

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: P481038

Luminaire Tested: **IFLD-S-SA2B-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481038
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

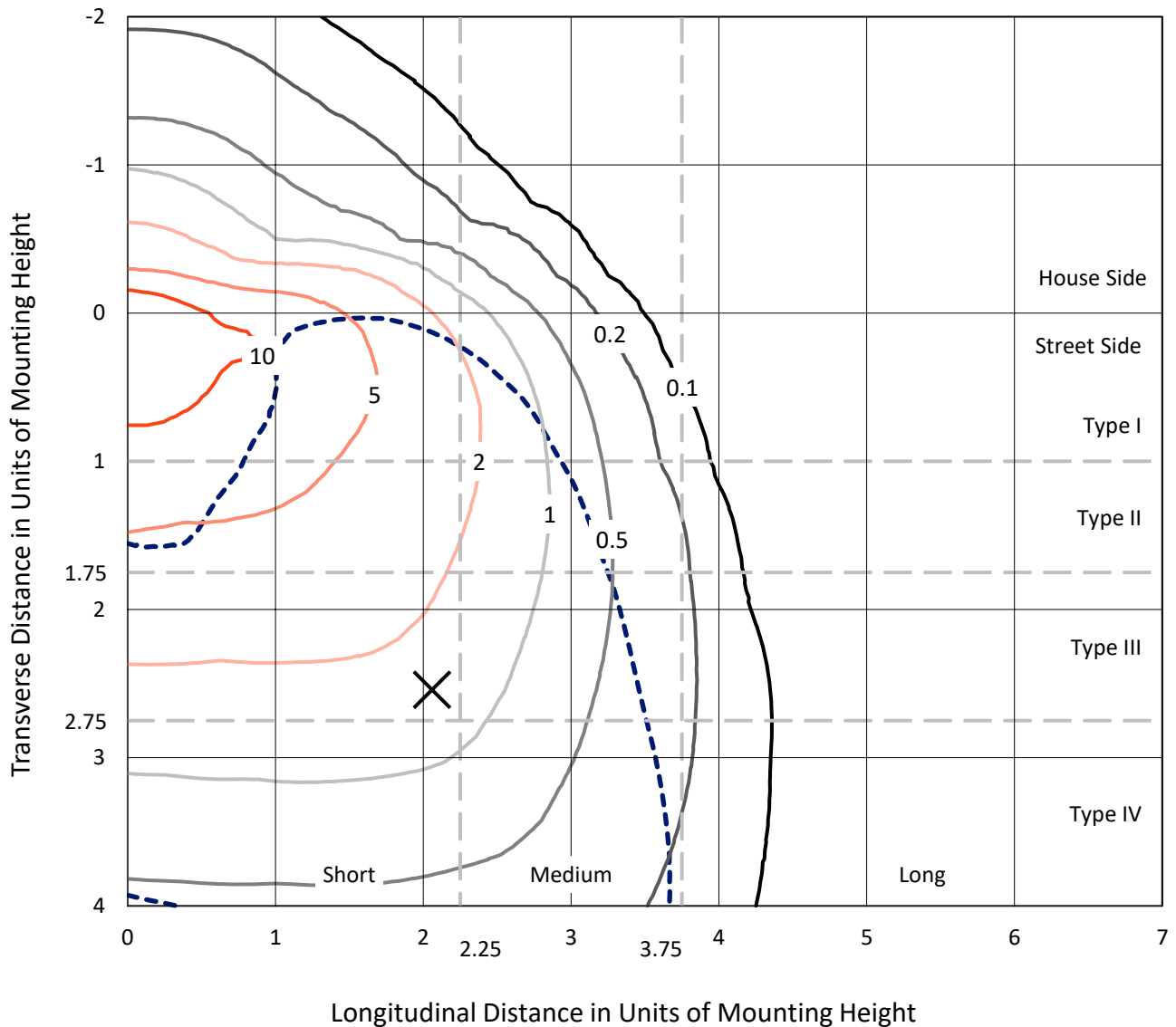
Lumens per Lamp: N/A
Luminaire Lumens: 8775.7 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 82.4
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

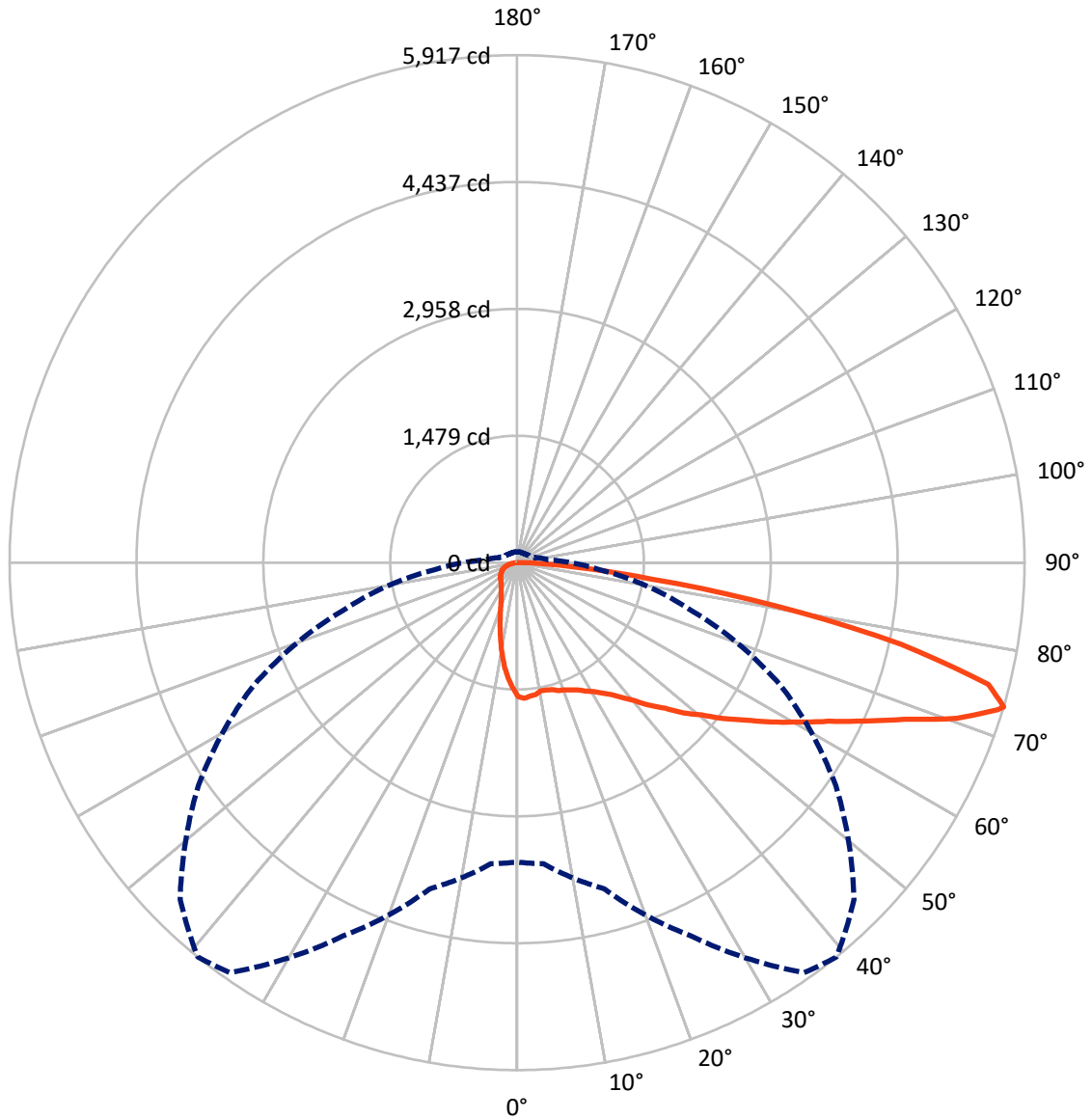
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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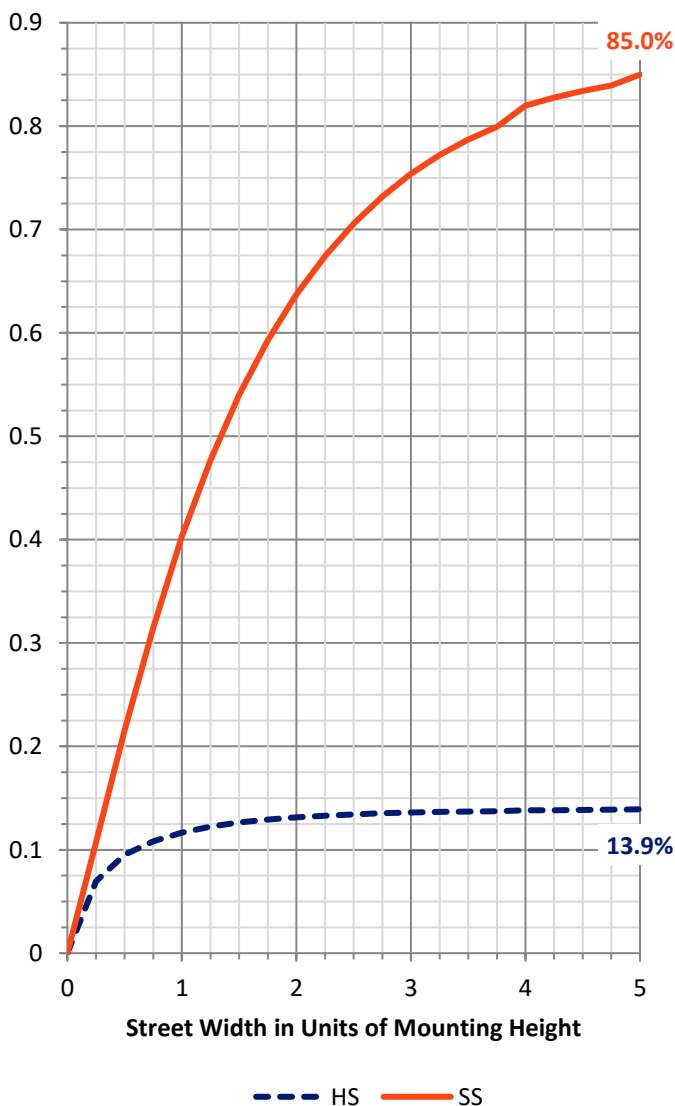
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.6	0.0	1233.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7542.1	0.0	7542.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	8775.7	0.0	8775.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.5
10°-20°	344.7	3.9
20°-30°	526.8	6.0
30°-40°	768.1	8.8
40°-50°	1160.6	13.2
50°-60°	1680.7	19.2
60°-70°	2135.3	24.3
70°-80°	1731.0	19.7
80°-90°	292.9	3.3
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°	8775.7	100.0
0°-180°	8775.7	100.0

Coefficient of Utilization



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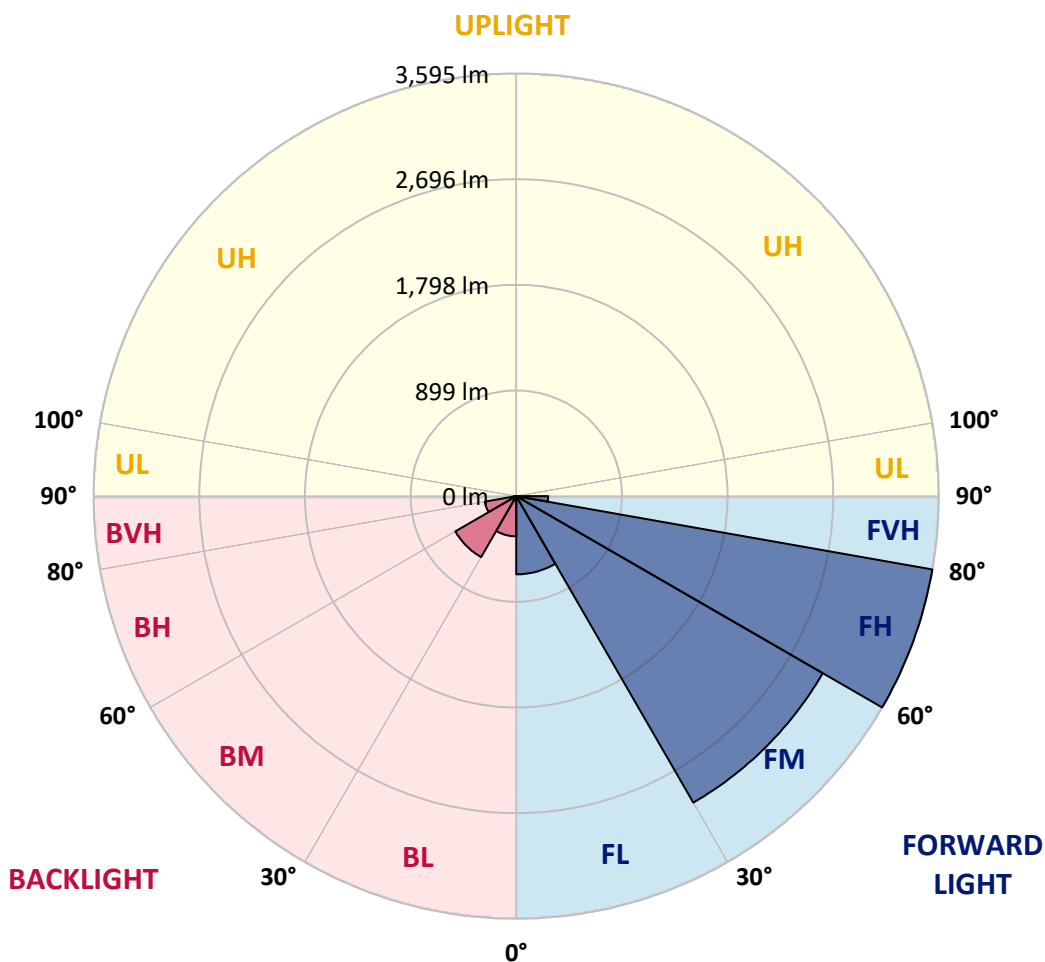
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.0	7.6			
FM (30°-60°)	3010.6	34.3			
FH (60°-80°)	3595.1	41.0			G2/5000
FVH (80°-90°)	271.4	3.1			G3/500
BL (0°-30°)	342.1	3.9	B1/500		
BM (30°-60°)	598.7	6.8	B1/1000		
BH (60°-80°)	271.3	3.1	B1/500		G1/500
BVH (80°-90°)	21.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1
2.5°	1599.4	1582.7	1585.7	1579.8	1585.7	1583.7	1580.8	1566.1	1580.8	1566.1	1562.1
5°	1577.8	1577.8	1587.7	1572.9	1574.9	1565.1	1574.9	1564.1	1554.3	1529.7	1522.9
7.5°	1571.0	1570.0	1571.0	1550.3	1560.2	1554.3	1544.5	1532.7	1513.0	1497.3	1474.7
10°	1523.8	1533.7	1522.9	1528.7	1536.6	1518.9	1517.9	1515.0	1506.2	1485.5	1471.8
12.5°	1498.3	1515.0	1520.9	1516.0	1522.9	1524.8	1518.9	1515.0	1504.2	1490.5	1451.2
15°	1509.1	1489.5	1506.2	1538.6	1531.7	1536.6	1537.6	1533.7	1528.7	1503.2	1477.7
17.5°	1512.1	1500.3	1535.6	1542.5	1551.3	1569.0	1557.2	1556.2	1537.6	1519.9	1482.6
20°	1518.9	1514.0	1542.5	1578.8	1579.8	1582.7	1588.6	1573.9	1564.1	1533.7	1476.7
22.5°	1544.5	1561.1	1587.7	1603.4	1612.2	1614.2	1614.2	1584.7	1573.9	1549.4	1504.2
25°	1621.0	1603.4	1640.7	1659.3	1646.6	1643.6	1636.7	1610.2	1598.5	1576.9	1517.0
27.5°	1677.0	1676.0	1697.6	1723.2	1688.8	1695.7	1671.1	1663.3	1636.7	1625.0	1539.5
30°	1753.6	1775.2	1774.2	1782.1	1736.9	1744.8	1713.3	1698.6	1683.9	1690.8	1606.3
32.5°	1851.8	1843.9	1856.7	1850.8	1805.6	1812.5	1775.2	1752.6	1757.5	1778.1	1697.6
35°	1914.6	1906.8	1911.7	1911.7	1897.9	1890.1	1874.4	1844.9	1868.5	1906.8	1799.7
37.5°	1982.4	1992.2	2020.7	2014.8	1997.1	1997.1	1995.1	1974.5	2004.9	2099.2	1962.7
40°	2042.3	2068.8	2086.4	2098.2	2118.8	2118.8	2135.5	2123.7	2178.7	2329.9	2162.0
42.5°	2105.1	2106.1	2202.3	2211.1	2257.3	2276.9	2289.7	2299.5	2402.6	2571.5	2375.1
45°	2185.6	2190.5	2275.0	2342.7	2414.4	2421.3	2469.4	2501.8	2628.4	2835.6	2606.8
47.5°	2291.6	2285.8	2376.1	2484.1	2573.4	2620.6	2678.5	2713.8	2870.0	3122.3	2860.1
50°	2431.1	2413.4	2465.4	2635.3	2740.4	2792.4	2895.5	2954.4	3137.0	3396.2	3033.9
52.5°	2600.9	2571.5	2612.7	2798.3	2916.1	3021.2	3119.3	3185.1	3375.6	3608.3	3162.6
55°	2780.6	2719.7	2731.5	2971.1	3140.9	3240.1	3374.6	3443.4	3637.8	3798.8	3291.2
57.5°	2958.3	2920.0	2896.5	3137.0	3409.0	3504.2	3627.9	3717.3	3882.2	3967.7	3400.2
60°	3107.6	3097.7	3059.5	3394.3	3692.8	3774.2	3903.8	3958.8	4083.5	4123.8	3402.1
62.5°	3230.3	3196.9	3257.8	3601.4	3981.4	4073.7	4216.1	4221.0	4309.4	4221.0	3302.0
65°	3326.5	3328.5	3425.7	3851.8	4315.2	4451.7	4566.6	4553.8	4496.9	4163.1	3065.3
67.5°	3413.9	3451.2	3593.6	4126.7	4744.3	4872.9	5000.6	4831.7	4547.9	3892.1	2602.9
70°	3482.6	3519.9	3820.4	4461.5	5250.0	5438.5	5467.0	4941.7	4313.3	3297.1	1963.7
72.5°	3474.8	3542.5	3949.0	4728.6	5698.7	5861.7	5631.9	4632.4	3593.6	2298.5	1145.8
73°	3491.5	3524.9	3938.2	4803.2	5835.2	5916.6	5555.3	4535.2	3389.4	2061.9	969.1
75°	3169.4	3282.3	3742.8	4681.5	5688.9	5674.1	5115.5	3779.2	2409.5	1083.0	469.3
77.5°	2344.7	2416.3	2949.5	3849.8	4669.7	4575.4	3858.7	2415.4	1143.9	401.6	253.3
80°	1145.8	1201.8	1563.1	2222.9	3053.6	3061.4	2394.7	1256.8	489.9	226.8	172.8
82.5°	572.4	605.8	751.1	976.9	1502.2	1573.9	1214.6	714.8	303.4	128.6	98.2
85°	374.1	397.7	462.5	478.2	637.2	672.6	565.5	557.7	197.4	69.7	79.5
87.5°	248.4	252.3	283.8	241.5	255.3	245.5	273.0	351.5	57.9	29.5	21.6
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°	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1	1562.1
2.5°	1557.2	1543.5	1528.7	1508.1	1493.4	1470.8	1450.2	1441.4	1439.4	1440.4	1430.6
5°	1517.0	1497.3	1467.9	1425.7	1401.1	1363.8	1332.4	1315.7	1298.0	1301.0	1293.1
7.5°	1461.0	1439.4	1394.2	1345.1	1284.3	1231.2	1201.8	1160.6	1137.0	1119.3	1129.1
10°	1443.3	1406.0	1338.3	1270.5	1176.3	1106.5	1038.8	991.7	959.3	927.9	941.6
12.5°	1434.5	1397.2	1302.9	1202.8	1081.0	975.0	879.7	821.8	775.7	748.2	759.0
15°	1426.6	1380.5	1269.5	1128.1	991.7	852.2	745.2	668.6	624.5	597.9	600.9
17.5°	1437.4	1371.6	1220.4	1055.5	893.5	744.2	625.4	545.9	500.7	484.1	480.1
20°	1426.6	1361.8	1172.3	982.8	795.3	641.2	527.3	461.5	430.1	416.3	413.4
22.5°	1430.6	1338.3	1122.3	902.3	704.0	554.7	461.5	411.4	386.9	380.0	381.9
25°	1449.2	1324.5	1072.2	814.0	613.7	490.9	419.3	381.0	363.3	356.4	358.4
27.5°	1463.0	1336.3	1027.0	730.5	537.1	434.0	383.9	358.4	346.6	341.7	340.7
30°	1497.3	1343.2	982.8	655.9	474.2	396.7	359.4	338.7	330.9	327.9	327.0
32.5°	1548.4	1355.9	931.8	587.1	428.1	361.3	339.7	322.0	320.1	317.1	318.1
35°	1631.8	1400.1	874.8	528.2	383.9	337.8	319.1	307.3	307.3	307.3	310.3
37.5°	1751.6	1462.0	823.8	472.3	355.4	317.1	301.4	297.5	295.5	298.5	300.4
40°	1905.8	1536.6	782.5	428.1	330.9	303.4	289.6	287.7	286.7	285.7	287.7
42.5°	2074.7	1631.8	747.2	393.7	313.2	288.7	278.8	276.9	273.0	274.9	277.9
45°	2242.6	1749.7	715.8	366.2	301.4	280.8	267.1	266.1	264.1	263.1	268.0
47.5°	2429.1	1865.5	706.0	349.5	292.6	269.0	259.2	258.2	252.3	251.4	255.3
50°	2574.4	1950.9	716.8	341.7	279.8	260.2	253.3	248.4	243.5	238.6	238.6
52.5°	2674.6	2009.9	724.6	335.8	273.0	248.4	239.6	237.6	232.7	227.8	225.8
55°	2764.9	2045.2	726.6	336.8	266.1	234.7	228.8	227.8	224.8	217.0	215.0
57.5°	2795.3	2030.5	687.3	327.9	262.2	225.8	218.0	219.9	216.0	209.1	208.2
60°	2792.4	1928.4	597.9	316.2	253.3	216.0	206.2	212.1	212.1	204.2	203.2
62.5°	2622.5	1692.7	489.0	293.6	243.5	206.2	195.4	204.2	207.2	202.3	201.3
65°	2270.0	1378.5	408.5	271.0	228.8	195.4	184.6	194.4	199.3	197.4	196.4
67.5°	1878.3	1054.5	339.7	241.5	210.1	180.7	171.8	178.7	181.6	182.6	183.6
70°	1327.5	702.0	283.8	209.1	184.6	165.0	155.1	156.1	155.1	158.1	158.1
72.5°	721.7	404.5	230.7	177.7	159.1	143.4	136.5	131.6	131.6	130.6	130.6
73°	617.6	363.3	219.9	172.8	152.2	139.4	131.6	127.6	127.6	126.7	125.7
75°	346.6	266.1	188.5	148.3	131.6	121.7	115.9	110.0	109.0	109.0	109.0
77.5°	227.8	207.2	150.2	118.8	106.0	97.2	95.2	89.3	89.3	89.3	88.4
80°	170.8	163.0	115.9	90.3	81.5	74.6	72.7	68.7	67.7	63.8	64.8
82.5°	113.9	128.6	84.4	63.8	55.0	51.1	51.1	50.1	47.1	42.2	42.2
85°	90.3	105.1	60.9	39.3	32.4	27.5	28.5	27.5	26.5	21.6	20.6
87.5°	16.7	42.2	17.7	10.8	7.9	4.9	4.9	2.9	2.0	0.0	0.0
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)