

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: P476749

Luminaire Tested: **IFLD-S-SA2C-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476749
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

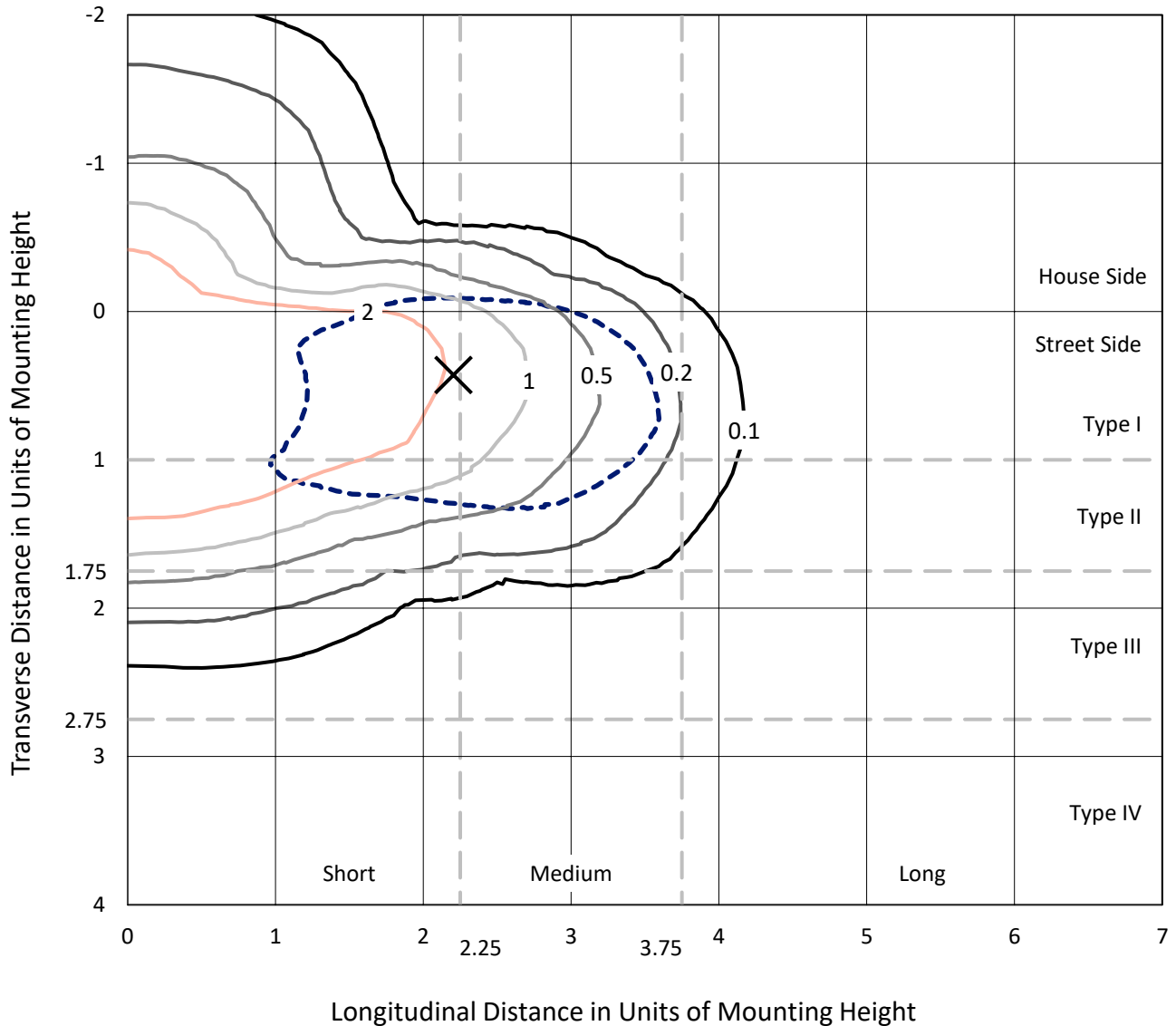
Lumens per Lamp: N/A
Luminaire Lumens: 11280.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

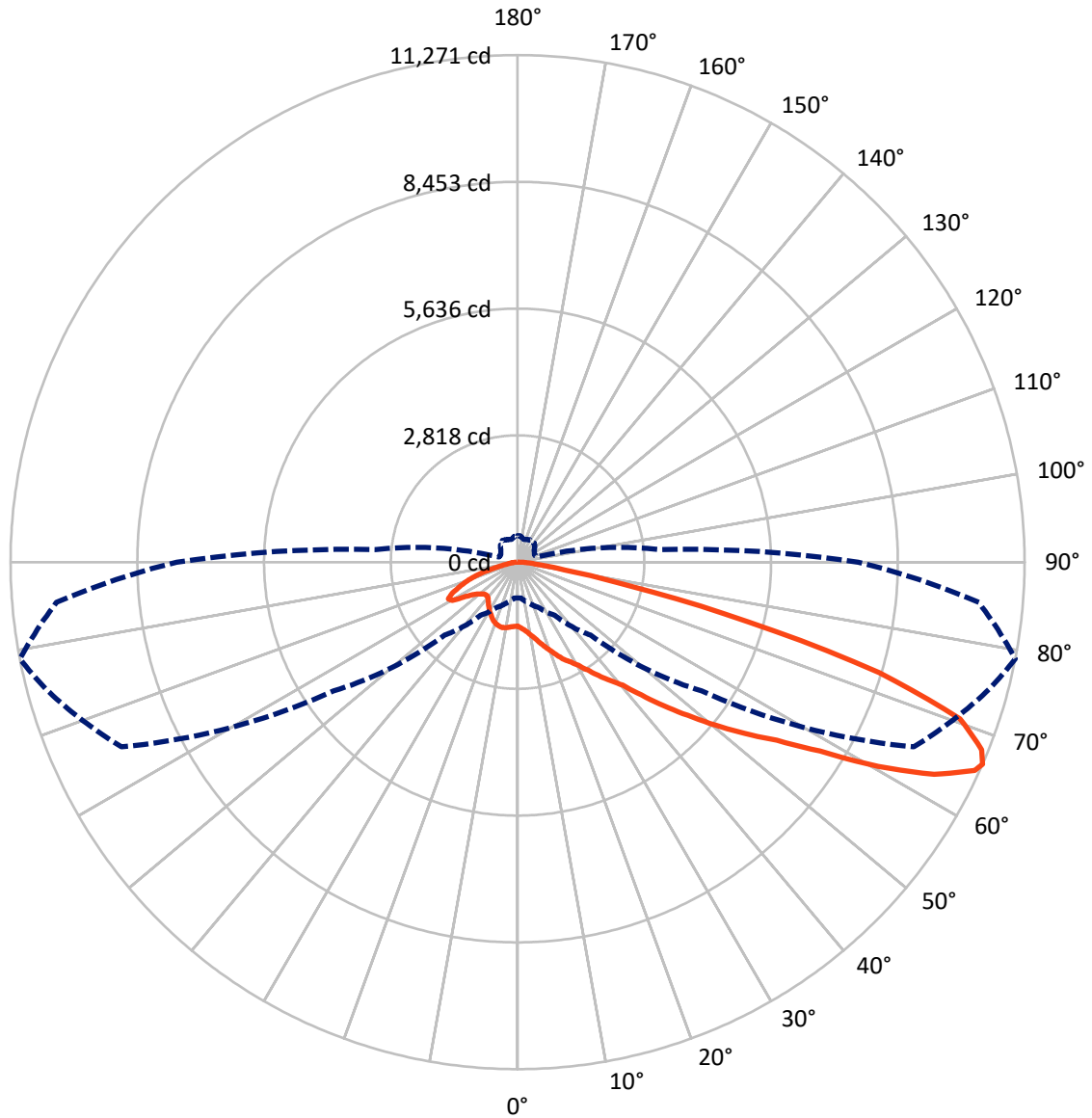
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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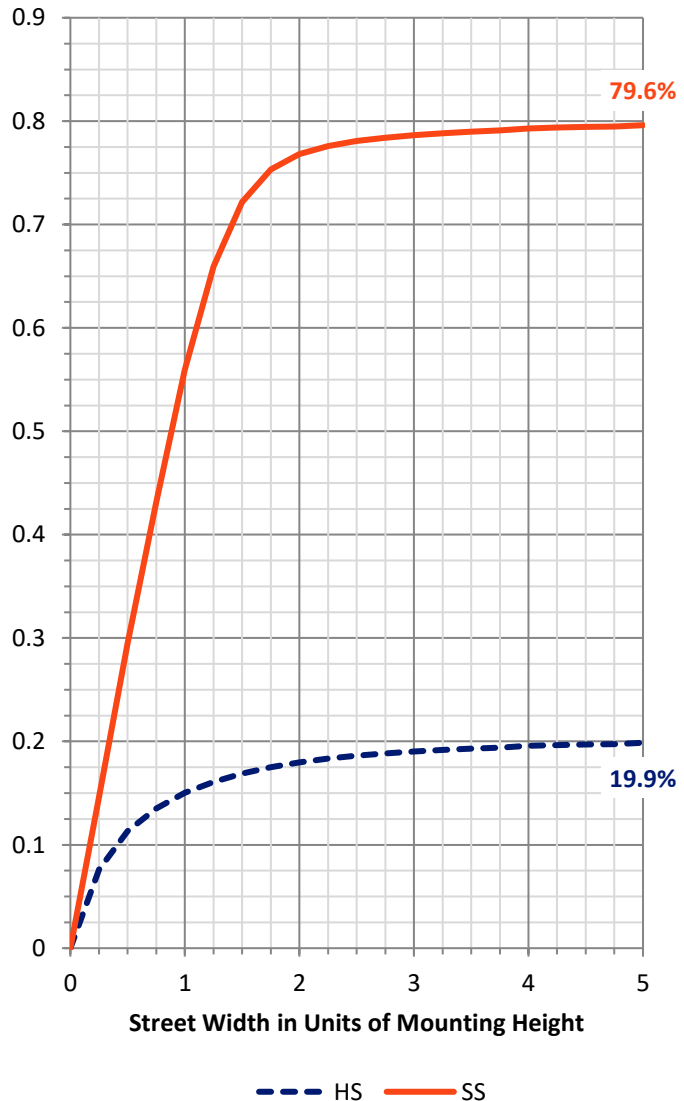
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.9	0.0	2277.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	9002.4	0.0	9002.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	11280.3	0.0	11280.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	1.2
10°-20°	432.5	3.8
20°-30°	742.4	6.6
30°-40°	1146.9	10.2
40°-50°	1837.0	16.3
50°-60°	2742.7	24.3
60°-70°	2818.2	25.0
70°-80°	1249.2	11.1
80°-90°	171.4	1.5
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°	11280.3	100.0
0°-180°	11280.3	100.0

Coefficient of Utilization



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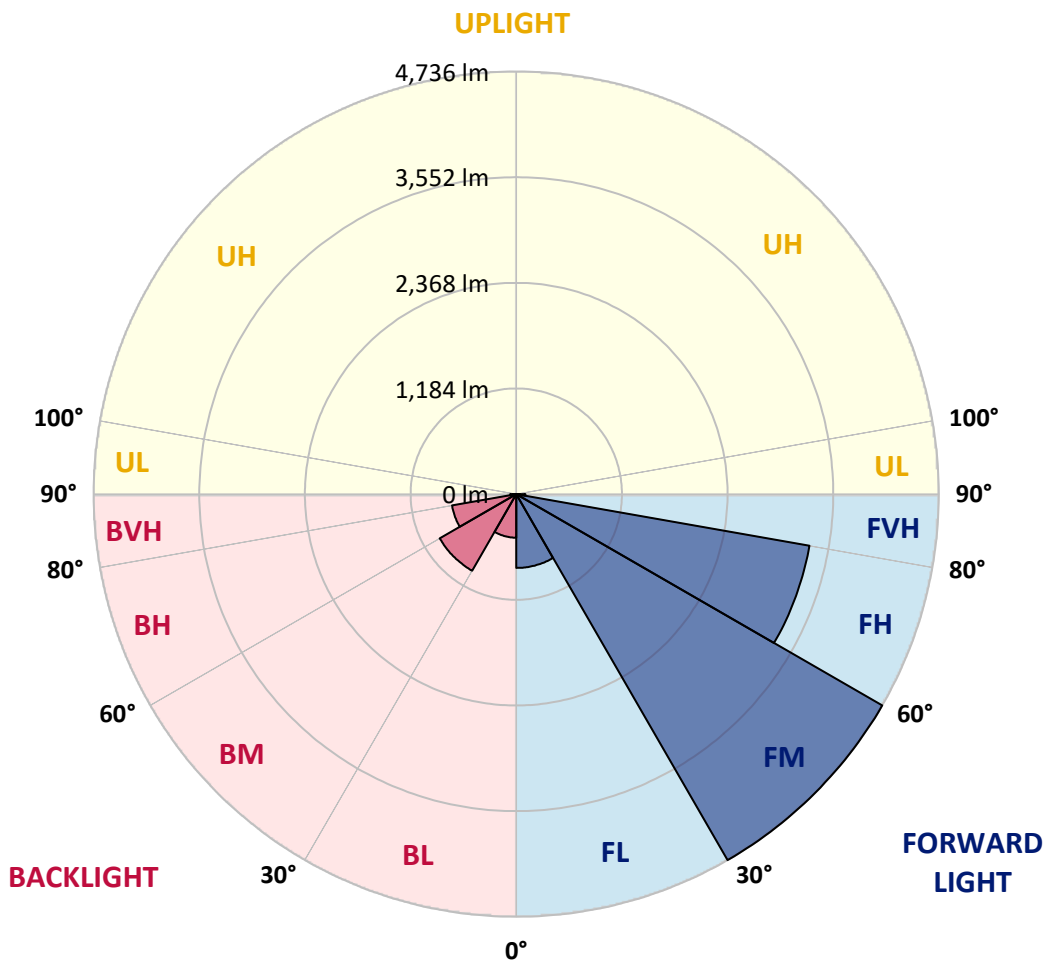
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.9	7.3			
FM (30°-60°)	4736.2	42.0			
FH (60°-80°)	3336.5	29.6			G2/5000
FVH (80°-90°)	102.8	0.9			G2/225
BL (0°-30°)	488.0	4.3	B1/500		
BM (30°-60°)	990.3	8.8	B1/1000		
BH (60°-80°)	730.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	68.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4
2.5°	1515.0	1516.2	1516.2	1511.2	1512.5	1516.2	1502.6	1472.8	1472.8	1467.8	1459.1
5°	1608.0	1601.8	1593.1	1594.4	1589.4	1589.4	1574.5	1546.0	1521.2	1511.2	1485.2
7.5°	1620.4	1626.6	1625.4	1640.3	1647.7	1647.7	1655.2	1631.6	1594.4	1570.8	1544.7
10°	1645.2	1629.1	1627.9	1662.6	1673.8	1699.8	1729.6	1717.2	1686.2	1652.7	1618.0
12.5°	1660.1	1670.1	1670.1	1687.4	1713.5	1752.0	1804.1	1827.6	1779.3	1744.5	1691.2
15°	1682.5	1668.8	1708.5	1723.4	1773.0	1800.3	1874.8	1935.6	1903.3	1861.1	1776.8
17.5°	1692.4	1683.7	1706.0	1733.3	1817.7	1858.7	1949.2	2033.6	2006.3	1979.0	1892.2
20°	1743.3	1742.0	1752.0	1774.3	1835.1	1915.7	2028.6	2145.3	2155.2	2105.6	1987.7
22.5°	1867.3	1851.2	1851.2	1842.5	1868.6	1951.7	2104.3	2265.6	2310.3	2252.0	2095.6
25°	1981.5	2003.8	1990.2	1950.5	1940.6	1984.0	2158.9	2393.4	2453.0	2398.4	2242.1
27.5°	2127.9	2135.3	2158.9	2105.6	2037.3	2051.0	2218.5	2465.4	2588.2	2515.0	2325.2
30°	2338.8	2325.2	2320.2	2260.7	2171.3	2152.7	2286.7	2570.9	2765.7	2662.7	2423.2
32.5°	2481.5	2515.0	2513.8	2431.9	2323.9	2283.0	2371.1	2670.1	2955.5	2860.0	2604.4
35°	2764.4	2799.2	2771.9	2651.5	2524.9	2443.1	2492.7	2799.2	3172.6	3098.2	2758.2
37.5°	3125.5	3207.4	3149.1	2927.0	2748.3	2659.0	2661.4	2939.4	3394.7	3333.9	2923.2
40°	3374.9	3485.3	3404.6	3196.2	3006.4	2922.0	2888.5	3105.6	3660.2	3595.7	3181.3
42.5°	3683.8	3775.6	3733.5	3527.5	3305.4	3233.4	3166.4	3383.6	4066.0	4036.2	3512.6
45°	4021.3	4064.7	4051.1	3920.8	3673.9	3649.1	3501.4	3749.6	4543.7	4556.1	3927.0
47.5°	4335.2	4358.8	4384.8	4290.6	4136.7	4157.8	3887.3	4141.7	5007.7	5089.6	4388.6
50°	4415.9	4496.5	4557.3	4620.6	4654.1	4796.8	4312.9	4623.1	5541.2	5700.1	4902.2
52.5°	4334.0	4327.8	4512.6	4711.2	5046.2	5345.2	4892.3	5221.1	6012.7	6326.6	5372.5
55°	3961.8	3949.3	4247.1	4510.2	5164.0	5650.4	5719.9	6017.7	6582.2	6990.4	6009.0
57.5°	3310.4	3233.4	3558.5	3990.3	4908.5	5683.9	6551.2	7200.1	7458.2	7923.5	6980.5
60°	2224.7	2192.4	2503.9	3018.8	3985.3	5208.7	7048.8	8680.4	8692.8	9216.4	8488.0
62.5°	1369.8	1376.0	1575.8	1961.6	2790.5	4129.3	6834.1	9862.8	9865.3	10390.1	9728.8
65°	895.8	899.6	1060.9	1274.3	1743.3	2800.4	5651.7	9955.9	10680.5	11168.1	10297.1
66°	797.8	799.1	938.0	1111.7	1444.2	2291.7	4991.6	9713.9	10864.1	11271.1	10289.6
67.5°	672.5	688.6	800.3	934.3	1126.6	1646.5	3960.5	9014.1	10769.8	11127.1	10056.4
70°	526.1	534.8	622.9	759.3	845.0	952.9	2353.7	7347.8	9857.8	10437.3	9207.7
72.5°	421.9	429.3	496.3	616.7	686.1	627.8	1281.7	5331.6	7787.0	8404.9	7242.3
75°	356.1	357.3	389.6	485.1	564.5	471.5	682.4	3422.0	4996.5	5284.4	4437.0
77.5°	287.9	292.8	315.2	369.7	454.1	371.0	407.0	1917.0	2508.8	2529.9	2051.0
80°	234.5	237.0	250.6	269.2	346.2	274.2	275.4	935.5	1075.7	1050.9	833.8
82.5°	184.9	187.4	203.5	199.8	254.4	196.0	171.2	450.4	495.1	485.1	383.4
85°	104.2	104.2	160.1	160.1	161.3	124.1	104.2	212.2	261.8	244.4	179.9
87.5°	33.5	34.7	48.4	50.9	80.6	55.8	50.9	79.4	124.1	109.2	64.5
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°	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4	1424.4
2.5°	1454.2	1434.3	1425.6	1397.1	1389.7	1371.0	1362.4	1351.2	1347.5	1331.3	1346.2
5°	1465.3	1459.1	1424.4	1388.4	1361.1	1348.7	1330.1	1305.3	1302.8	1280.5	1278.0
7.5°	1512.5	1491.4	1430.6	1392.1	1337.5	1306.5	1265.6	1253.2	1237.0	1229.6	1245.7
10°	1585.7	1532.3	1441.8	1345.0	1278.0	1240.8	1211.0	1202.3	1203.5	1198.6	1191.1
12.5°	1637.8	1586.9	1423.2	1305.3	1218.4	1182.4	1180.0	1188.6	1202.3	1196.1	1204.8
15°	1712.3	1616.7	1409.5	1239.5	1170.0	1160.1	1158.9	1184.9	1183.7	1183.7	1182.4
17.5°	1781.7	1646.5	1359.9	1182.4	1119.2	1126.6	1135.3	1134.1	1146.5	1151.4	1160.1
20°	1869.8	1681.2	1290.4	1125.4	1080.7	1078.2	1077.0	1078.2	1090.6	1098.1	1091.9
22.5°	1946.8	1688.7	1232.1	1070.8	1034.8	1024.9	1008.7	1024.9	1018.7	1021.1	1028.6
25°	2013.8	1689.9	1148.9	1029.8	988.9	966.6	954.1	952.9	941.7	940.5	940.5
27.5°	2069.6	1647.7	1075.7	972.8	934.3	913.2	912.0	898.3	869.8	851.2	853.6
30°	2113.0	1615.5	1024.9	923.1	885.9	882.2	871.0	840.0	802.8	779.2	779.2
32.5°	2189.9	1551.0	955.4	872.3	853.6	848.7	822.6	795.3	760.6	738.3	734.5
35°	2247.0	1491.4	909.5	828.8	820.1	810.2	787.9	758.1	748.2	743.2	746.9
37.5°	2311.5	1424.4	853.6	791.6	800.3	781.7	755.6	742.0	776.7	768.0	771.8
40°	2414.5	1377.2	799.1	769.3	778.0	756.9	723.4	718.4	761.8	730.8	723.4
42.5°	2603.1	1376.0	765.5	735.8	742.0	725.8	696.1	693.6	711.0	673.7	662.6
45°	2837.6	1419.4	740.7	711.0	706.0	703.5	693.6	682.4	667.5	619.1	606.7
47.5°	3118.0	1490.2	735.8	673.7	679.9	701.0	688.6	660.1	621.6	590.6	584.4
50°	3458.0	1636.6	723.4	646.4	657.6	691.1	681.2	641.5	606.7	586.9	583.2
52.5°	3834.0	1821.4	707.2	604.3	629.1	682.4	687.4	650.2	599.3	581.9	579.4
55°	4276.9	2094.4	688.6	558.3	595.6	673.7	687.4	625.3	589.4	589.4	586.9
57.5°	5151.6	2585.7	650.2	516.2	565.8	657.6	667.5	626.6	590.6	590.6	585.6
60°	6434.6	3352.5	577.0	483.9	537.2	635.3	652.6	608.0	577.0	584.4	583.2
62.5°	7438.4	3585.8	514.9	452.9	508.7	594.3	632.8	588.1	560.8	588.1	590.6
65°	7653.0	3350.1	451.6	419.4	469.0	554.6	604.3	559.6	537.2	590.6	593.1
66°	7576.1	3166.4	429.3	409.5	451.6	534.8	586.9	549.7	524.8	588.1	589.4
67.5°	7233.6	2891.0	404.5	388.4	428.1	506.2	567.0	536.0	505.0	580.7	569.5
70°	6489.2	2451.7	362.3	351.1	394.6	459.1	521.1	501.3	474.0	534.8	514.9
72.5°	4997.8	1959.2	317.6	318.9	356.1	410.7	475.2	461.6	438.0	469.0	456.6
75°	3043.6	1251.9	276.7	279.2	310.2	364.8	431.8	421.9	393.3	410.7	404.5
77.5°	1348.7	620.4	233.3	238.2	263.0	321.4	376.0	359.8	330.0	333.8	331.3
80°	523.6	294.1	189.8	196.0	212.2	256.8	311.4	296.5	270.5	265.5	263.0
82.5°	251.9	163.8	146.4	148.9	155.1	204.7	268.0	249.4	214.7	192.3	192.3
85°	126.6	101.7	103.0	94.3	103.0	139.0	181.2	151.4	125.3	111.7	114.2
87.5°	50.9	50.9	50.9	43.4	45.9	65.8	84.4	57.1	52.1	31.0	31.0
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)