

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: P476439

Luminaire Tested: **IFLD-S-SA2E-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476439
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

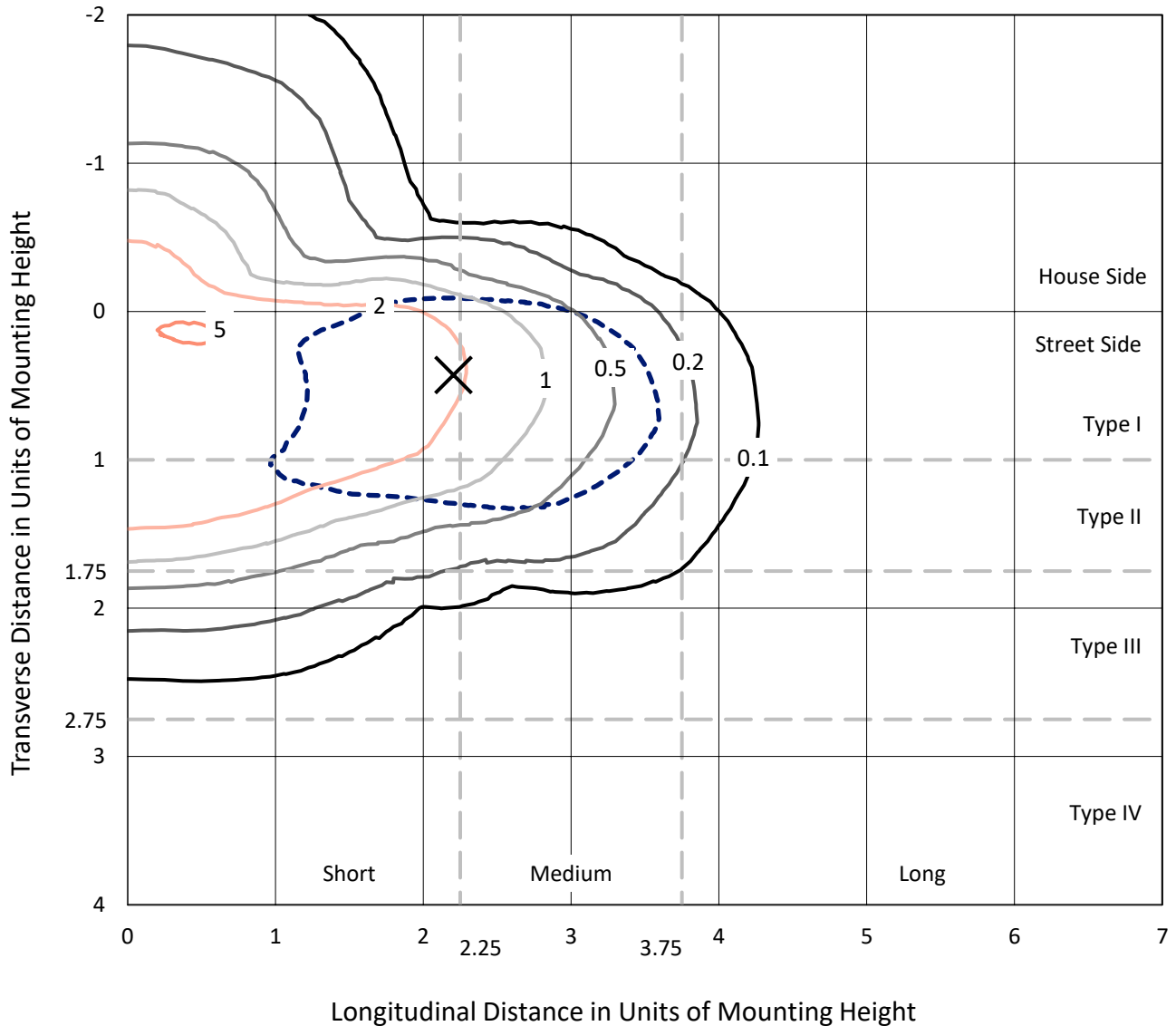
Lumens per Lamp: N/A
Luminaire Lumens: 13315.9 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
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

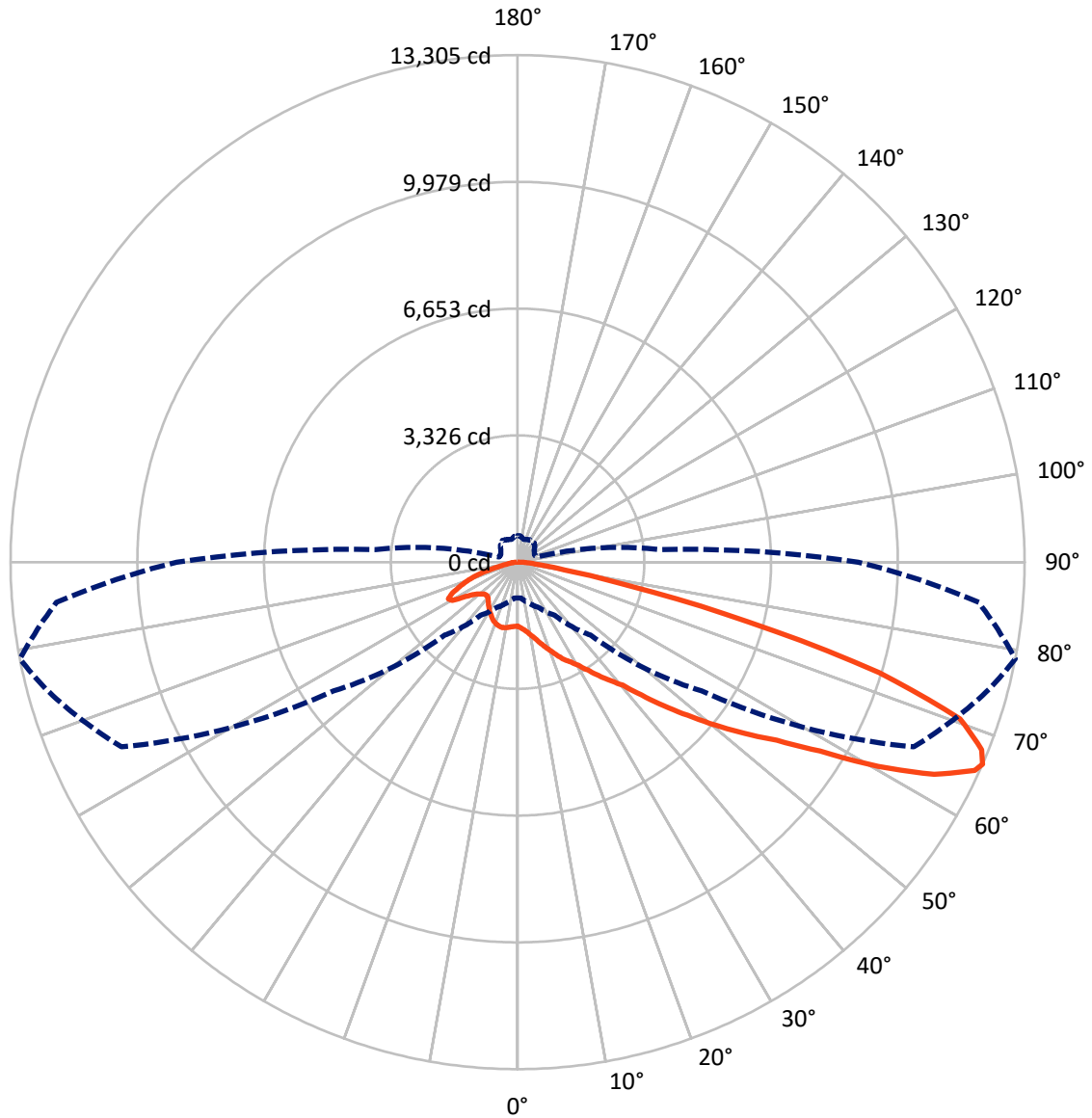
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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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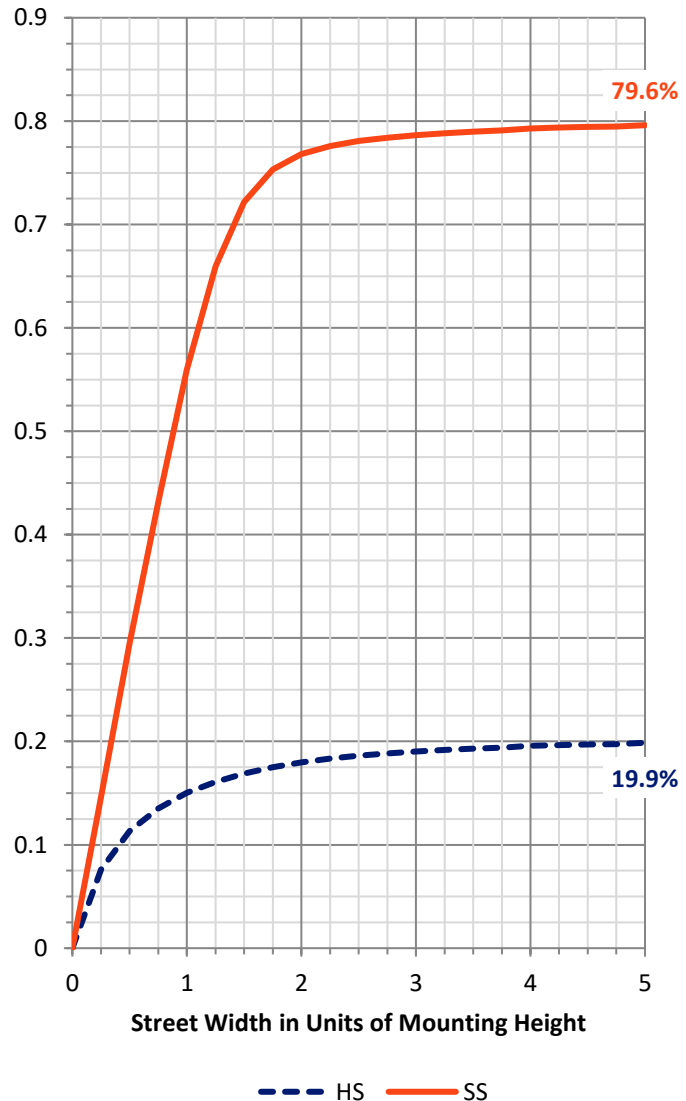
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2689.0	0.0	2689.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10626.9	0.0	10626.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	13315.9	0.0	13315.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.3	1.2
10°-20°	510.5	3.8
20°-30°	876.4	6.6
30°-40°	1353.8	10.2
40°-50°	2168.5	16.3
50°-60°	3237.7	24.3
60°-70°	3326.7	25.0
70°-80°	1474.7	11.1
80°-90°	202.3	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°	13315.9	100.0
0°-180°	13315.9	100.0

Coefficient of Utilization



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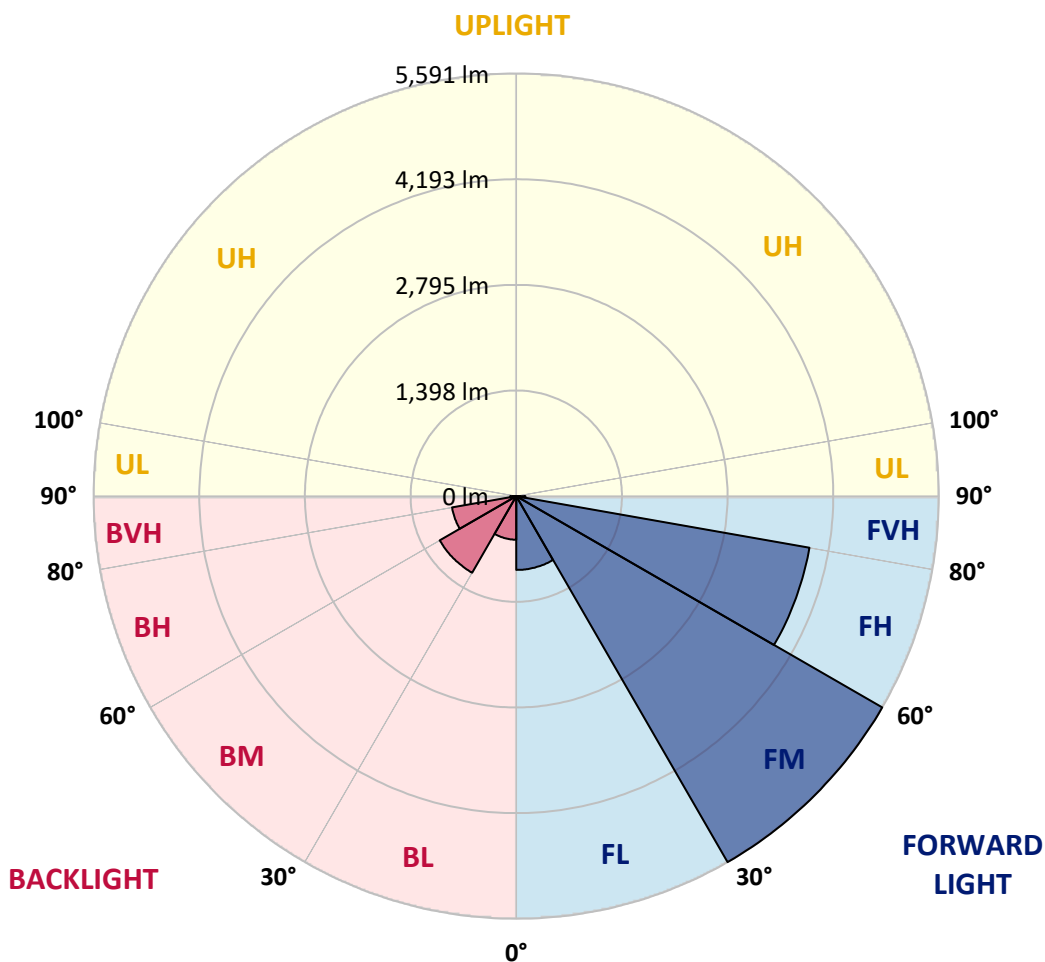
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	976.1	7.3			
FM (30°-60°)	5590.9	42.0			
FH (60°-80°)	3938.5	29.6			G2/5000
FVH (80°-90°)	121.4	0.9			G2/225
BL (0°-30°)	576.1	4.3	B2/1000		
BM (30°-60°)	1169.0	8.8	B2/2500		
BH (60°-80°)	862.8	6.5	B2/1000		G2/1000
BVH (80°-90°)	81.0	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°	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1788.3	1789.8	1789.8	1784.0	1785.4	1789.8	1773.7	1738.6	1738.6	1732.7	1722.4
5°	1898.2	1890.9	1880.6	1882.1	1876.2	1876.2	1858.7	1825.0	1795.7	1784.0	1753.2
7.5°	1912.8	1920.2	1918.7	1936.3	1945.1	1945.1	1953.9	1926.0	1882.1	1854.3	1823.5
10°	1942.1	1923.1	1921.6	1962.6	1975.8	2006.6	2041.7	2027.1	1990.5	1950.9	1909.9
12.5°	1959.7	1971.4	1971.4	1991.9	2022.7	2068.1	2129.6	2157.4	2100.3	2059.3	1996.3
15°	1986.1	1970.0	2016.8	2034.4	2093.0	2125.2	2213.1	2284.9	2246.8	2197.0	2097.4
17.5°	1997.8	1987.5	2013.9	2046.1	2145.7	2194.1	2301.0	2400.6	2368.4	2336.1	2233.6
20°	2057.8	2056.4	2068.1	2094.5	2166.2	2261.4	2394.7	2532.4	2544.1	2485.5	2346.4
22.5°	2204.3	2185.3	2185.3	2175.0	2205.8	2303.9	2484.1	2674.5	2727.2	2658.4	2473.8
25°	2339.1	2365.4	2349.3	2302.4	2290.7	2342.0	2548.5	2825.3	2895.6	2831.2	2646.6
27.5°	2511.9	2520.7	2548.5	2485.5	2405.0	2421.1	2618.8	2910.3	3055.3	2968.9	2744.8
30°	2760.9	2744.8	2738.9	2668.6	2563.2	2541.2	2699.4	3034.8	3264.7	3143.2	2860.5
32.5°	2929.3	2968.9	2967.4	2870.7	2743.3	2695.0	2799.0	3151.9	3488.8	3376.0	3074.3
35°	3263.3	3304.3	3272.0	3130.0	2980.6	2883.9	2942.5	3304.3	3745.1	3657.3	3255.9
37.5°	3689.5	3786.1	3717.3	3455.1	3244.2	3138.8	3141.7	3469.8	4007.3	3935.5	3450.7
40°	3983.9	4114.2	4019.0	3773.0	3548.9	3449.3	3409.7	3666.0	4320.7	4244.6	3755.4
42.5°	4348.6	4457.0	4407.2	4164.0	3901.9	3816.9	3737.8	3994.1	4799.7	4764.5	4146.5
45°	4747.0	4798.2	4782.1	4628.3	4336.9	4307.6	4133.3	4426.2	5363.6	5378.2	4635.6
47.5°	5117.5	5145.3	5176.1	5064.8	4883.2	4908.1	4588.8	4889.0	5911.4	6008.0	5180.5
50°	5212.7	5307.9	5379.7	5454.4	5493.9	5662.4	5091.2	5457.3	6541.2	6728.6	5786.9
52.5°	5116.1	5108.7	5327.0	5561.3	5956.8	6309.8	5775.2	6163.3	7097.7	7468.3	6342.0
55°	4676.7	4662.0	5013.5	5324.0	6095.9	6670.1	6752.1	7103.6	7770.0	8251.9	7093.3
57.5°	3907.7	3816.9	4200.6	4710.3	5794.2	6709.6	7733.4	8499.4	8804.1	9353.3	8240.2
60°	2626.1	2588.1	2955.7	3563.5	4704.5	6148.6	8320.7	10246.8	10261.4	10879.5	10019.7
62.5°	1617.0	1624.3	1860.1	2315.6	3294.0	4874.4	8067.3	11642.6	11645.5	12265.1	11484.4
65°	1057.5	1061.9	1252.3	1504.2	2057.8	3305.7	6671.5	11752.4	12607.8	13183.4	12155.2
66°	941.8	943.2	1107.3	1312.3	1704.9	2705.2	5892.3	11466.8	12824.6	13305.0	12146.4
67.5°	793.8	812.9	944.7	1102.9	1329.9	1943.6	4675.2	10640.8	12713.2	13135.1	11871.1
70°	621.0	631.3	735.3	896.4	997.4	1124.9	2778.5	8673.7	11636.7	12320.7	10869.2
72.5°	498.0	506.8	585.9	727.9	810.0	741.1	1513.0	6293.6	9192.2	9921.6	8549.2
75°	420.4	421.8	459.9	572.7	666.4	556.6	805.6	4039.5	5898.2	6238.0	5237.6
77.5°	339.8	345.7	372.0	436.5	536.1	437.9	480.4	2262.9	2961.5	2986.4	2421.1
80°	276.8	279.7	295.9	317.8	408.6	323.7	325.2	1104.4	1269.9	1240.6	984.3
82.5°	218.2	221.2	240.2	235.8	300.3	231.4	202.1	531.7	584.4	572.7	452.6
85°	123.0	123.0	188.9	188.9	190.4	146.5	123.0	250.5	309.0	288.5	212.4
87.5°	39.5	41.0	57.1	60.1	95.2	65.9	60.1	93.7	146.5	128.9	76.2
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°	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4	1681.4
2.5°	1716.6	1693.1	1682.9	1649.2	1640.4	1618.4	1608.2	1595.0	1590.6	1571.6	1589.2
5°	1729.8	1722.4	1681.4	1639.0	1606.7	1592.1	1570.1	1540.8	1537.9	1511.5	1508.6
7.5°	1785.4	1760.5	1688.8	1643.3	1578.9	1542.3	1494.0	1479.3	1460.3	1451.5	1470.5
10°	1871.8	1808.9	1701.9	1587.7	1508.6	1464.7	1429.5	1419.3	1420.7	1414.9	1406.1
12.5°	1933.4	1873.3	1680.0	1540.8	1438.3	1395.8	1392.9	1403.1	1419.3	1411.9	1422.2
15°	2021.2	1908.5	1663.9	1463.2	1381.2	1369.5	1368.0	1398.7	1397.3	1397.3	1395.8
17.5°	2103.3	1943.6	1605.3	1395.8	1321.1	1329.9	1340.2	1338.7	1353.3	1359.2	1369.5
20°	2207.2	1984.6	1523.2	1328.4	1275.7	1272.8	1271.3	1272.8	1287.4	1296.2	1288.9
22.5°	2298.1	1993.4	1454.4	1264.0	1221.5	1209.8	1190.8	1209.8	1202.5	1205.4	1214.2
25°	2377.1	1994.9	1356.3	1215.7	1167.3	1141.0	1126.3	1124.9	1111.7	1110.2	1110.2
27.5°	2443.1	1945.1	1269.9	1148.3	1102.9	1078.0	1076.5	1060.4	1026.7	1004.8	1007.7
30°	2494.3	1907.0	1209.8	1089.7	1045.8	1041.4	1028.2	991.6	947.6	919.8	919.8
32.5°	2585.1	1830.8	1127.8	1029.7	1007.7	1001.8	971.1	938.8	897.8	871.5	867.1
35°	2652.5	1760.5	1073.6	978.4	968.1	956.4	930.1	894.9	883.2	877.3	881.7
37.5°	2728.7	1681.4	1007.7	934.5	944.7	922.7	892.0	875.9	916.9	906.6	911.0
40°	2850.2	1625.8	943.2	908.1	918.3	893.4	853.9	848.0	899.3	862.7	853.9
42.5°	3072.9	1624.3	903.7	868.5	875.9	856.8	821.7	818.7	839.2	795.3	782.1
45°	3349.7	1675.6	874.4	839.2	833.4	830.5	818.7	805.6	788.0	730.9	716.2
47.5°	3680.7	1759.1	868.5	795.3	802.6	827.5	812.9	779.2	733.8	697.2	689.9
50°	4082.0	1931.9	853.9	763.1	776.3	815.8	804.1	757.2	716.2	692.8	688.4
52.5°	4525.8	2150.1	834.9	713.3	742.6	805.6	811.4	767.5	707.4	686.9	684.0
55°	5048.7	2472.3	812.9	659.1	703.0	795.3	811.4	738.2	695.7	695.7	692.8
57.5°	6081.3	3052.4	767.5	609.3	667.9	776.3	788.0	739.7	697.2	697.2	691.3
60°	7595.7	3957.5	681.1	571.2	634.2	749.9	770.4	717.7	681.1	689.9	688.4
62.5°	8780.6	4232.9	607.8	534.6	600.5	701.6	747.0	694.2	662.0	694.2	697.2
65°	9034.0	3954.6	533.1	495.1	553.6	654.7	713.3	660.6	634.2	697.2	700.1
66°	8943.2	3737.8	506.8	483.3	533.1	631.3	692.8	648.8	619.6	694.2	695.7
67.5°	8539.0	3412.7	477.5	458.4	505.3	597.6	669.3	632.7	596.1	685.5	672.3
70°	7660.2	2894.2	427.7	414.5	465.8	541.9	615.2	591.7	559.5	631.3	607.8
72.5°	5899.6	2312.7	375.0	376.4	420.4	484.8	561.0	544.9	517.0	553.6	539.0
75°	3592.8	1477.8	326.6	329.5	366.2	430.6	509.7	498.0	464.3	484.8	477.5
77.5°	1592.1	732.3	275.4	281.2	310.5	379.3	443.8	424.8	389.6	394.0	391.1
80°	618.1	347.1	224.1	231.4	250.5	303.2	367.6	350.1	319.3	313.4	310.5
82.5°	297.3	193.3	172.8	175.8	183.1	241.7	316.4	294.4	253.4	227.0	227.0
85°	149.4	120.1	121.6	111.3	121.6	164.0	213.8	178.7	147.9	131.8	134.7
87.5°	60.1	60.1	60.1	51.3	54.2	77.6	99.6	67.4	61.5	36.6	36.6
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)