

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: P476470

Luminaire Tested: **IFLD-L-SA8A-722-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-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

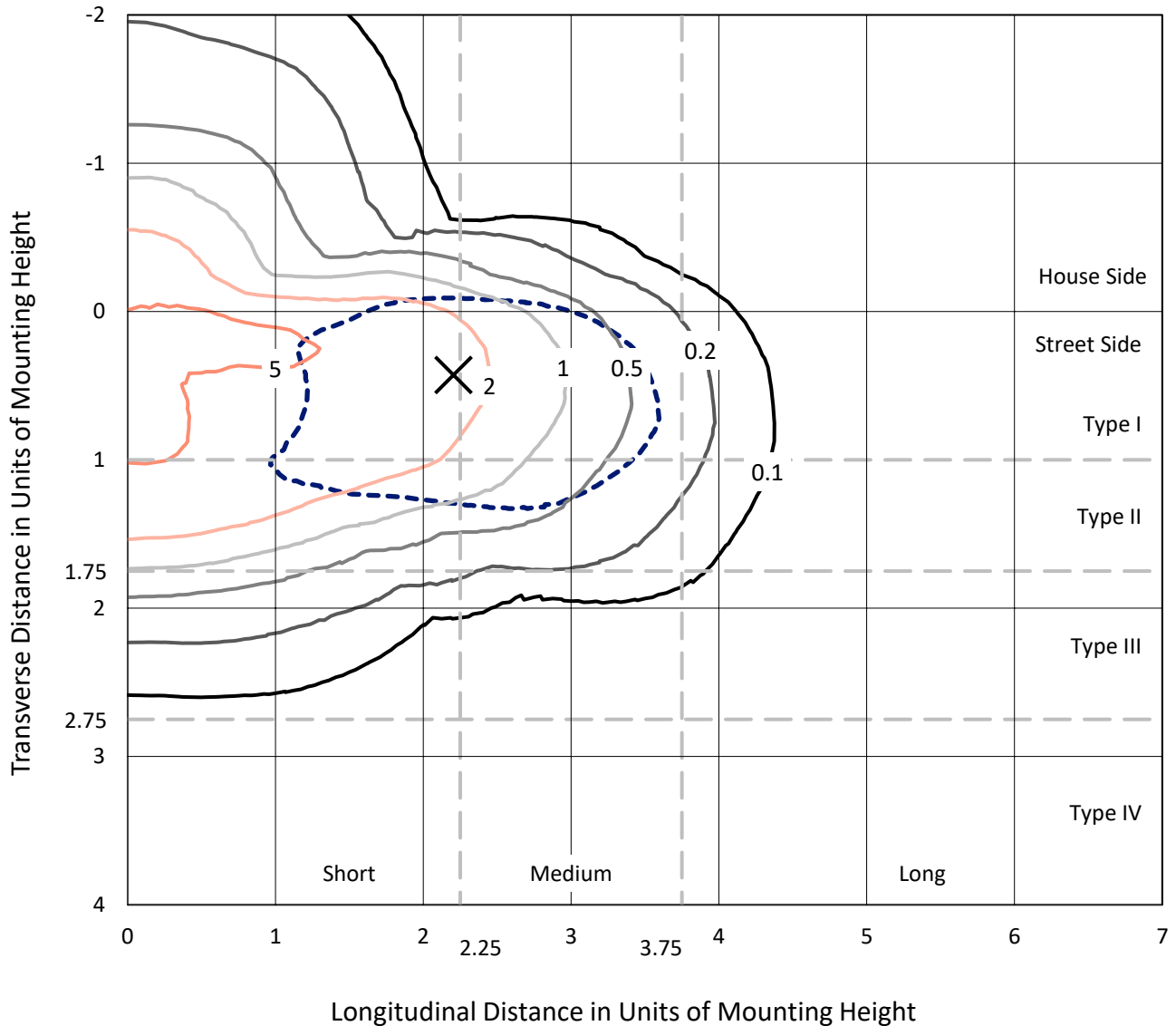
Lumens per Lamp: N/A
Luminaire Lumens: 25202.7 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 247.8
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

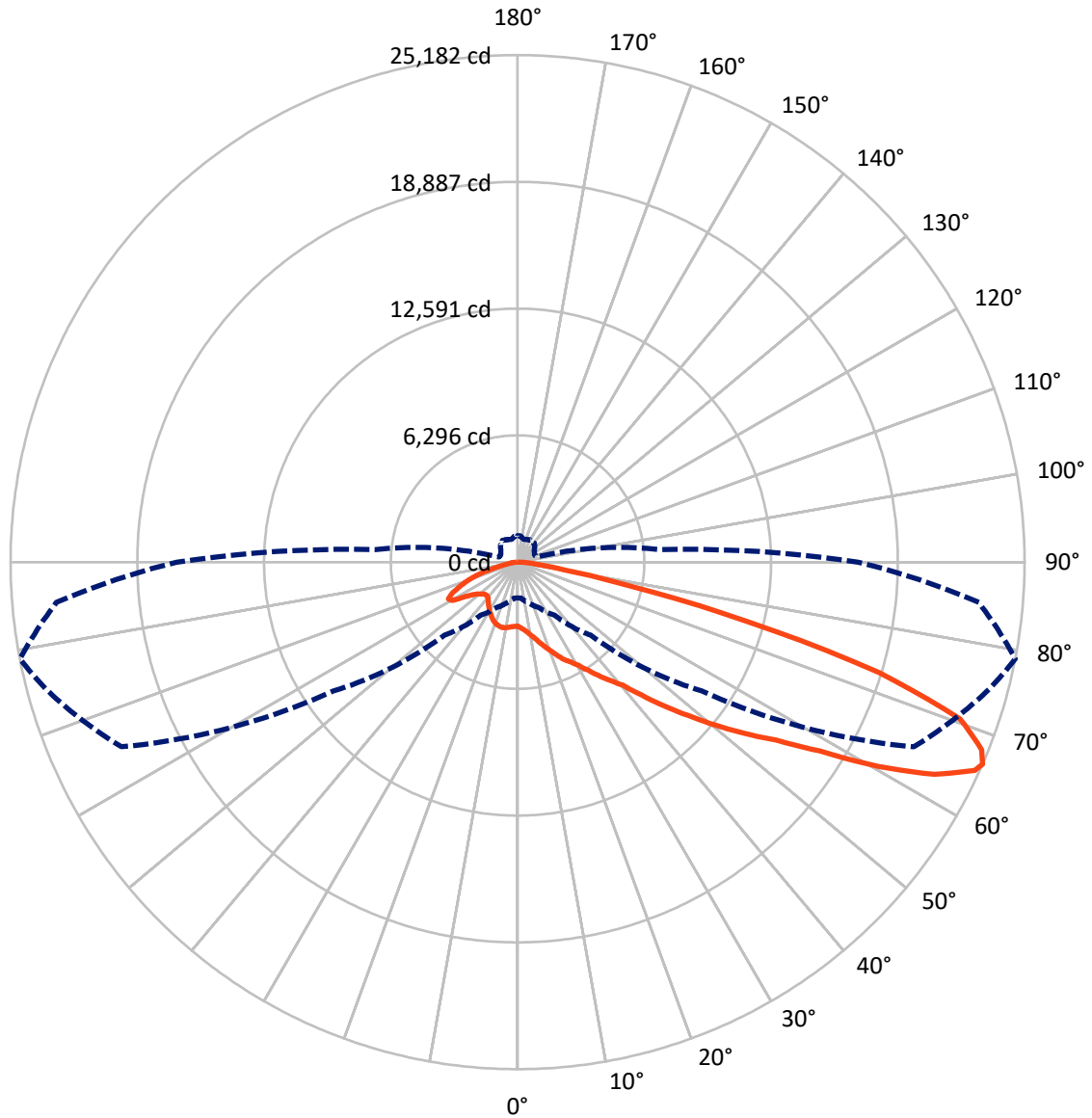
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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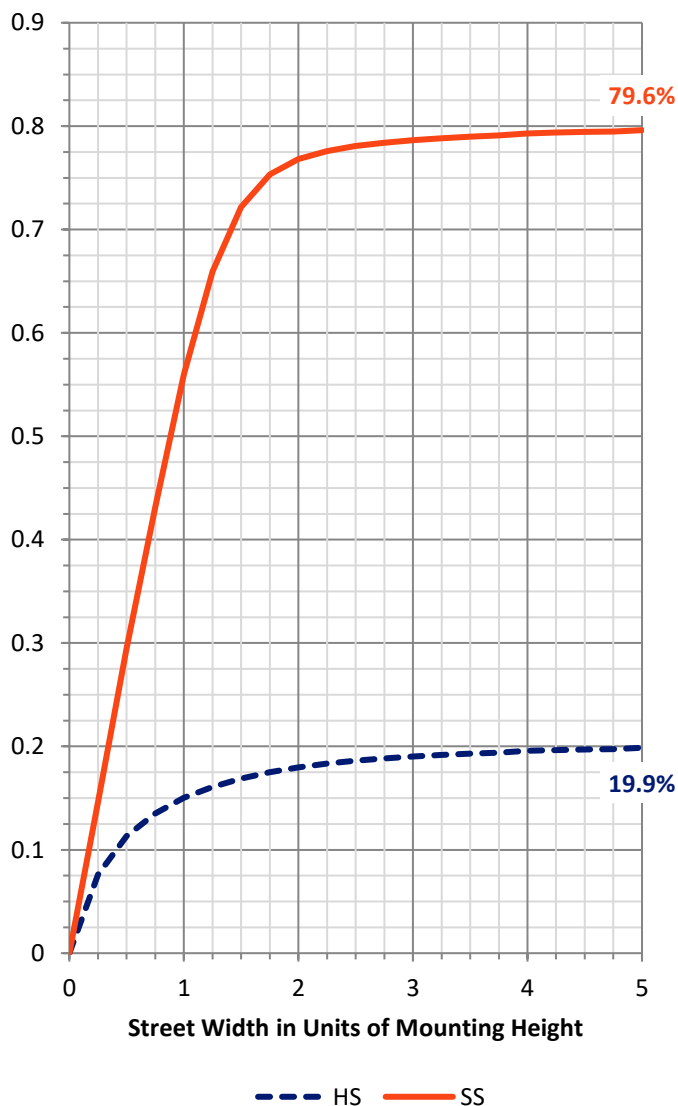
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5089.3	0.0	5089.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	20113.4	0.0	20113.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	25202.7	0.0	25202.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	1.2
10°-20°	966.3	3.8
20°-30°	1658.7	6.6
30°-40°	2562.3	10.2
40°-50°	4104.2	16.3
50°-60°	6127.9	24.3
60°-70°	6296.4	25.0
70°-80°	2791.1	11.1
80°-90°	383.0	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°	25202.7	100.0
0°-180°	25202.7	100.0

Coefficient of Utilization



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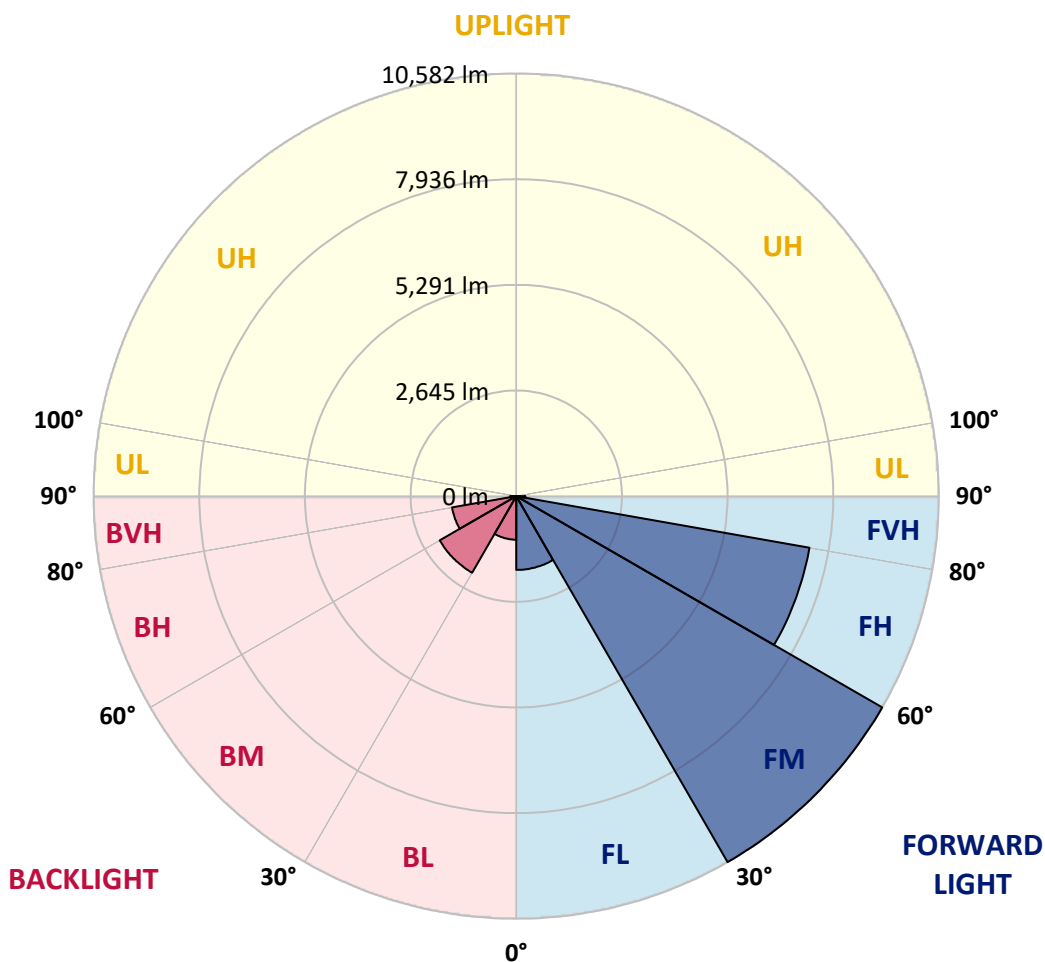
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1847.5	7.3			
FM (30°-60°)	10581.8	42.0			
FH (60°-80°)	7454.4	29.6			G3/7500
FVH (80°-90°)	229.7	0.9			G3/500
BL (0°-30°)	1090.4	4.3	B3/2500		
BM (30°-60°)	2212.6	8.8	B2/2500		
BH (60°-80°)	1633.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	153.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4
2.5°	3384.8	3387.5	3387.5	3376.4	3379.2	3387.5	3357.0	3290.5	3290.5	3279.4	3260.0
5°	3592.7	3578.8	3559.4	3562.2	3551.1	3551.1	3517.8	3454.1	3398.6	3376.4	3318.2
7.5°	3620.4	3634.3	3631.5	3664.8	3681.4	3681.4	3698.0	3645.3	3562.2	3509.5	3451.3
10°	3675.8	3639.8	3637.0	3714.6	3739.6	3797.8	3864.3	3836.6	3767.3	3692.5	3614.9
12.5°	3709.1	3731.3	3731.3	3770.1	3828.3	3914.2	4030.7	4083.3	3975.2	3897.6	3778.4
15°	3759.0	3728.5	3817.2	3850.5	3961.4	4022.4	4188.7	4324.5	4252.4	4158.2	3969.7
17.5°	3781.2	3761.8	3811.7	3872.7	4061.2	4152.6	4355.0	4543.5	4482.5	4421.5	4227.5
20°	3894.8	3892.1	3914.2	3964.1	4100.0	4280.2	4532.4	4793.0	4815.2	4704.3	4440.9
22.5°	4172.0	4136.0	4136.0	4116.6	4174.8	4360.6	4701.5	5061.9	5161.7	5031.4	4682.1
25°	4427.1	4477.0	4446.5	4357.8	4335.6	4432.6	4823.5	5347.4	5480.5	5358.5	5009.2
27.5°	4754.2	4770.8	4823.5	4704.3	4551.8	4582.3	4956.6	5508.2	5782.7	5619.1	5195.0
30°	5225.5	5195.0	5183.9	5050.8	4851.2	4809.6	5109.0	5743.8	6179.1	5949.0	5414.0
32.5°	5544.3	5619.1	5616.3	5433.4	5192.2	5100.7	5297.5	5965.6	6603.2	6389.8	5818.7
35°	6176.3	6253.9	6192.9	5924.0	5641.3	5458.3	5569.2	6253.9	7088.3	6922.0	6162.4
37.5°	6983.0	7165.9	7035.7	6539.4	6140.3	5940.7	5946.2	6567.2	7584.5	7448.7	6531.1
40°	7540.2	7786.9	7606.7	7141.0	6716.9	6528.4	6453.5	6938.6	8177.8	8033.6	7107.7
42.5°	8230.4	8435.6	8341.3	7881.2	7384.9	7224.2	7074.5	7559.6	9084.3	9017.7	7847.9
45°	8984.5	9081.5	9051.0	8759.9	8208.3	8152.8	7822.9	8377.4	10151.5	10179.2	8773.8
47.5°	9685.8	9738.5	9796.7	9586.0	9242.3	9289.4	8685.1	9253.4	11188.3	11371.3	9805.0
50°	9866.0	10046.2	10182.0	10323.4	10398.2	10717.0	9635.9	10328.9	12380.3	12735.1	10952.7
52.5°	9683.0	9669.2	10082.2	10525.8	11274.2	11942.3	10930.5	11665.1	13433.7	14135.1	12003.3
55°	8851.4	8823.7	9489.0	10076.7	11537.6	12624.3	12779.5	13444.8	14706.1	15618.2	13425.4
57.5°	7396.0	7224.2	7950.5	8915.2	10966.5	12699.1	14636.8	16086.6	16663.3	17702.8	15596.0
60°	4970.4	4898.3	5594.2	6744.6	8904.1	11637.4	15748.4	19393.8	19421.5	20591.4	18964.1
62.5°	3060.4	3074.3	3520.6	4382.7	6234.5	9225.6	15268.9	22035.6	22041.2	23213.8	21736.2
65°	2001.5	2009.8	2370.2	2847.0	3894.8	6256.7	12627.0	22243.5	23862.5	24951.9	23005.9
66°	1782.5	1785.2	2095.7	2483.8	3226.8	5120.1	11152.3	21703.0	24272.7	25182.0	22989.2
67.5°	1502.5	1538.5	1788.0	2087.4	2517.1	3678.6	8848.6	20139.5	24062.1	24860.4	22468.1
70°	1175.4	1194.8	1391.6	1696.5	1887.8	2129.0	5258.7	16416.5	22024.5	23319.1	20571.9
72.5°	942.5	959.2	1108.9	1377.7	1533.0	1402.7	2863.6	11911.8	17397.9	18778.4	16180.9
75°	795.6	798.4	870.4	1083.9	1261.3	1053.4	1524.7	7645.5	11163.4	11806.5	9913.1
77.5°	643.1	654.2	704.1	826.1	1014.6	828.9	909.3	4282.9	5605.2	5652.4	4582.3
80°	523.9	529.5	560.0	601.6	773.4	612.6	615.4	2090.2	2403.4	2348.0	1862.9
82.5°	413.0	418.6	454.6	446.3	568.3	438.0	382.6	1006.3	1106.1	1083.9	856.6
85°	232.9	232.9	357.6	357.6	360.4	277.2	232.9	474.0	584.9	546.1	402.0
87.5°	74.8	77.6	108.1	113.7	180.2	124.7	113.7	177.4	277.2	243.9	144.2
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°	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4	3182.4
2.5°	3248.9	3204.6	3185.2	3121.4	3104.8	3063.2	3043.8	3018.8	3010.5	2974.5	3007.8
5°	3273.9	3260.0	3182.4	3102.0	3041.0	3013.3	2971.7	2916.3	2910.7	2860.8	2855.3
7.5°	3379.2	3332.1	3196.3	3110.3	2988.4	2919.0	2827.6	2799.8	2763.8	2747.2	2783.2
10°	3542.8	3423.6	3221.2	3005.0	2855.3	2772.1	2705.6	2686.2	2689.0	2677.9	2661.2
12.5°	3659.2	3545.5	3179.6	2916.3	2722.2	2641.8	2636.3	2655.7	2686.2	2672.3	2691.7
15°	3825.5	3612.1	3149.1	2769.4	2614.1	2591.9	2589.2	2647.4	2644.6	2644.6	2641.8
17.5°	3980.8	3678.6	3038.3	2641.8	2500.5	2517.1	2536.5	2533.7	2561.4	2572.5	2591.9
20°	4177.6	3756.2	2883.0	2514.3	2414.5	2409.0	2406.2	2409.0	2436.7	2453.3	2439.5
22.5°	4349.5	3772.9	2752.7	2392.3	2312.0	2289.8	2253.7	2289.8	2275.9	2281.5	2298.1
25°	4499.2	3775.6	2567.0	2300.9	2209.4	2159.5	2131.8	2129.0	2104.0	2101.3	2101.3
27.5°	4623.9	3681.4	2403.4	2173.3	2087.4	2040.3	2037.5	2007.0	1943.3	1901.7	1907.2
30°	4720.9	3609.3	2289.8	2062.5	1979.3	1971.0	1946.0	1876.7	1793.6	1740.9	1740.9
32.5°	4892.8	3465.2	2134.5	1948.8	1907.2	1896.1	1837.9	1776.9	1699.3	1649.4	1641.1
35°	5020.3	3332.1	2032.0	1851.8	1832.4	1810.2	1760.3	1693.8	1671.6	1660.5	1668.8
37.5°	5164.5	3182.4	1907.2	1768.6	1788.0	1746.4	1688.2	1657.7	1735.4	1715.9	1724.3
40°	5394.6	3077.1	1785.2	1718.7	1738.1	1691.0	1616.1	1605.1	1702.1	1632.8	1616.1
42.5°	5815.9	3074.3	1710.4	1643.9	1657.7	1621.7	1555.2	1549.6	1588.4	1505.3	1480.3
45°	6339.9	3171.3	1655.0	1588.4	1577.3	1571.8	1549.6	1524.7	1491.4	1383.3	1355.6
47.5°	6966.4	3329.3	1643.9	1505.3	1519.1	1566.3	1538.5	1474.8	1388.8	1319.5	1305.7
50°	7725.9	3656.4	1616.1	1444.3	1469.2	1544.1	1521.9	1433.2	1355.6	1311.2	1302.9
52.5°	8565.9	4069.5	1580.1	1350.0	1405.5	1524.7	1535.8	1452.6	1338.9	1300.1	1294.6
55°	9555.5	4679.3	1538.5	1247.5	1330.6	1505.3	1535.8	1397.2	1316.8	1316.8	1311.2
57.5°	11509.9	5777.1	1452.6	1153.2	1264.1	1469.2	1491.4	1399.9	1319.5	1319.5	1308.4
60°	14376.2	7490.3	1289.0	1081.1	1200.3	1419.3	1458.1	1358.3	1289.0	1305.7	1302.9
62.5°	16618.9	8011.4	1150.4	1011.8	1136.6	1327.8	1413.8	1314.0	1253.0	1314.0	1319.5
65°	17098.5	7484.7	1009.1	937.0	1047.9	1239.1	1350.0	1250.2	1200.3	1319.5	1325.1
66°	16926.6	7074.5	959.2	914.8	1009.1	1194.8	1311.2	1228.1	1172.6	1314.0	1316.8
67.5°	16161.5	6459.1	903.7	867.7	956.4	1131.0	1266.9	1197.6	1128.3	1297.4	1272.4
70°	14498.2	5477.7	809.5	784.5	881.5	1025.7	1164.3	1119.9	1059.0	1194.8	1150.4
72.5°	11166.1	4377.2	709.7	712.4	795.6	917.6	1061.7	1031.2	978.6	1047.9	1020.1
75°	6800.0	2797.1	618.2	623.7	693.0	815.0	964.7	942.5	878.8	917.6	903.7
77.5°	3013.3	1386.1	521.2	532.2	587.7	718.0	840.0	803.9	737.4	745.7	740.2
80°	1169.8	657.0	424.1	438.0	474.0	573.8	695.8	662.5	604.3	593.2	587.7
82.5°	562.7	365.9	327.1	332.7	346.5	457.4	598.8	557.2	479.6	429.7	429.7
85°	282.8	227.3	230.1	210.7	230.1	310.5	404.7	338.2	280.0	249.5	255.0
87.5°	113.7	113.7	113.7	97.0	102.6	146.9	188.5	127.5	116.4	69.3	69.3
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)