

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: P476738

Luminaire Tested: **IFLD-L-SA7A-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476738
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

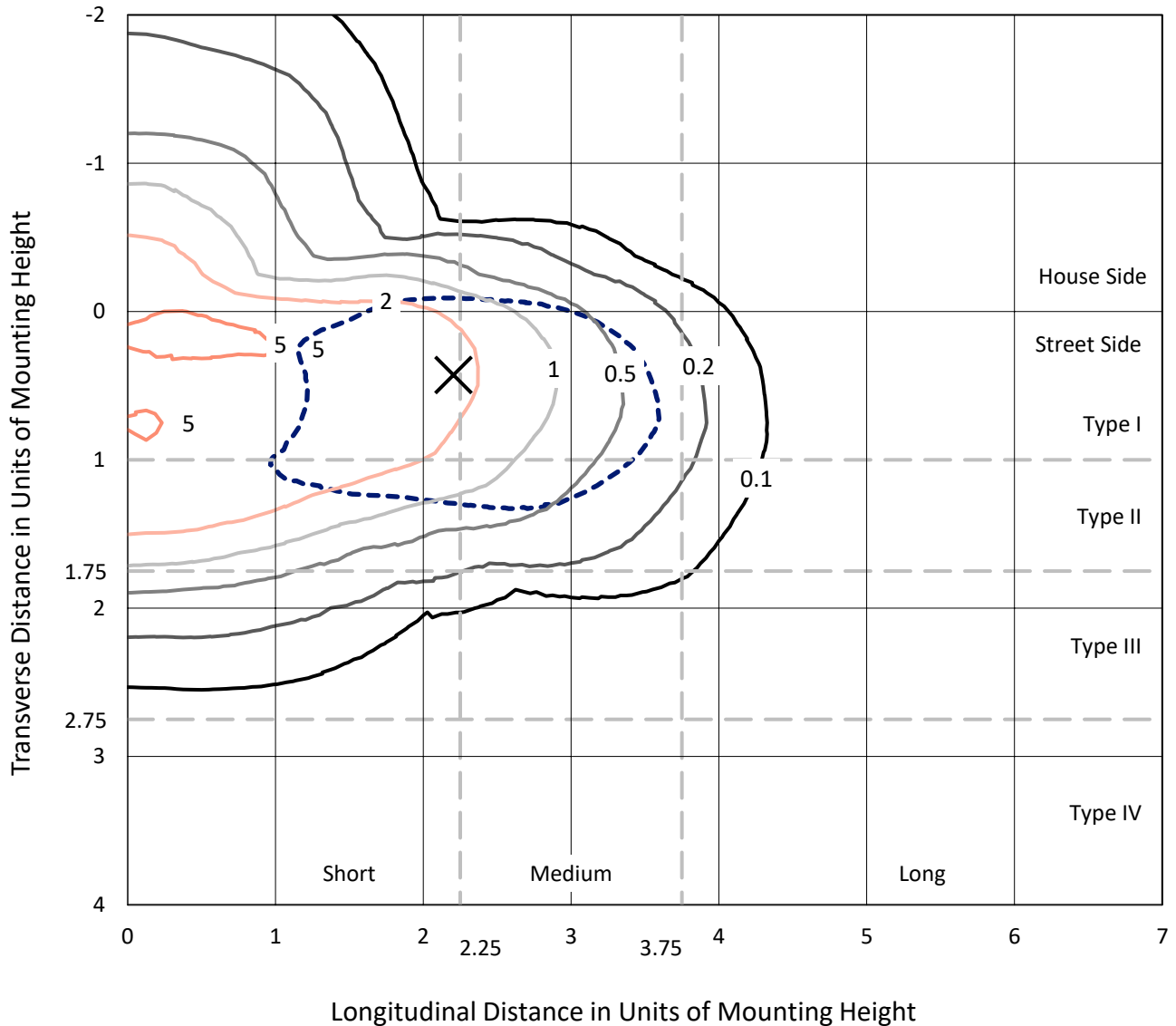
Lumens per Lamp: N/A
Luminaire Lumens: 22981.2 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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

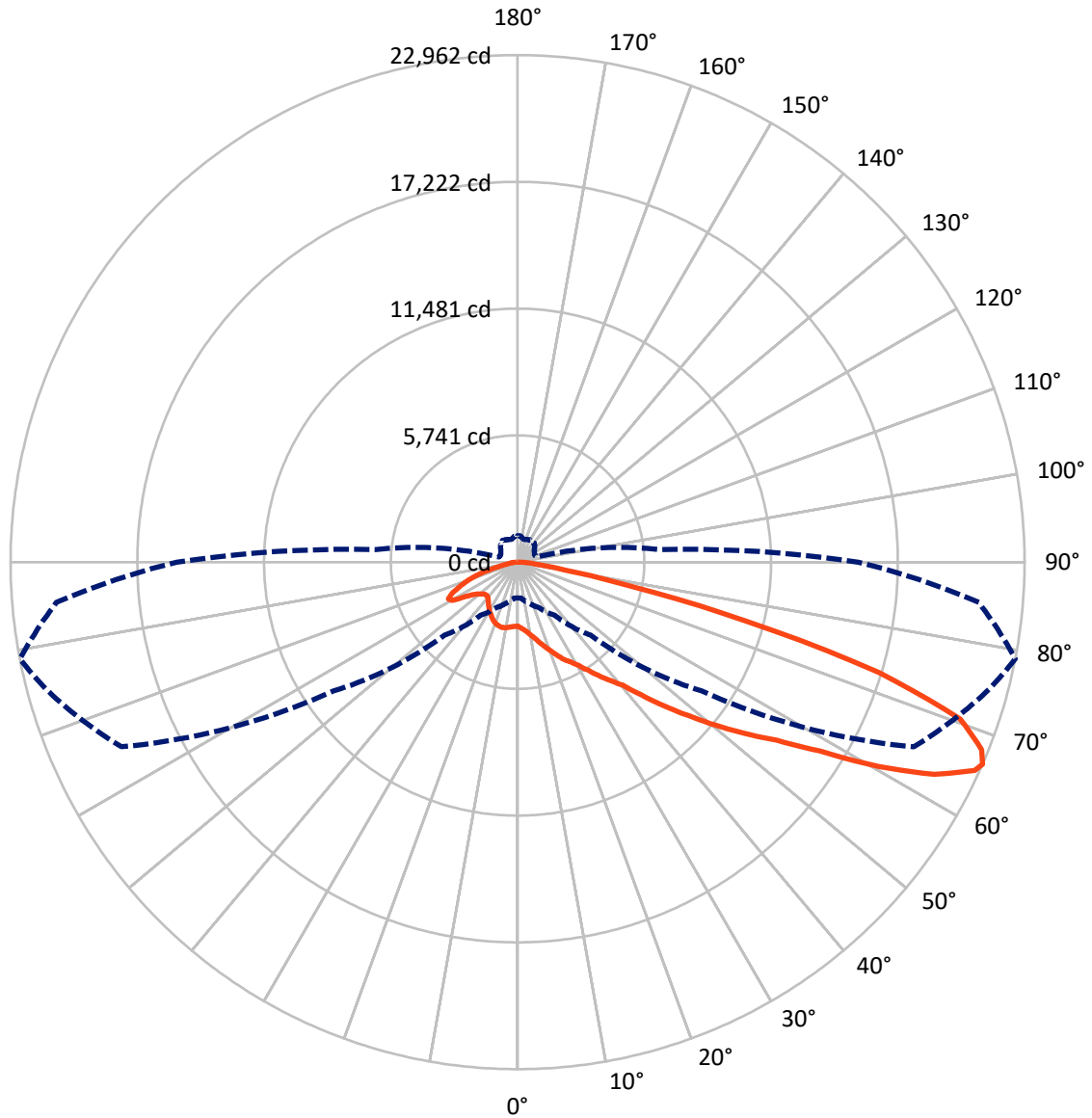
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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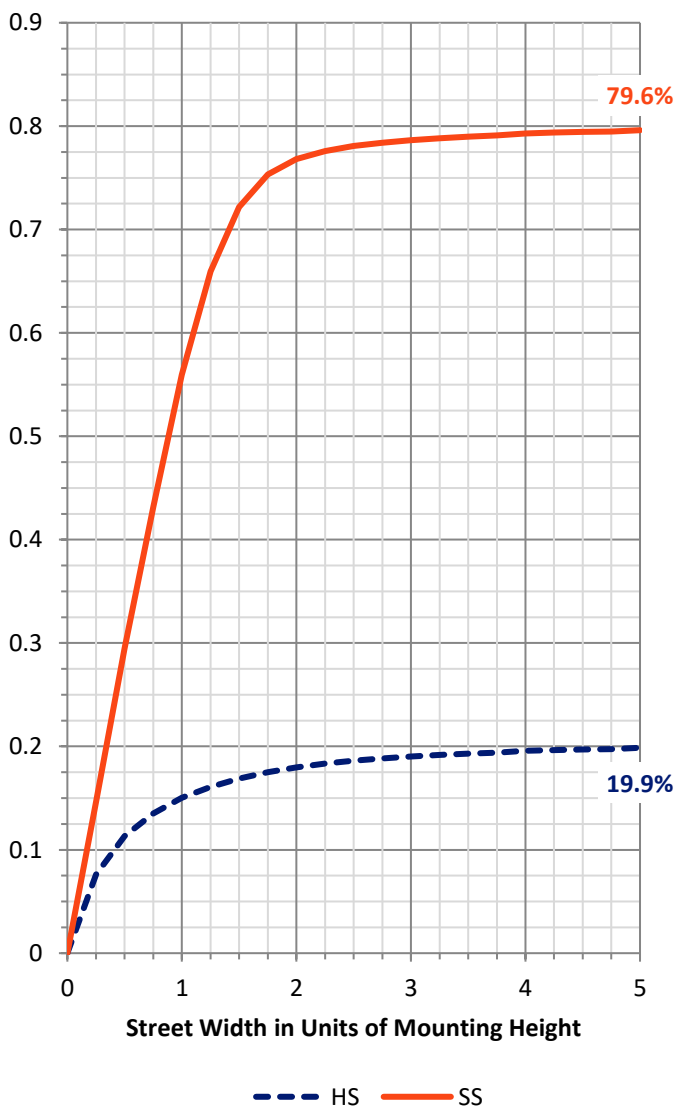
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4640.7	0.0	4640.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18340.5	0.0	18340.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	22981.2	0.0	22981.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	1.2
10°-20°	881.1	3.8
20°-30°	1512.5	6.6
30°-40°	2336.5	10.2
40°-50°	3742.4	16.3
50°-60°	5587.7	24.3
60°-70°	5741.4	25.0
70°-80°	2545.1	11.1
80°-90°	349.2	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°	22981.2	100.0
0°-180°	22981.2	100.0

Coefficient of Utilization



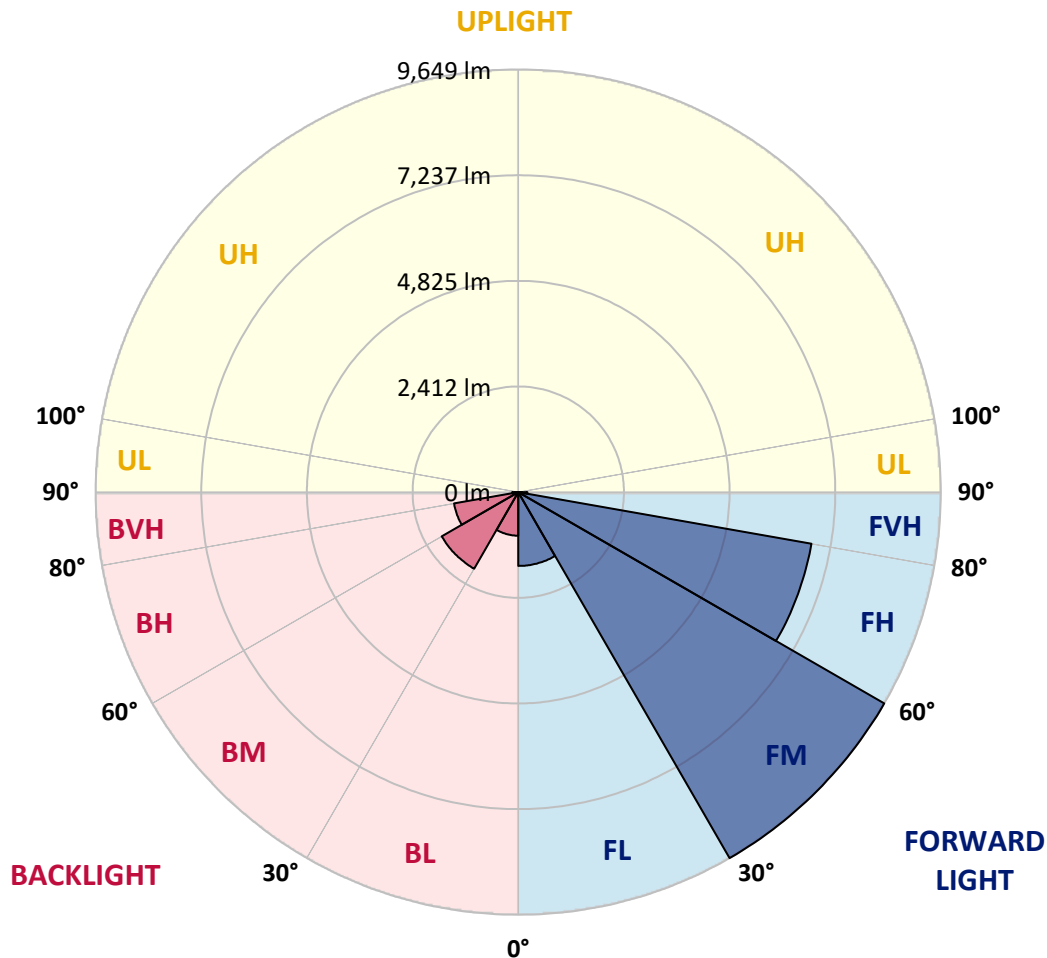
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.7	7.3			
FM (30°-60°)	9649.0	42.0			
FH (60°-80°)	6797.3	29.6			G3/7500
FVH (80°-90°)	209.4	0.9			G2/225
BL (0°-30°)	994.3	4.3	B2/1000		
BM (30°-60°)	2017.6	8.8	B2/2500		
BH (60°-80°)	1489.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	139.8	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°	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9
2.5°	3086.4	3088.9	3088.9	3078.8	3081.4	3088.9	3061.1	3000.5	3000.5	2990.4	2972.7
5°	3276.0	3263.4	3245.7	3248.2	3238.1	3238.1	3207.8	3149.6	3099.1	3078.8	3025.8
7.5°	3301.3	3313.9	3311.4	3341.7	3356.9	3356.9	3372.1	3324.0	3248.2	3200.2	3147.1
10°	3351.8	3319.0	3316.5	3387.2	3410.0	3463.1	3523.7	3498.5	3435.3	3367.0	3296.2
12.5°	3382.2	3402.4	3402.4	3437.8	3490.9	3569.2	3675.4	3723.4	3624.8	3554.1	3445.4
15°	3427.7	3399.9	3480.8	3511.1	3612.2	3667.8	3819.5	3943.3	3877.6	3791.7	3619.8
17.5°	3447.9	3430.2	3475.7	3531.3	3703.2	3786.6	3971.1	4143.0	4087.4	4031.8	3854.9
20°	3551.5	3549.0	3569.2	3614.7	3738.6	3902.9	4132.9	4370.5	4390.8	4289.6	4049.5
22.5°	3804.3	3771.5	3771.5	3753.8	3806.8	3976.2	4287.1	4615.7	4706.7	4587.9	4269.4
25°	4036.9	4082.4	4054.6	3973.7	3953.5	4041.9	4398.3	4876.1	4997.4	4886.2	4567.7
27.5°	4335.1	4350.3	4398.3	4289.6	4150.6	4178.4	4519.7	5022.7	5273.0	5123.8	4737.1
30°	4764.9	4737.1	4727.0	4605.6	4423.6	4385.7	4658.7	5237.6	5634.4	5424.6	4936.8
32.5°	5055.6	5123.8	5121.3	4954.5	4734.5	4651.1	4830.6	5439.8	6021.2	5826.5	5305.8
35°	5631.9	5702.7	5647.1	5401.9	5144.0	4977.2	5078.3	5702.7	6463.5	6311.9	5619.3
37.5°	6367.5	6534.3	6415.5	5963.0	5599.0	5417.0	5422.1	5988.3	6916.0	6792.2	5955.5
40°	6875.6	7100.5	6936.2	6511.6	6124.8	5952.9	5884.7	6327.0	7457.0	7325.5	6481.2
42.5°	7505.0	7692.0	7606.1	7186.5	6734.0	6587.4	6450.9	6893.3	8283.5	8222.9	7156.2
45°	8192.5	8281.0	8253.2	7987.8	7484.8	7434.2	7133.4	7639.0	9256.7	9282.0	8000.4
47.5°	8832.1	8880.1	8933.2	8741.1	8427.6	8470.6	7919.5	8437.7	10202.1	10369.0	8940.8
50°	8996.4	9160.7	9284.5	9413.5	9481.7	9772.4	8786.6	9418.5	11289.1	11612.6	9987.3
52.5°	8829.5	8816.9	9193.5	9598.0	10280.5	10889.7	9967.0	10636.9	12249.6	12889.2	10945.3
55°	8071.2	8045.9	8652.6	9188.5	10520.6	11511.5	11653.1	12259.7	13409.9	14241.5	12242.0
57.5°	6744.1	6587.4	7249.7	8129.3	9999.9	11579.8	13346.7	14668.7	15194.5	16142.4	14221.3
60°	4532.3	4466.6	5101.1	6150.1	8119.2	10611.6	14360.3	17684.4	17709.6	18776.4	17292.6
62.5°	2790.7	2803.3	3210.3	3996.4	5685.0	8412.5	13923.0	20093.3	20098.4	21167.6	19820.3
65°	1825.1	1832.6	2161.3	2596.0	3551.5	5705.2	11514.0	20282.9	21759.1	22752.6	20978.1
66°	1625.4	1627.9	1911.0	2264.9	2942.3	4668.8	10169.3	19790.0	22133.3	22962.4	20962.9
67.5°	1370.1	1402.9	1630.4	1903.4	2295.2	3354.4	8068.7	18364.3	21941.1	22669.1	20487.7
70°	1071.8	1089.5	1268.9	1547.0	1721.4	1941.3	4795.2	14969.5	20083.2	21263.7	18758.7
72.5°	859.4	874.6	1011.1	1256.3	1397.9	1279.1	2611.2	10861.9	15864.4	17123.2	14754.7
75°	725.5	728.0	793.7	988.4	1150.1	960.6	1390.3	6971.6	10179.4	10765.8	9039.3
77.5°	586.4	596.6	642.1	753.3	925.2	755.8	829.1	3905.4	5111.2	5154.1	4178.4
80°	477.8	482.8	510.6	548.5	705.3	558.6	561.2	1905.9	2191.6	2141.0	1698.7
82.5°	376.6	381.7	414.6	407.0	518.2	399.4	348.8	917.6	1008.6	988.4	781.1
85°	212.3	212.3	326.1	326.1	328.6	252.8	212.3	432.3	533.4	498.0	366.5
87.5°	68.3	70.8	98.6	103.6	164.3	113.8	103.6	161.8	252.8	222.4	131.4
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°	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9	2901.9
2.5°	2962.6	2922.1	2904.4	2846.3	2831.1	2793.2	2775.5	2752.8	2745.2	2712.3	2742.6
5°	2985.3	2972.7	2901.9	2828.6	2773.0	2747.7	2709.8	2659.2	2654.2	2608.7	2603.6
7.5°	3081.4	3038.4	2914.5	2836.2	2724.9	2661.8	2578.3	2553.1	2520.2	2505.0	2537.9
10°	3230.5	3121.8	2937.3	2740.1	2603.6	2527.8	2467.1	2449.4	2451.9	2441.8	2426.7
12.5°	3336.7	3233.0	2899.4	2659.2	2482.3	2409.0	2403.9	2421.6	2449.4	2436.8	2454.5
15°	3488.3	3293.7	2871.6	2525.3	2383.7	2363.5	2360.9	2414.0	2411.5	2411.5	2409.0
17.5°	3629.9	3354.4	2770.4	2409.0	2280.1	2295.2	2312.9	2310.4	2335.7	2345.8	2363.5
20°	3809.4	3425.1	2628.9	2292.7	2201.7	2196.6	2194.1	2196.6	2221.9	2237.1	2224.4
22.5°	3966.1	3440.3	2510.1	2181.5	2108.2	2087.9	2055.1	2087.9	2075.3	2080.4	2095.5
25°	4102.6	3442.8	2340.7	2098.1	2014.6	1969.1	1943.9	1941.3	1918.6	1916.1	1916.1
27.5°	4216.3	3356.9	2191.6	1981.8	1903.4	1860.4	1857.9	1830.1	1772.0	1734.1	1739.1
30°	4304.8	3291.2	2087.9	1880.7	1804.8	1797.3	1774.5	1711.3	1635.5	1587.4	1587.4
32.5°	4461.5	3159.7	1946.4	1777.0	1739.1	1729.0	1675.9	1620.3	1549.5	1504.0	1496.4
35°	4577.8	3038.4	1852.9	1688.6	1670.9	1650.6	1605.1	1544.5	1524.3	1514.1	1521.7
37.5°	4709.3	2901.9	1739.1	1612.7	1630.4	1592.5	1539.4	1511.6	1582.4	1564.7	1572.3
40°	4919.1	2805.8	1627.9	1567.2	1584.9	1541.9	1473.7	1463.6	1552.1	1488.9	1473.7
42.5°	5303.3	2803.3	1559.6	1499.0	1511.6	1478.8	1418.1	1413.0	1448.4	1372.6	1349.8
45°	5781.0	2891.8	1509.1	1448.4	1438.3	1433.3	1413.0	1390.3	1359.9	1261.4	1236.1
47.5°	6352.3	3035.9	1499.0	1372.6	1385.2	1428.2	1402.9	1344.8	1266.4	1203.2	1190.6
50°	7044.9	3334.1	1473.7	1317.0	1339.7	1408.0	1387.8	1306.9	1236.1	1195.6	1188.1
52.5°	7810.8	3710.8	1440.8	1231.0	1281.6	1390.3	1400.4	1324.6	1220.9	1185.5	1180.5
55°	8713.3	4266.9	1402.9	1137.5	1213.3	1372.6	1400.4	1274.0	1200.7	1200.7	1195.6
57.5°	10495.4	5267.9	1324.6	1051.6	1152.7	1339.7	1359.9	1276.5	1203.2	1203.2	1193.1
60°	13109.1	6830.1	1175.4	985.8	1094.5	1294.2	1329.6	1238.6	1175.4	1190.6	1188.1
62.5°	15154.1	7305.3	1049.0	922.6	1036.4	1210.8	1289.2	1198.2	1142.6	1198.2	1203.2
65°	15591.4	6825.0	920.1	854.4	955.5	1129.9	1231.0	1140.0	1094.5	1203.2	1208.3
66°	15434.6	6450.9	874.6	834.2	920.1	1089.5	1195.6	1119.8	1069.3	1198.2	1200.7
67.5°	14737.0	5889.7	824.1	791.2	872.1	1031.3	1155.2	1092.0	1028.8	1183.0	1160.3
70°	13220.3	4994.9	738.1	715.4	803.8	935.3	1061.7	1021.2	965.6	1089.5	1049.0
72.5°	10181.9	3991.4	647.1	649.6	725.5	836.7	968.1	940.3	892.3	955.5	930.2
75°	6200.6	2550.5	563.7	568.8	631.9	743.2	879.7	859.4	801.3	836.7	824.1
77.5°	2747.7	1263.9	475.2	485.3	535.9	654.7	765.9	733.1	672.4	680.0	674.9
80°	1066.7	599.1	386.8	399.4	432.3	523.3	634.5	604.1	551.1	540.9	535.9
82.5°	513.1	333.7	298.3	303.3	316.0	417.1	546.0	508.1	437.3	391.8	391.8
85°	257.8	207.3	209.8	192.1	209.8	283.1	369.1	308.4	255.3	227.5	232.6
87.5°	103.6	103.6	103.6	88.5	93.5	134.0	171.9	116.3	106.2	63.2	63.2
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)