

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: P476618

Luminaire Tested: **IFLD-M-SA4C-740-U-T2**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476618
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

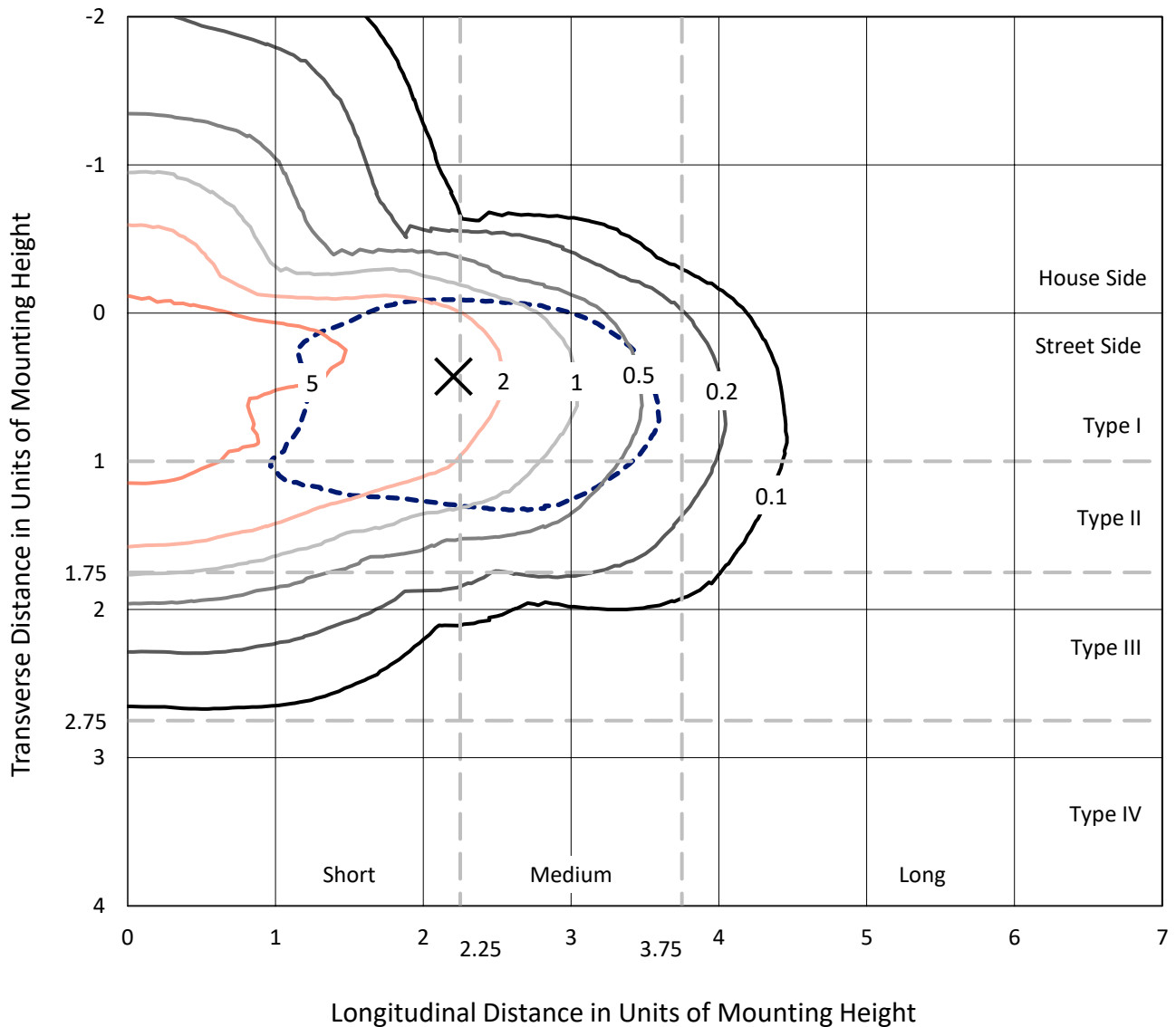
Lumens per Lamp: N/A
Luminaire Lumens: 28397.4 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

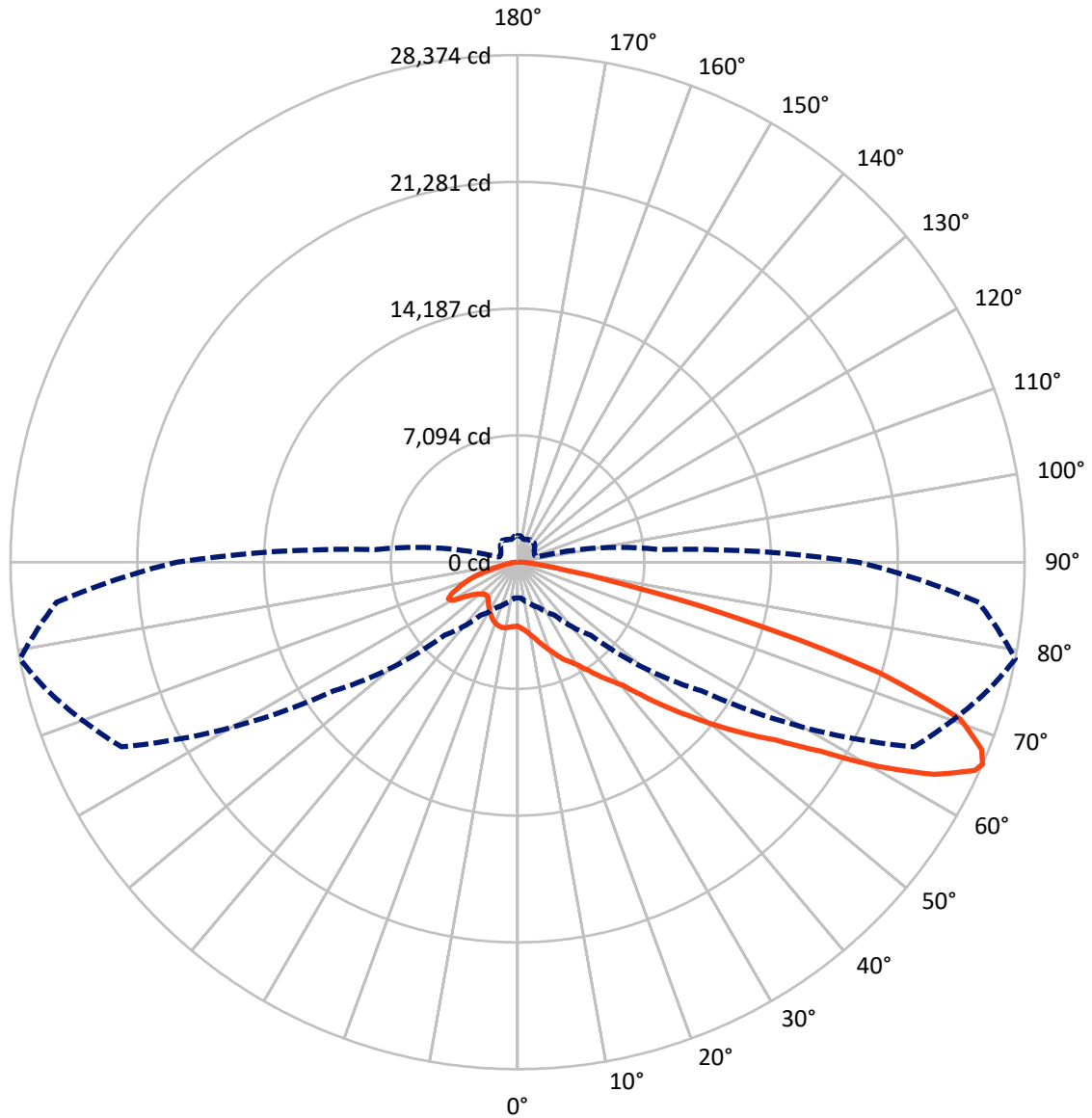
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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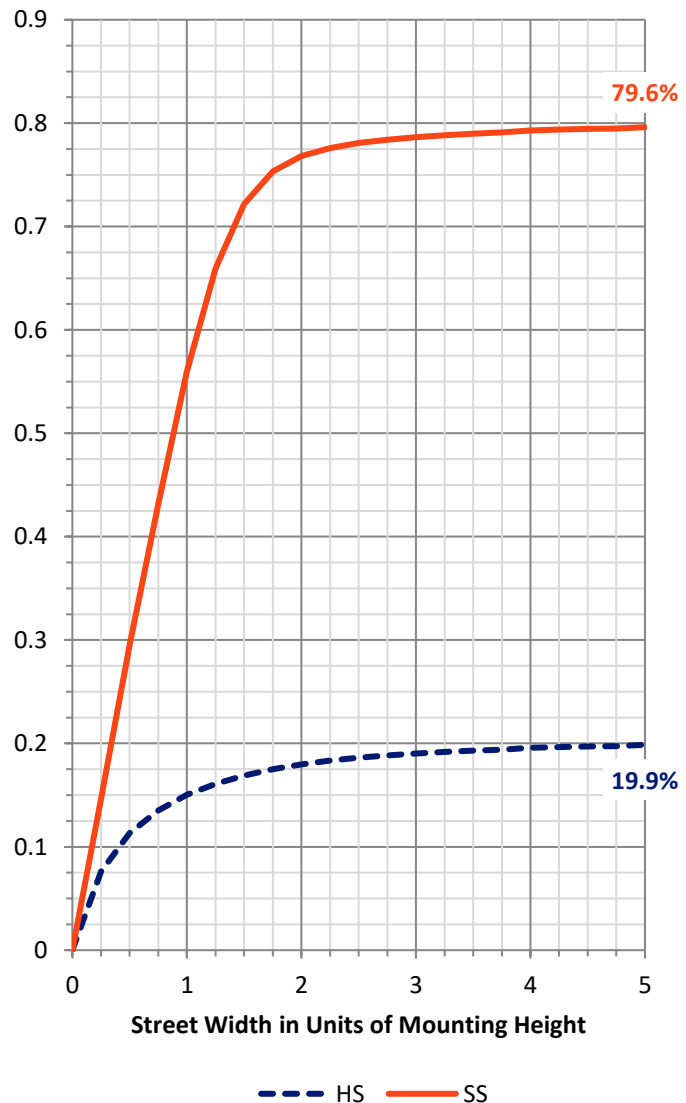
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5734.5	0.0	5734.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	22662.9	0.0	22662.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	28397.4	0.0	28397.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.6	1.2
10°-20°	1088.8	3.8
20°-30°	1868.9	6.6
30°-40°	2887.1	10.2
40°-50°	4624.4	16.3
50°-60°	6904.6	24.3
60°-70°	7094.5	25.0
70°-80°	3144.9	11.1
80°-90°	431.5	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°	28397.4	100.0
0°-180°	28397.4	100.0

Coefficient of Utilization

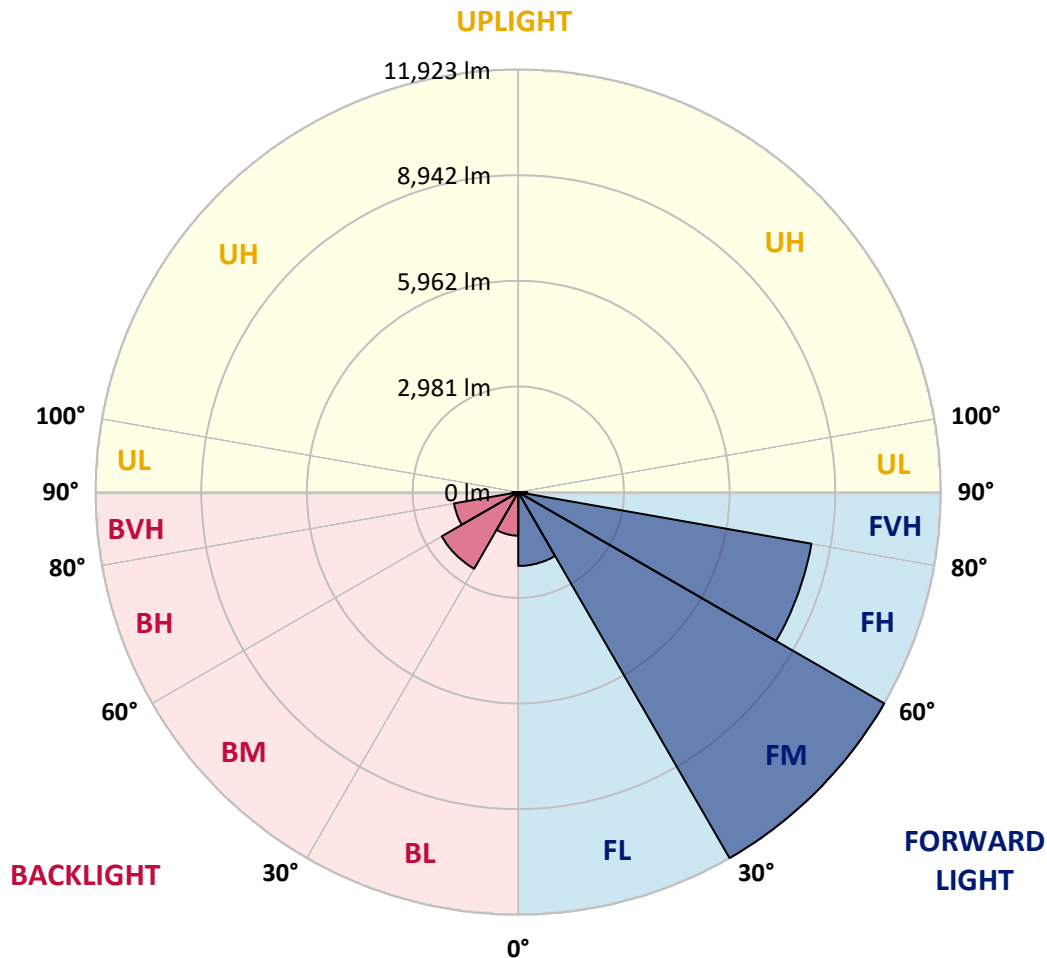


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2081.7	7.3			
FM (30°-60°)	11923.1	42.0			
FH (60°-80°)	8399.3	29.6			G4/12000
FVH (80°-90°)	258.8	0.9			G3/500
BL (0°-30°)	1228.6	4.3	B3/2500		
BM (30°-60°)	2493.1	8.8	B2/2500		
BH (60°-80°)	1840.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	172.7	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8
2.5°	3813.8	3816.9	3816.9	3804.4	3807.6	3816.9	3782.6	3707.6	3707.6	3695.1	3673.3
5°	4048.1	4032.5	4010.6	4013.7	4001.2	4001.2	3963.7	3891.9	3829.4	3804.4	3738.9
7.5°	4079.3	4094.9	4091.8	4129.3	4148.0	4148.0	4166.8	4107.4	4013.7	3954.4	3888.8
10°	4141.8	4101.2	4098.1	4185.5	4213.6	4279.2	4354.2	4323.0	4244.9	4160.5	4073.1
12.5°	4179.3	4204.3	4204.3	4248.0	4313.6	4410.4	4541.6	4600.9	4479.1	4391.7	4257.4
15°	4235.5	4201.1	4301.1	4338.6	4463.5	4532.2	4719.6	4872.7	4791.5	4685.3	4472.9
17.5°	4260.5	4238.6	4294.8	4363.6	4576.0	4679.0	4907.0	5119.4	5050.7	4982.0	4763.4
20°	4388.5	4385.4	4410.4	4466.6	4619.7	4822.7	5107.0	5400.6	5425.6	5300.6	5003.9
22.5°	4700.9	4660.3	4660.3	4638.4	4704.0	4913.3	5297.5	5703.5	5816.0	5669.2	5275.6
25°	4988.3	5044.5	5010.1	4910.2	4885.2	4994.5	5434.9	6025.3	6175.2	6037.8	5644.2
27.5°	5356.8	5375.6	5434.9	5300.6	5128.8	5163.2	5584.9	6206.4	6515.7	6331.4	5853.5
30°	5887.8	5853.5	5841.0	5691.1	5466.2	5419.3	5756.6	6471.9	6962.3	6703.1	6100.2
32.5°	6247.0	6331.4	6328.2	6122.1	5850.4	5747.3	5969.0	6721.8	7440.2	7199.7	6556.3
35°	6959.2	7046.7	6977.9	6675.0	6356.4	6150.2	6275.1	7046.7	7986.8	7799.4	6943.6
37.5°	7868.1	8074.3	7927.5	7368.4	6918.6	6693.7	6699.9	7399.6	8545.9	8392.9	7359.0
40°	8496.0	8774.0	8570.9	8046.2	7568.3	7355.9	7271.6	7818.2	9214.4	9052.0	8008.7
42.5°	9273.7	9504.9	9398.7	8880.2	8321.1	8139.9	7971.2	8517.8	10235.8	10160.8	8842.7
45°	10123.3	10232.6	10198.3	9870.3	9248.7	9186.3	8814.6	9439.3	11438.3	11469.6	9885.9
47.5°	10913.6	10972.9	11038.5	10801.1	10413.8	10466.9	9786.0	10426.3	12606.5	12812.7	11047.9
50°	11116.6	11319.6	11472.7	11632.0	11716.3	12075.5	10857.4	11638.2	13949.6	14349.4	12341.0
52.5°	10910.5	10894.8	11360.2	11860.0	12703.4	13456.1	12316.0	13143.8	15136.6	15926.8	13524.8
55°	9973.4	9942.2	10691.8	11354.0	13000.1	14224.5	14399.4	15149.1	16570.3	17597.9	15127.2
57.5°	8333.5	8139.9	8958.3	10045.2	12356.6	14308.8	16492.2	18125.8	18775.5	19946.8	17572.9
60°	5600.5	5519.3	6303.3	7599.5	10032.7	13112.5	17744.7	21852.1	21883.4	23201.5	21368.0
62.5°	3448.4	3464.0	3966.9	4938.3	7024.8	10395.1	17204.3	24828.9	24835.1	26156.3	24491.5
65°	2255.2	2264.6	2670.6	3207.9	4388.5	7049.8	14227.6	25063.1	26887.3	28114.8	25922.1
66°	2008.4	2011.5	2361.4	2798.7	3635.8	5769.1	12565.9	24454.0	27349.5	28374.0	25903.3
67.5°	1692.9	1733.6	2014.7	2352.0	2836.2	4144.9	9970.3	22692.4	27112.1	28011.7	25316.1
70°	1324.4	1346.2	1568.0	1911.6	2127.1	2398.9	5925.3	18497.5	24816.4	26275.0	23179.6
72.5°	1062.0	1080.7	1249.4	1552.4	1727.3	1580.5	3226.6	13421.8	19603.2	21158.7	18232.0
75°	896.4	899.6	980.8	1221.3	1421.2	1186.9	1717.9	8614.7	12578.4	13303.1	11169.7
77.5°	724.7	737.2	793.4	930.8	1143.2	933.9	1024.5	4825.8	6315.8	6368.9	5163.2
80°	590.3	596.6	631.0	677.8	871.5	690.3	693.4	2355.1	2708.1	2645.6	2099.0
82.5°	465.4	471.7	512.3	502.9	640.3	493.5	431.0	1133.8	1246.3	1221.3	965.2
85°	262.4	262.4	402.9	402.9	406.1	312.4	262.4	534.1	659.1	615.3	452.9
87.5°	84.3	87.5	121.8	128.1	203.0	140.6	128.1	199.9	312.4	274.9	162.4
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°	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8	3585.8
2.5°	3660.8	3610.8	3588.9	3517.1	3498.3	3451.5	3429.6	3401.5	3392.1	3351.5	3389.0
5°	3688.9	3673.3	3585.8	3495.2	3426.5	3395.3	3348.4	3285.9	3279.7	3223.5	3217.2
7.5°	3807.6	3754.5	3601.4	3504.6	3367.2	3289.1	3186.0	3154.8	3114.1	3095.4	3136.0
10°	3991.9	3857.5	3629.5	3385.9	3217.2	3123.5	3048.6	3026.7	3029.8	3017.3	2998.6
12.5°	4123.0	3995.0	3582.7	3285.9	3067.3	2976.7	2970.5	2992.3	3026.7	3011.1	3032.9
15°	4310.5	4069.9	3548.3	3120.4	2945.5	2920.5	2917.4	2983.0	2979.8	2979.8	2976.7
17.5°	4485.4	4144.9	3423.4	2976.7	2817.4	2836.2	2858.0	2854.9	2886.1	2898.6	2920.5
20°	4707.1	4232.4	3248.5	2833.0	2720.6	2714.3	2711.2	2714.3	2745.6	2764.3	2748.7
22.5°	4900.8	4251.1	3101.7	2695.6	2605.0	2580.0	2539.4	2580.0	2564.4	2570.7	2589.4
25°	5069.5	4254.2	2892.4	2592.5	2489.4	2433.2	2402.0	2398.9	2370.8	2367.6	2367.6
27.5°	5210.0	4148.0	2708.1	2448.8	2352.0	2298.9	2295.8	2261.4	2189.6	2142.7	2149.0
30°	5319.4	4066.8	2580.0	2323.9	2230.2	2220.8	2192.7	2114.6	2020.9	1961.6	1961.6
32.5°	5513.0	3904.4	2405.1	2195.8	2149.0	2136.5	2070.9	2002.2	1914.7	1858.5	1849.1
35°	5656.7	3754.5	2289.5	2086.5	2064.6	2039.7	1983.4	1908.5	1883.5	1871.0	1880.4
37.5°	5819.1	3585.8	2149.0	1992.8	2014.7	1967.8	1902.2	1867.9	1955.3	1933.5	1942.8
40°	6078.4	3467.1	2011.5	1936.6	1958.4	1905.3	1821.0	1808.5	1917.8	1839.8	1821.0
42.5°	6553.1	3464.0	1927.2	1852.2	1867.9	1827.3	1752.3	1746.0	1789.8	1696.1	1668.0
45°	7143.5	3573.3	1864.7	1789.8	1777.3	1771.0	1746.0	1717.9	1680.5	1558.6	1527.4
47.5°	7849.4	3751.3	1852.2	1696.1	1711.7	1764.8	1733.6	1661.7	1564.9	1486.8	1471.2
50°	8705.2	4119.9	1821.0	1627.4	1655.5	1739.8	1714.8	1614.9	1527.4	1477.4	1468.1
52.5°	9651.7	4585.3	1780.4	1521.2	1583.6	1717.9	1730.4	1636.7	1508.7	1464.9	1458.7
55°	10766.8	5272.5	1733.6	1405.6	1499.3	1696.1	1730.4	1574.3	1483.7	1483.7	1477.4
57.5°	12968.9	6509.4	1636.7	1299.4	1424.3	1655.5	1680.5	1577.4	1486.8	1486.8	1474.3
60°	16198.6	8439.7	1452.4	1218.2	1352.5	1599.2	1643.0	1530.5	1452.4	1471.2	1468.1
62.5°	18725.5	9027.0	1296.3	1140.1	1280.6	1496.2	1593.0	1480.5	1411.8	1480.5	1486.8
65°	19265.9	8433.5	1137.0	1055.7	1180.7	1396.2	1521.2	1408.7	1352.5	1486.8	1493.0
66°	19072.2	7971.2	1080.7	1030.8	1137.0	1346.2	1477.4	1383.7	1321.2	1480.5	1483.7
67.5°	18210.1	7277.8	1018.3	977.7	1077.6	1274.4	1427.4	1349.4	1271.3	1461.8	1433.7
70°	16336.0	6172.1	912.1	884.0	993.3	1155.7	1311.9	1261.9	1193.2	1346.2	1296.3
72.5°	12581.5	4932.0	799.6	802.7	896.4	1033.9	1196.3	1161.9	1102.6	1180.7	1149.5
75°	7662.0	3151.6	696.5	702.8	780.9	918.3	1087.0	1062.0	990.2	1033.9	1018.3
77.5°	3395.3	1561.8	587.2	599.7	662.2	809.0	946.4	905.8	830.9	840.2	834.0
80°	1318.1	740.3	477.9	493.5	534.1	646.6	784.0	746.5	680.9	668.4	662.2
82.5°	634.1	412.3	368.6	374.8	390.4	515.4	674.7	627.8	540.4	484.1	484.1
85°	318.6	256.1	259.3	237.4	259.3	349.8	456.0	381.1	315.5	281.1	287.4
87.5°	128.1	128.1	128.1	109.3	115.6	165.5	212.4	143.7	131.2	78.1	78.1
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)