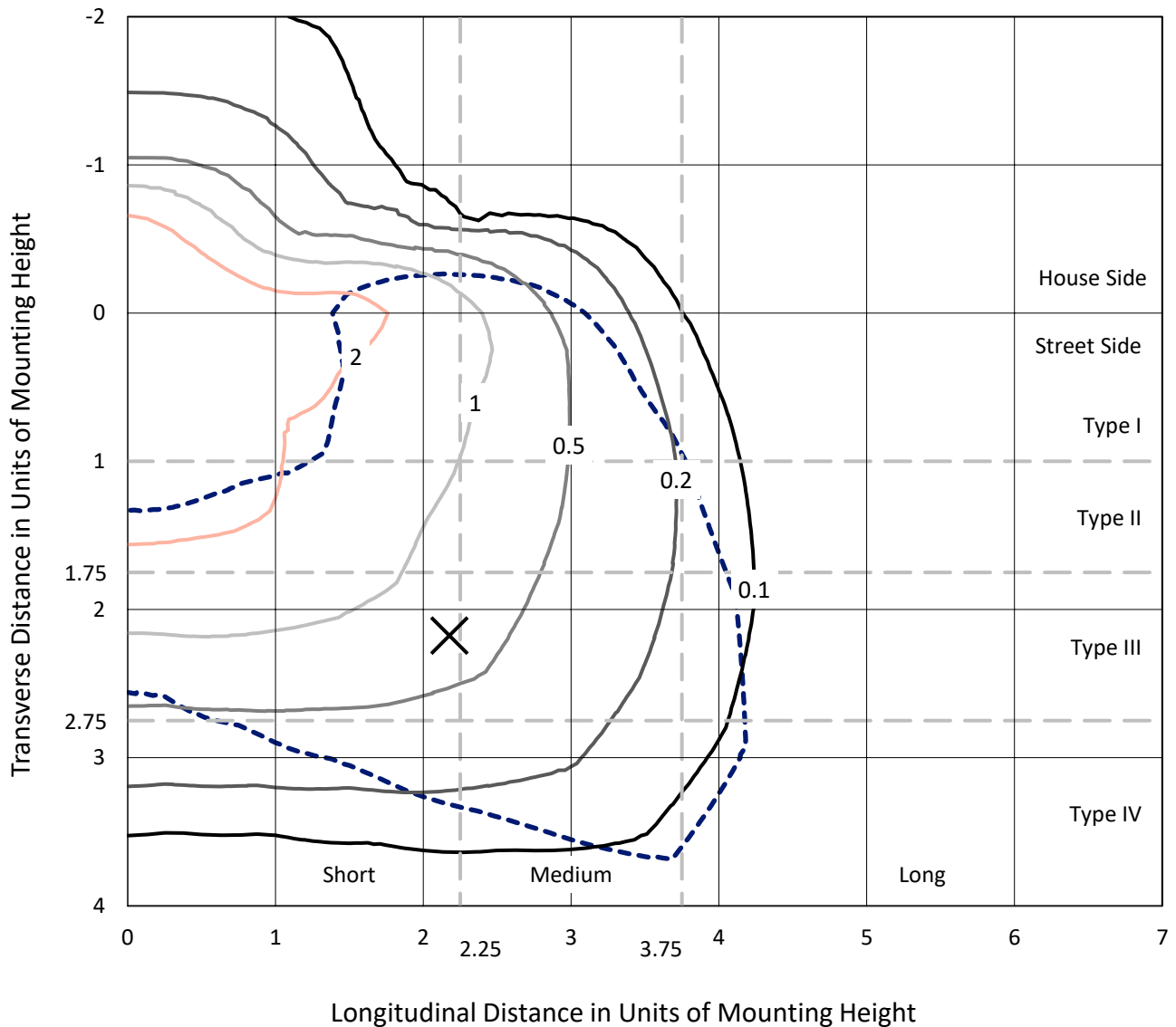
Lumens per Lamp: N/A
Luminaire Lumens: 13716.3 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

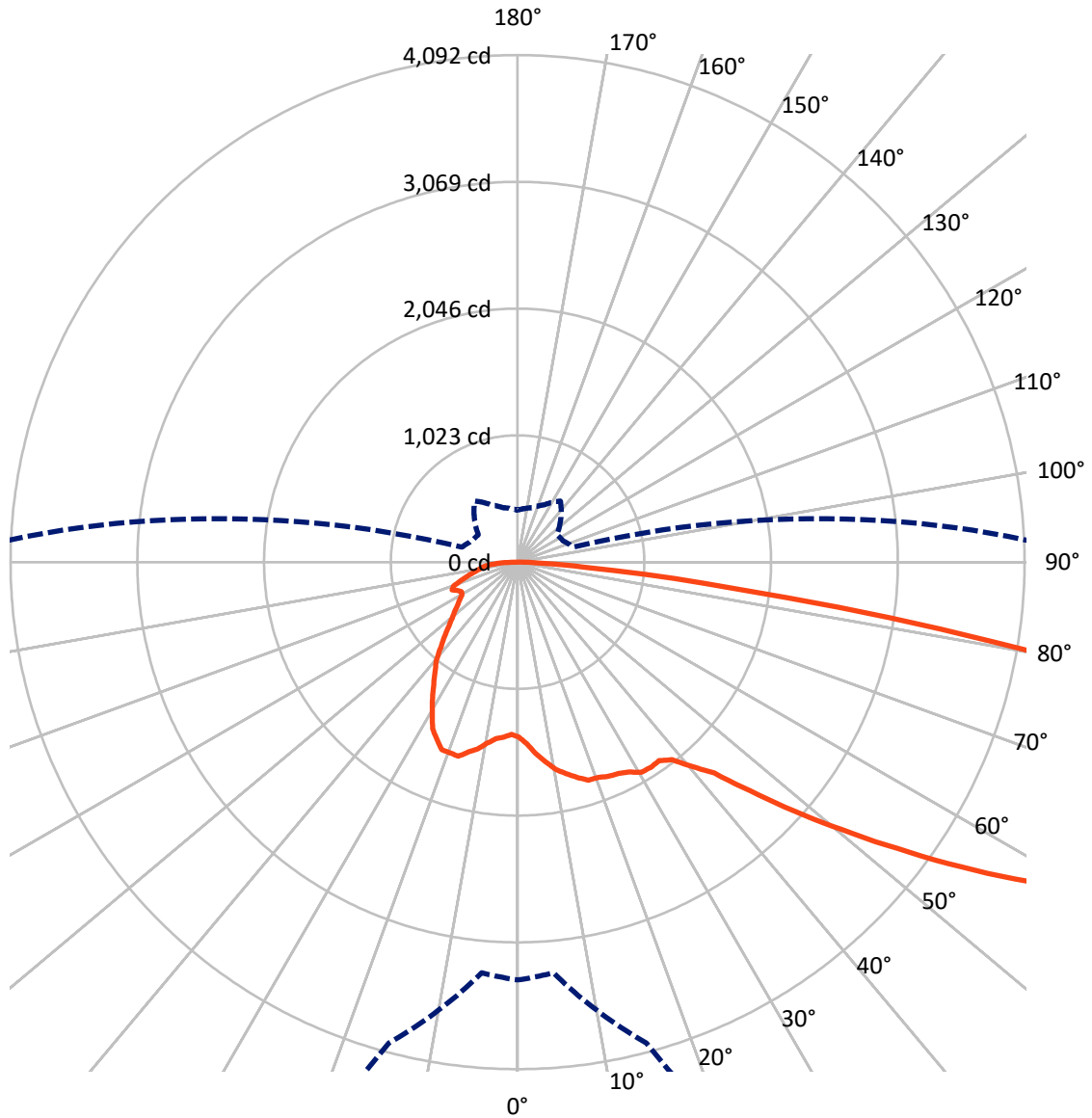
× Max cd
 - - - 1/2 Max cd



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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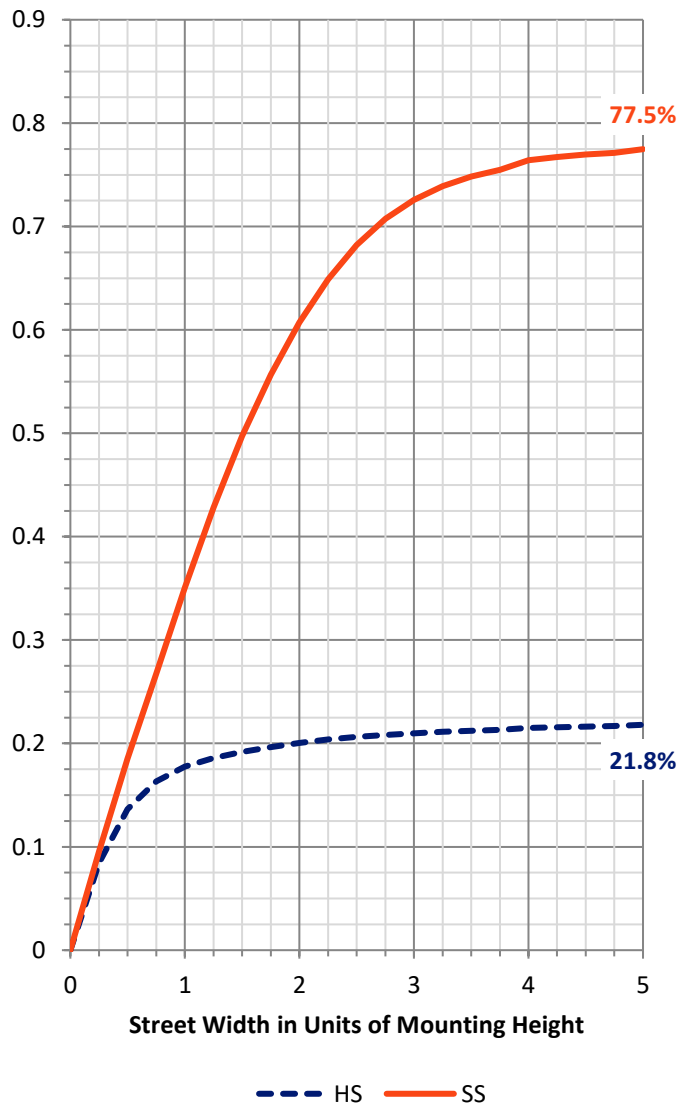
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3053.3	0.0	3053.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10663.0	0.0	10663.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	13716.3	0.0	13716.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.1
10°-20°	480.9	3.5
20°-30°	812.1	5.9
30°-40°	1123.8	8.2
40°-50°	1607.5	11.7
50°-60°	2592.7	18.9
60°-70°	3823.9	27.9
70°-80°	2776.8	20.2
80°-90°	354.0	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°	13716.3	100.0
0°-180°	13716.3	100.0

Coefficient of Utilization



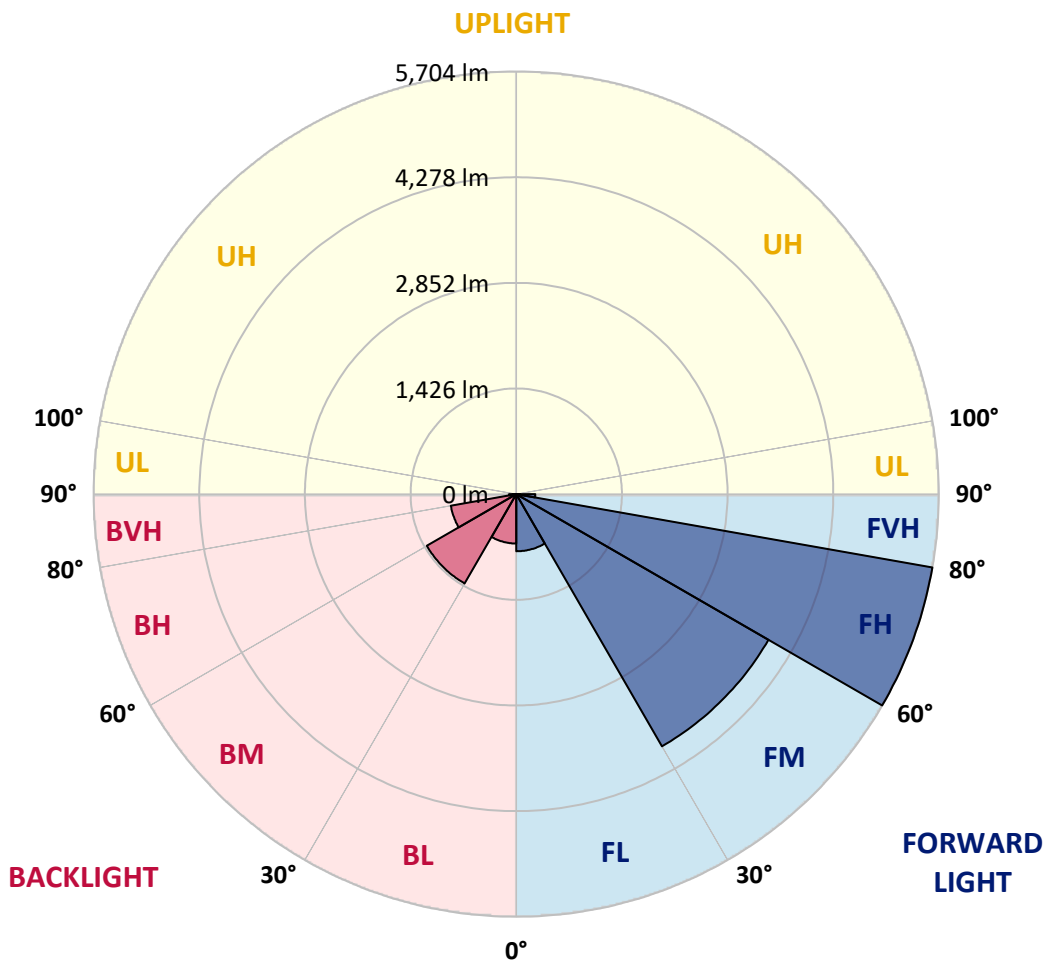
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.9	5.6			
FM (30°-60°)	3930.6	28.7			
FH (60°-80°)	5703.9	41.6			G3/7500
FVH (80°-90°)	257.6	1.9			G3/500
BL (0°-30°)	666.7	4.9	B2/1000		
BM (30°-60°)	1393.4	10.2	B2/2500		
BH (60°-80°)	896.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	96.3	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°	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5
2.5°	1488.0	1496.8	1488.0	1486.5	1471.7	1461.3	1470.2	1456.9	1442.1	1436.2	1422.9
5°	1624.0	1625.5	1609.3	1610.7	1579.7	1547.1	1553.0	1513.1	1470.2	1453.9	1427.3
7.5°	1763.1	1746.8	1723.1	1715.7	1666.9	1631.4	1627.0	1591.5	1524.9	1488.0	1451.0
10°	1853.3	1859.2	1820.8	1788.2	1746.8	1703.9	1702.4	1635.9	1597.4	1542.7	1495.4
12.5°	1933.2	1934.7	1902.1	1850.3	1798.6	1745.3	1752.7	1723.1	1658.1	1606.3	1559.0
15°	1995.3	1986.4	1950.9	1903.6	1848.9	1807.4	1803.0	1777.9	1723.1	1680.2	1601.9
17.5°	2013.0	2008.6	1973.1	1922.8	1869.6	1838.5	1850.3	1808.9	1786.7	1748.3	1672.9
20°	1979.0	1968.7	1962.8	1906.5	1868.1	1865.1	1854.8	1863.7	1826.7	1791.2	1736.5
22.5°	1916.9	1912.5	1909.5	1865.1	1847.4	1860.7	1878.4	1891.8	1885.8	1851.8	1789.7
25°	1853.3	1874.0	1854.8	1834.1	1859.2	1893.2	1888.8	1931.7	1931.7	1921.3	1869.6
27.5°	1897.7	1884.4	1869.6	1859.2	1868.1	1921.3	1918.4	1970.1	1989.4	1970.1	1911.0
30°	2008.6	1995.3	1952.4	1906.5	1894.7	1952.4	1967.2	2013.0	2021.9	1974.6	1924.3
32.5°	2217.2	2209.8	2141.7	2007.1	1934.7	1967.2	1974.6	2026.4	2019.0	1989.4	1968.7
35°	2526.3	2501.1	2406.5	2178.7	2019.0	1986.4	1967.2	2008.6	2036.7	2021.9	2002.7
37.5°	2865.0	2836.9	2720.0	2431.6	2171.3	2038.2	2023.4	2057.4	2090.0	2082.6	2042.6
40°	3188.9	3188.9	3083.9	2748.2	2397.6	2163.9	2166.9	2128.4	2158.0	2144.7	2152.1
42.5°	3508.4	3496.6	3453.7	3119.4	2640.2	2373.9	2326.6	2230.5	2283.7	2279.3	2289.6
45°	3832.3	3823.5	3811.6	3465.5	2987.8	2657.9	2632.8	2459.7	2508.5	2487.8	2532.2
47.5°	4091.2	4101.5	4101.5	3851.6	3359.0	3036.6	2999.6	2726.0	2819.1	2829.5	2839.9
50°	4311.6	4316.0	4311.6	4219.8	3773.2	3469.9	3394.5	3116.4	3209.6	3291.0	3385.6
52.5°	4616.2	4622.2	4601.5	4566.0	4335.2	3925.5	3841.2	3532.1	3722.9	3808.7	3978.8
55°	4991.9	4947.6	4909.1	4935.7	4875.1	4426.9	4339.7	3961.0	4248.0	4361.8	4702.0
57.5°	5061.5	5099.9	5197.5	5409.0	5496.3	4915.0	4864.7	4487.6	4841.1	4940.2	5508.1
60°	5307.0	5243.4	5483.0	5941.5	6039.1	5551.0	5499.3	5064.4	5431.2	5534.8	6252.1
62.5°	5468.2	5465.2	5820.2	6364.5	6586.4	6210.7	6105.7	5814.3	6068.7	6169.3	7062.7
65°	5420.9	5463.8	6093.9	6613.0	7043.4	6960.6	6900.0	6459.2	6794.9	6786.1	7590.7
67.5°	4989.0	5110.3	5920.8	6792.0	7723.8	7874.7	7855.5	7365.9	7385.1	7197.3	7825.9
70°	4389.9	4348.5	5188.7	6605.6	8064.0	8958.9	8954.4	8040.3	7916.1	7287.5	7151.4
72°	3372.3	3326.5	4017.2	5672.3	7885.0	9392.2	9525.3	8507.7	7910.2	6913.3	5907.5
72.5°	3061.7	3021.8	3709.6	5339.5	7686.8	9504.6	9442.5	8525.5	7848.1	6737.3	5518.5
75°	1409.6	1363.7	1853.3	3268.8	5996.2	8421.9	8633.5	7978.2	6854.1	5363.2	3305.8
77.5°	420.1	406.8	596.1	1319.3	3484.7	6204.8	6286.1	6019.9	4784.9	2937.5	1226.2
80°	233.7	235.2	307.7	494.0	1532.3	3586.8	3879.7	3718.4	2347.3	970.3	408.2
82.5°	130.2	137.6	192.3	292.9	704.0	1646.2	1772.0	1708.4	849.0	455.6	223.3
85°	68.0	71.0	100.6	156.8	399.4	520.6	535.4	573.9	440.8	310.6	119.8
87.5°	26.6	26.6	37.0	65.1	147.9	161.2	145.0	176.0	252.9	201.2	59.2
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°	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5	1412.5
2.5°	1434.7	1422.9	1421.4	1402.2	1408.1	1391.8	1393.3	1390.3	1391.8	1388.9	1381.5
5°	1427.3	1418.4	1393.3	1409.6	1394.8	1415.5	1431.8	1425.8	1430.3	1428.8	1430.3
7.5°	1437.7	1425.8	1422.9	1414.0	1427.3	1436.2	1449.5	1486.5	1483.5	1488.0	1496.8
10°	1468.7	1455.4	1446.6	1459.9	1452.5	1480.6	1495.4	1514.6	1548.6	1550.1	1532.3
12.5°	1529.4	1520.5	1502.8	1505.7	1530.9	1539.7	1548.6	1560.4	1582.6	1578.2	1594.5
15°	1598.9	1579.7	1569.3	1566.4	1572.3	1582.6	1581.1	1593.0	1604.8	1615.2	1610.7
17.5°	1649.2	1624.0	1627.0	1641.8	1640.3	1637.4	1618.1	1612.2	1618.1	1624.0	1621.1
20°	1701.0	1703.9	1681.7	1668.4	1662.5	1632.9	1618.1	1600.4	1582.6	1591.5	1604.8
22.5°	1766.0	1752.7	1720.2	1680.2	1650.7	1632.9	1587.1	1556.0	1556.0	1564.9	1560.4
25°	1840.0	1811.9	1755.7	1683.2	1646.2	1570.8	1538.3	1533.8	1522.0	1535.3	1541.2
27.5°	1897.7	1872.5	1795.6	1672.9	1570.8	1510.2	1490.9	1485.0	1504.2	1505.7	1529.4
30°	1921.3	1913.9	1801.5	1646.2	1493.9	1396.3	1384.4	1411.1	1431.8	1462.8	1464.3
32.5°	1952.4	1955.4	1810.4	1584.1	1393.3	1295.7	1277.9	1310.5	1369.6	1394.8	1414.0
35°	2004.2	2019.0	1803.0	1507.2	1286.8	1193.6	1190.7	1199.5	1257.2	1301.6	1326.7
37.5°	2094.4	2091.4	1801.5	1415.5	1202.5	1104.9	1081.2	1084.2	1122.6	1159.6	1155.2
40°	2215.7	2203.8	1797.1	1295.7	1093.0	1029.4	989.5	974.7	971.8	961.4	964.4
42.5°	2381.3	2357.7	1795.6	1174.4	993.9	925.9	897.8	859.4	831.2	778.0	781.0
45°	2612.1	2570.7	1757.2	1060.5	896.3	840.1	797.2	769.1	708.5	641.9	641.9
47.5°	2968.5	2833.9	1758.6	934.8	801.7	755.8	726.2	677.4	612.3	559.1	553.2
50°	3493.6	3186.0	1708.4	835.7	724.8	693.7	662.6	606.4	544.3	507.3	511.8
52.5°	4171.0	3711.0	1706.9	746.9	664.1	641.9	607.9	557.6	511.8	488.1	479.2
55°	4978.6	4406.2	1760.1	674.5	602.0	590.2	575.4	534.0	489.6	468.9	467.4
57.5°	5805.4	5085.1	1845.9	622.7	548.7	557.6	547.3	514.7	479.2	455.6	452.6
60°	6540.5	5623.5	1672.9	560.6	501.4	520.6	535.4	507.3	488.1	486.6	476.3
62.5°	7095.2	5854.2	1272.0	513.2	476.3	511.8	551.7	569.5	560.6	572.4	573.9
65°	7297.8	5715.2	875.6	488.1	457.0	532.5	621.2	615.3	563.5	541.3	553.2
67.5°	7013.9	5151.7	649.3	458.5	443.7	575.4	661.2	587.2	508.8	505.8	497.0
70°	6031.7	4366.3	529.5	427.5	421.5	551.7	643.4	544.3	479.2	460.0	451.1
72°	4805.6	3400.4	464.4	405.3	386.0	492.5	602.0	510.3	454.1	430.4	420.1
72.5°	4387.0	3151.9	455.6	394.9	378.6	479.2	581.3	499.9	448.2	427.5	411.2
75°	2406.5	1613.7	400.8	362.4	319.5	414.1	538.4	468.9	423.0	393.4	390.5
77.5°	894.9	625.7	346.1	321.0	276.6	357.9	489.6	445.2	384.6	347.6	340.2
80°	343.1	329.8	282.5	270.7	232.2	313.6	451.1	399.4	326.9	289.9	278.1
82.5°	208.6	192.3	214.5	211.5	177.5	285.5	424.5	374.2	289.9	235.2	227.8
85°	113.9	113.9	149.4	143.5	124.2	227.8	321.0	248.5	183.4	150.9	153.8
87.5°	50.3	59.2	79.9	75.4	68.0	128.7	156.8	131.6	91.7	62.1	66.6
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)