

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: P476471

Luminaire Tested: **IFLD-L-SA8B-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476471
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

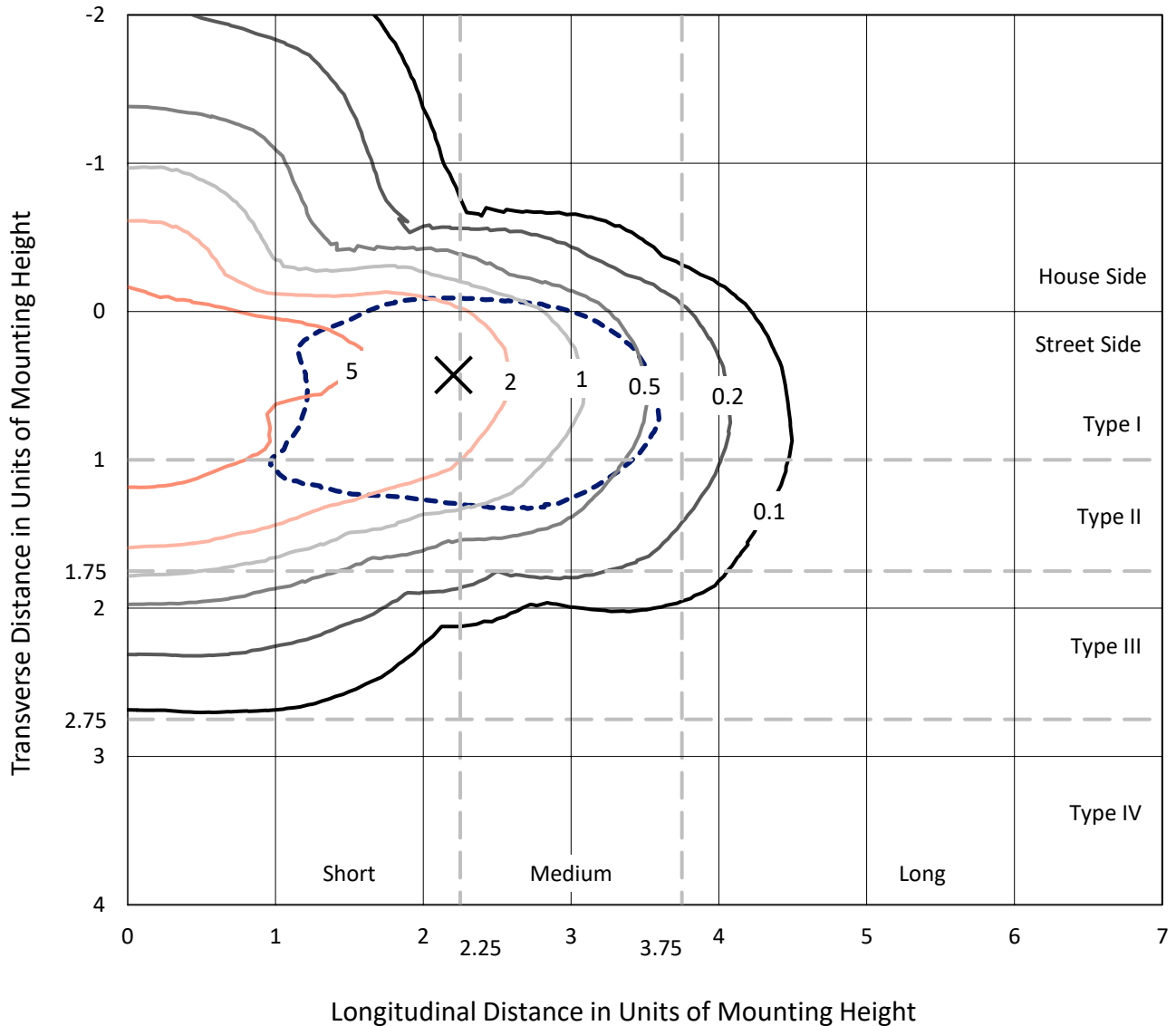
Lumens per Lamp: N/A
Luminaire Lumens: 29942.5 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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

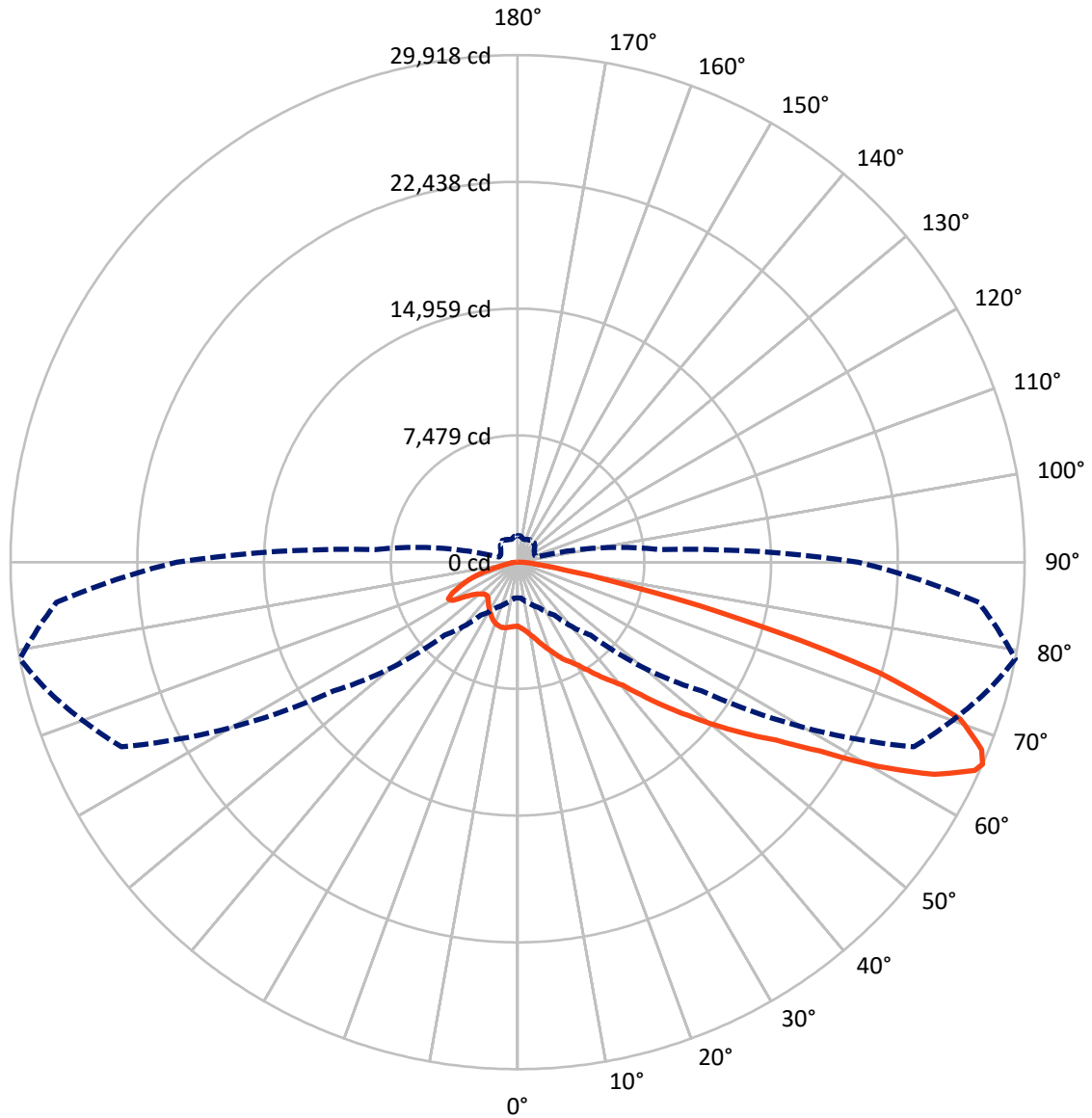
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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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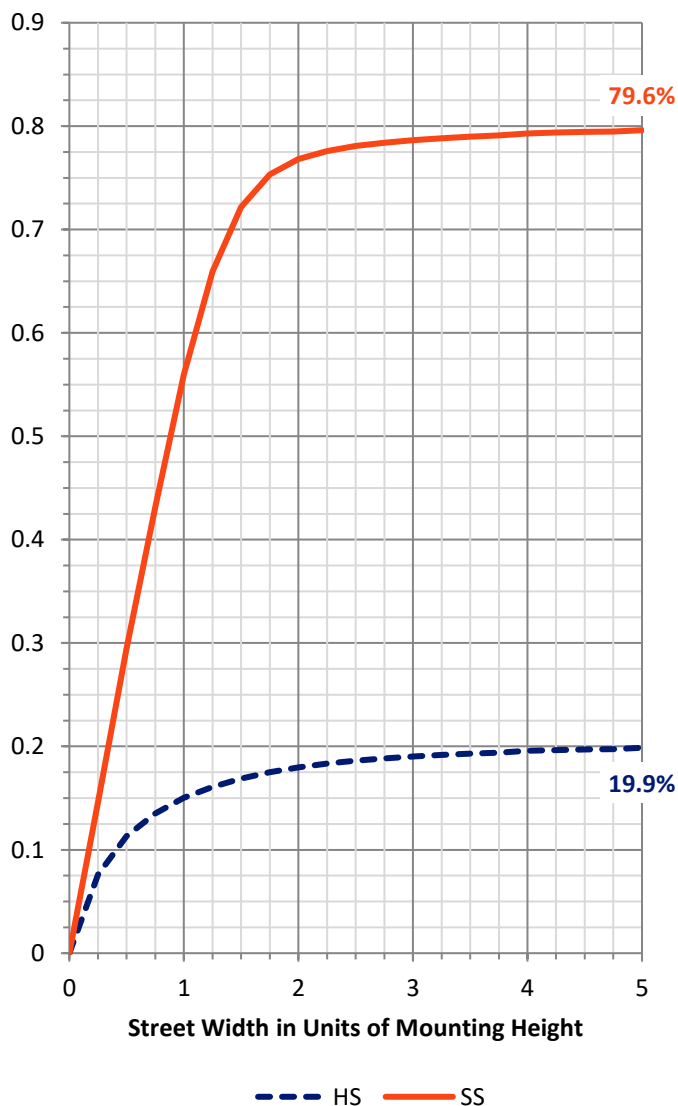
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6046.5	0.0	6046.5
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	23896.0	0.0	23896.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	29942.5	0.0	29942.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.8	1.2
10°-20°	1148.0	3.8
20°-30°	1970.6	6.6
30°-40°	3044.2	10.2
40°-50°	4876.1	16.3
50°-60°	7280.3	24.3
60°-70°	7480.5	25.0
70°-80°	3316.0	11.1
80°-90°	455.0	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°	29942.5	100.0
0°-180°	29942.5	100.0

Coefficient of Utilization



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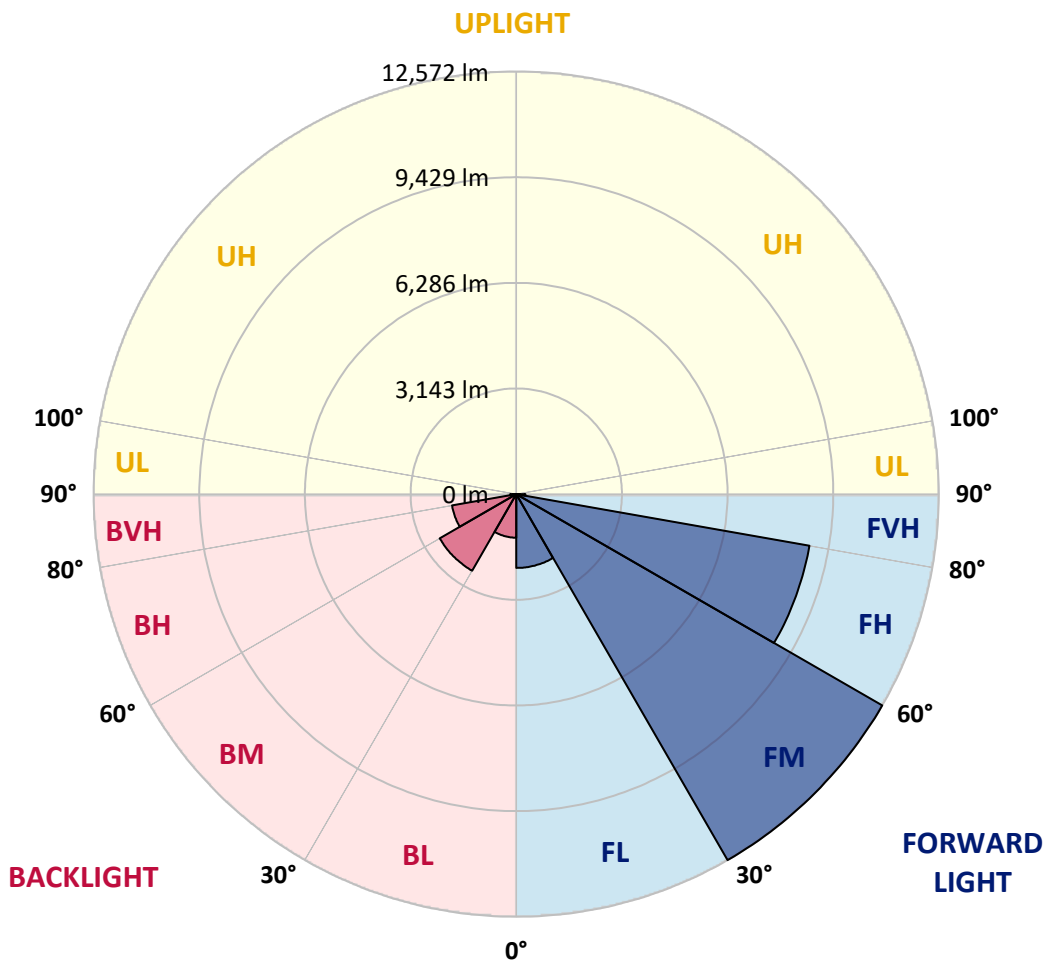
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2195.0	7.3			
FM (30°-60°)	12571.8	42.0			
FH (60°-80°)	8856.3	29.6			G4/12000
FVH (80°-90°)	272.9	0.9			G3/500
BL (0°-30°)	1295.4	4.3	B3/2500		
BM (30°-60°)	2628.7	8.8	B3/5000		
BH (60°-80°)	1940.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	182.1	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°	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9
2.5°	4021.3	4024.6	4024.6	4011.4	4014.7	4024.6	3988.4	3909.3	3909.3	3896.2	3873.1
5°	4268.3	4251.9	4228.8	4232.1	4218.9	4218.9	4179.4	4103.7	4037.8	4011.4	3942.3
7.5°	4301.3	4317.7	4314.4	4354.0	4373.7	4373.7	4393.5	4330.9	4232.1	4169.5	4100.4
10°	4367.1	4324.3	4321.0	4413.2	4442.9	4512.1	4591.1	4558.2	4475.8	4386.9	4294.7
12.5°	4406.7	4433.0	4433.0	4479.1	4548.3	4650.4	4788.7	4851.3	4722.8	4630.6	4489.0
15°	4465.9	4429.7	4535.1	4574.6	4706.4	4778.8	4976.4	5137.8	5052.2	4940.2	4716.2
17.5°	4492.3	4469.2	4528.5	4601.0	4824.9	4933.6	5174.0	5398.0	5325.5	5253.1	5022.5
20°	4627.3	4624.0	4650.4	4709.7	4871.0	5085.1	5384.8	5694.4	5720.8	5589.0	5276.1
22.5°	4956.7	4913.9	4913.9	4890.8	4960.0	5180.6	5585.7	6013.9	6132.4	5977.6	5562.7
25°	5259.7	5319.0	5282.7	5177.3	5151.0	5266.3	5730.6	6353.1	6511.2	6366.3	5951.3
27.5°	5648.3	5668.1	5730.6	5589.0	5407.9	5444.1	5888.7	6544.1	6870.2	6675.9	6172.0
30°	6208.2	6172.0	6158.8	6000.7	5763.6	5714.2	6069.9	6824.1	7341.1	7067.8	6432.1
32.5°	6586.9	6675.9	6672.6	6455.2	6168.7	6060.0	6293.8	7087.5	7845.0	7591.4	6913.0
35°	7337.9	7430.1	7357.6	7038.1	6702.2	6484.8	6616.6	7430.1	8421.4	8223.8	7321.4
37.5°	8296.3	8513.6	8358.8	7769.3	7295.0	7057.9	7064.5	7802.2	9010.9	8849.6	7759.4
40°	8958.2	9251.4	9037.3	8484.0	7980.1	7756.1	7667.2	8243.6	9715.7	9544.5	8444.5
42.5°	9778.3	10022.0	9910.1	9363.3	8773.8	8582.8	8404.9	8981.3	10792.7	10713.7	9323.8
45°	10674.1	10789.4	10753.2	10407.4	9752.0	9686.1	9294.2	9952.9	12060.7	12093.6	10423.8
47.5°	11507.4	11570.0	11639.1	11388.8	10980.4	11036.4	10318.4	10993.6	13292.4	13509.8	11649.0
50°	11721.5	11935.5	12096.9	12264.9	12353.8	12732.6	11448.1	12271.5	14708.6	15130.2	13012.5
52.5°	11504.1	11487.6	11978.3	12505.3	13394.5	14188.3	12986.2	13858.9	15960.2	16793.4	14260.7
55°	10516.0	10483.1	11273.5	11971.8	13707.4	14998.5	15182.9	15973.3	17471.9	18555.4	15950.3
57.5°	8787.0	8582.8	9445.7	10591.8	13029.0	15087.4	17389.5	19112.0	19797.0	21032.1	18529.1
60°	5905.2	5819.6	6646.2	8013.0	10578.6	13826.0	18710.2	23041.1	23074.0	24463.9	22530.6
62.5°	3636.0	3652.5	4182.7	5207.0	7407.0	10960.7	18140.4	26179.8	26186.4	27579.5	25824.1
65°	2377.9	2387.8	2815.9	3382.4	4627.3	7433.4	15001.8	26426.8	28350.2	29644.5	27332.5
66°	2117.7	2121.0	2489.9	2950.9	3833.6	6083.0	13249.6	25784.6	28837.6	29917.9	27312.7
67.5°	1785.1	1827.9	2124.3	2480.0	2990.5	4370.4	10512.8	23927.1	28587.3	29535.8	26693.6
70°	1396.4	1419.5	1653.3	2015.6	2242.9	2529.4	6247.7	19503.9	26166.6	27704.7	24440.8
72.5°	1119.8	1139.5	1317.4	1636.9	1821.3	1666.5	3402.2	14152.0	20669.8	22310.0	19224.0
75°	945.2	948.5	1034.1	1287.7	1498.5	1251.5	1811.4	9083.4	13262.8	14026.9	11777.4
77.5°	764.1	777.3	836.5	981.5	1205.4	984.7	1080.3	5088.4	6659.4	6715.4	5444.1
80°	622.5	629.1	665.3	714.7	918.9	727.9	731.2	2483.3	2855.4	2789.6	2213.2
82.5°	490.7	497.3	540.1	530.2	675.2	520.4	454.5	1195.5	1314.1	1287.7	1017.7
85°	276.7	276.7	424.9	424.9	428.2	329.3	276.7	563.2	694.9	648.8	477.6
87.5°	88.9	92.2	128.4	135.0	214.1	148.2	135.0	210.8	329.3	289.8	171.3
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°	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9	3780.9
2.5°	3859.9	3807.3	3784.2	3708.4	3688.7	3639.3	3616.2	3586.6	3576.7	3533.9	3573.4
5°	3889.6	3873.1	3780.9	3685.4	3612.9	3580.0	3530.6	3464.7	3458.1	3398.9	3392.3
7.5°	4014.7	3958.8	3797.4	3695.3	3550.4	3468.0	3359.3	3326.4	3283.6	3263.8	3306.6
10°	4209.1	4067.4	3827.0	3570.1	3392.3	3293.5	3214.4	3191.4	3194.7	3181.5	3161.7
12.5°	4347.4	4212.3	3777.6	3464.7	3234.2	3138.7	3132.1	3155.1	3191.4	3174.9	3198.0
15°	4545.0	4291.4	3741.4	3290.2	3105.7	3079.4	3076.1	3145.3	3142.0	3142.0	3138.7
17.5°	4729.4	4370.4	3609.6	3138.7	2970.7	2990.5	3013.5	3010.2	3043.2	3056.3	3079.4
20°	4963.3	4462.7	3425.2	2987.2	2868.6	2862.0	2858.7	2862.0	2895.0	2914.7	2898.3
22.5°	5167.5	4482.4	3270.4	2842.3	2746.8	2720.4	2677.6	2720.4	2703.9	2710.5	2730.3
25°	5345.3	4485.7	3049.8	2733.6	2624.9	2565.6	2532.7	2529.4	2499.7	2496.5	2496.5
27.5°	5493.5	4373.7	2855.4	2582.1	2480.0	2424.0	2420.7	2384.5	2308.7	2259.3	2265.9
30°	5608.8	4288.1	2720.4	2450.3	2351.5	2341.7	2312.0	2229.7	2130.9	2068.3	2068.3
32.5°	5813.0	4116.8	2536.0	2315.3	2265.9	2252.7	2183.6	2111.1	2018.9	1959.6	1949.7
35°	5964.5	3958.8	2414.1	2200.0	2177.0	2150.6	2091.4	2012.3	1986.0	1972.8	1982.7
37.5°	6135.7	3780.9	2265.9	2101.2	2124.3	2074.9	2005.7	1969.5	2061.7	2038.7	2048.5
40°	6409.1	3655.8	2121.0	2042.0	2065.0	2009.0	1920.1	1906.9	2022.2	1939.9	1920.1
42.5°	6909.7	3652.5	2032.1	1953.0	1969.5	1926.7	1847.6	1841.0	1887.2	1788.4	1758.7
45°	7532.2	3767.7	1966.2	1887.2	1874.0	1867.4	1841.0	1811.4	1771.9	1643.4	1610.5
47.5°	8276.5	3955.5	1953.0	1788.4	1804.8	1860.8	1827.9	1752.1	1650.0	1567.7	1551.2
50°	9178.9	4344.1	1920.1	1715.9	1745.5	1834.5	1808.1	1702.7	1610.5	1557.8	1547.9
52.5°	10176.8	4834.8	1877.3	1603.9	1669.8	1811.4	1824.6	1725.8	1590.7	1544.6	1538.1
55°	11352.6	5559.4	1827.9	1482.1	1580.9	1788.4	1824.6	1659.9	1564.4	1564.4	1557.8
57.5°	13674.5	6863.6	1725.8	1370.1	1501.8	1745.5	1771.9	1663.2	1567.7	1567.7	1554.5
60°	17079.9	8899.0	1531.5	1284.5	1426.1	1686.3	1732.4	1613.8	1531.5	1551.2	1547.9
62.5°	19744.4	9518.1	1366.8	1202.1	1350.3	1577.6	1679.7	1561.1	1488.6	1561.1	1567.7
65°	20314.1	8892.4	1198.8	1113.2	1244.9	1472.2	1603.9	1485.4	1426.1	1567.7	1574.3
66°	20109.9	8404.9	1139.5	1086.8	1198.8	1419.5	1557.8	1459.0	1393.1	1561.1	1564.4
67.5°	19200.9	7673.8	1073.7	1030.9	1136.2	1343.7	1505.1	1422.8	1340.4	1541.3	1511.7
70°	17224.8	6507.9	961.7	932.1	1047.3	1218.6	1383.3	1330.6	1258.1	1419.5	1366.8
72.5°	13266.1	5200.4	843.1	846.4	945.2	1090.1	1261.4	1225.2	1162.6	1244.9	1212.0
75°	8078.9	3323.1	734.4	741.0	823.4	968.3	1146.1	1119.8	1044.0	1090.1	1073.7
77.5°	3580.0	1646.7	619.2	632.3	698.2	853.0	997.9	955.1	876.1	885.9	879.4
80°	1389.8	780.6	503.9	520.4	563.2	681.7	826.7	787.1	718.0	704.8	698.2
82.5°	668.6	434.7	388.6	395.2	411.7	543.4	711.4	662.0	569.8	510.5	510.5
85°	335.9	270.1	273.4	250.3	273.4	368.9	480.8	401.8	332.6	296.4	303.0
87.5°	135.0	135.0	135.0	115.3	121.9	174.6	224.0	151.5	138.3	82.3	82.3
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)