

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: P476777

Luminaire Tested: **IFLD-L-SA7A-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476777
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

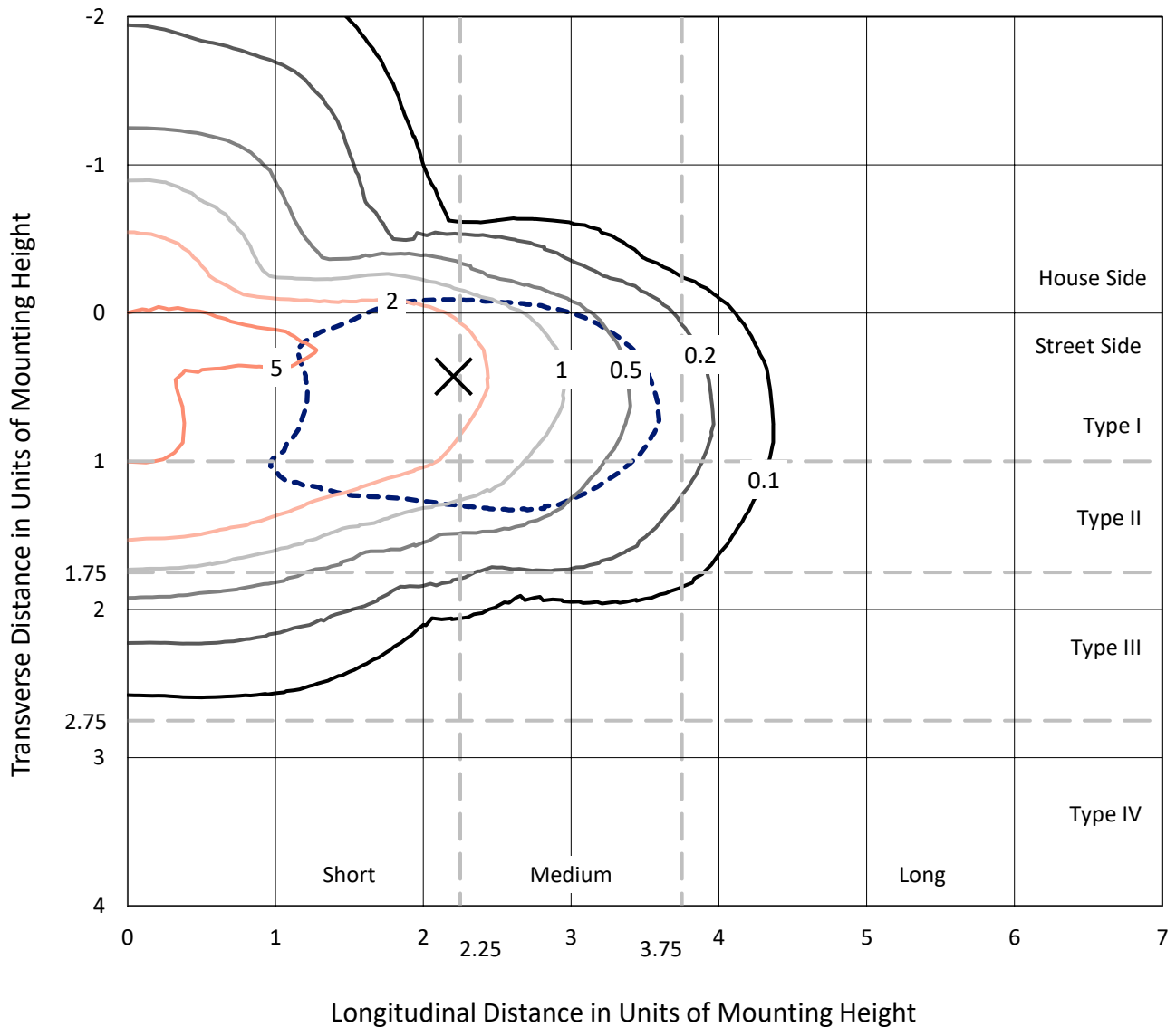
Lumens per Lamp: N/A
Luminaire Lumens: 24841.4 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

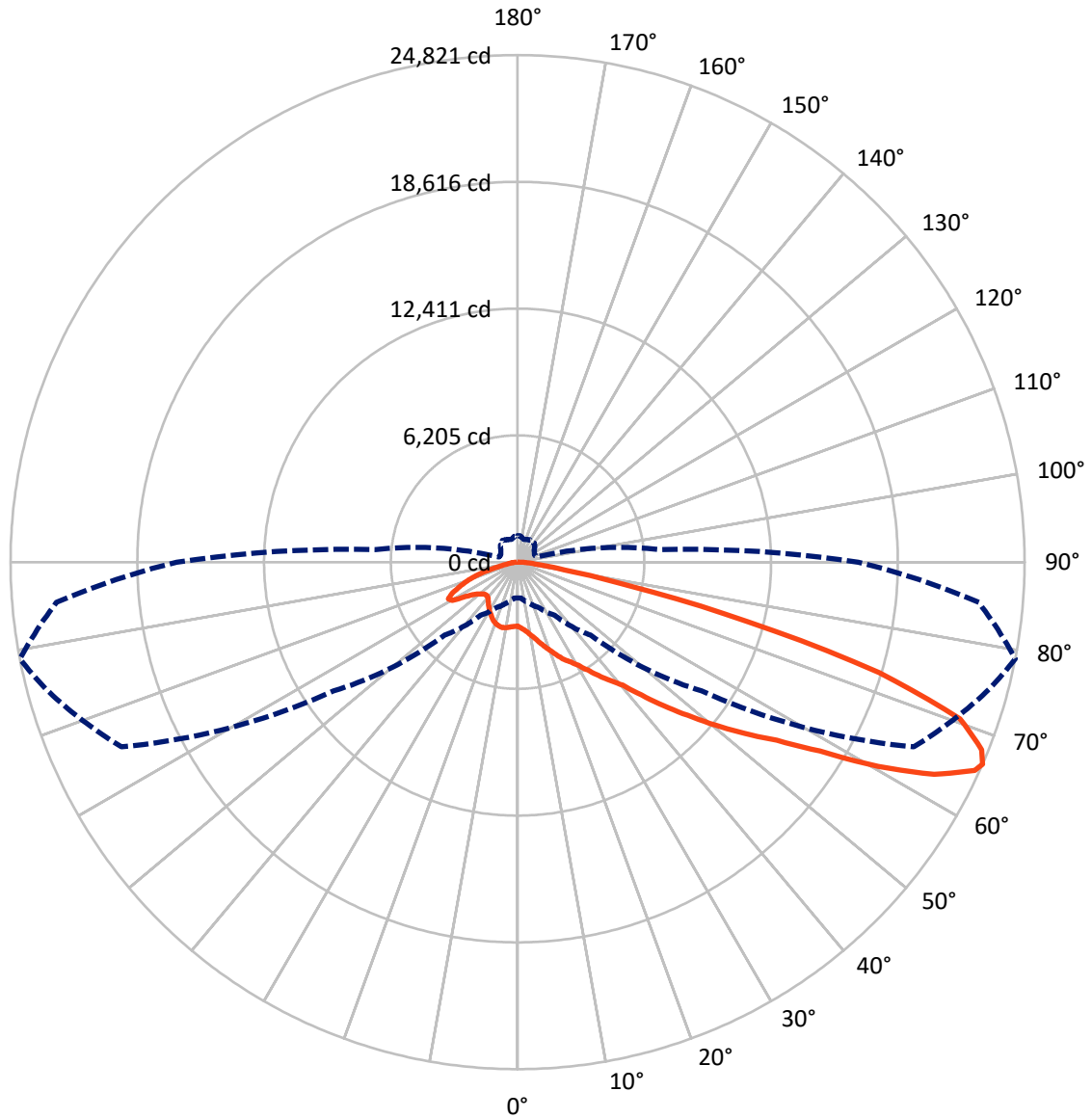
× Max cd
 - - - 1/2 Max cd



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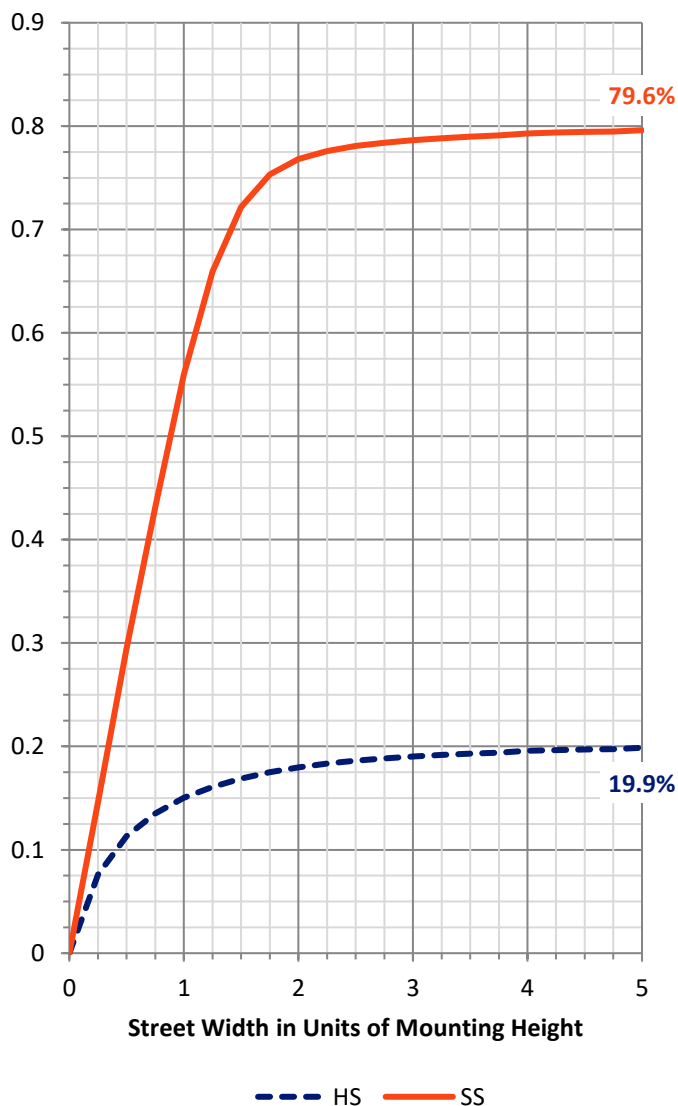
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5016.4	0.0	5016.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	19825.0	0.0	19825.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	24841.4	0.0	24841.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.4	1.2
10°-20°	952.4	3.8
20°-30°	1634.9	6.6
30°-40°	2525.6	10.2
40°-50°	4045.4	16.3
50°-60°	6040.0	24.3
60°-70°	6206.1	25.0
70°-80°	2751.1	11.1
80°-90°	377.5	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°	24841.4	100.0
0°-180°	24841.4	100.0

Coefficient of Utilization



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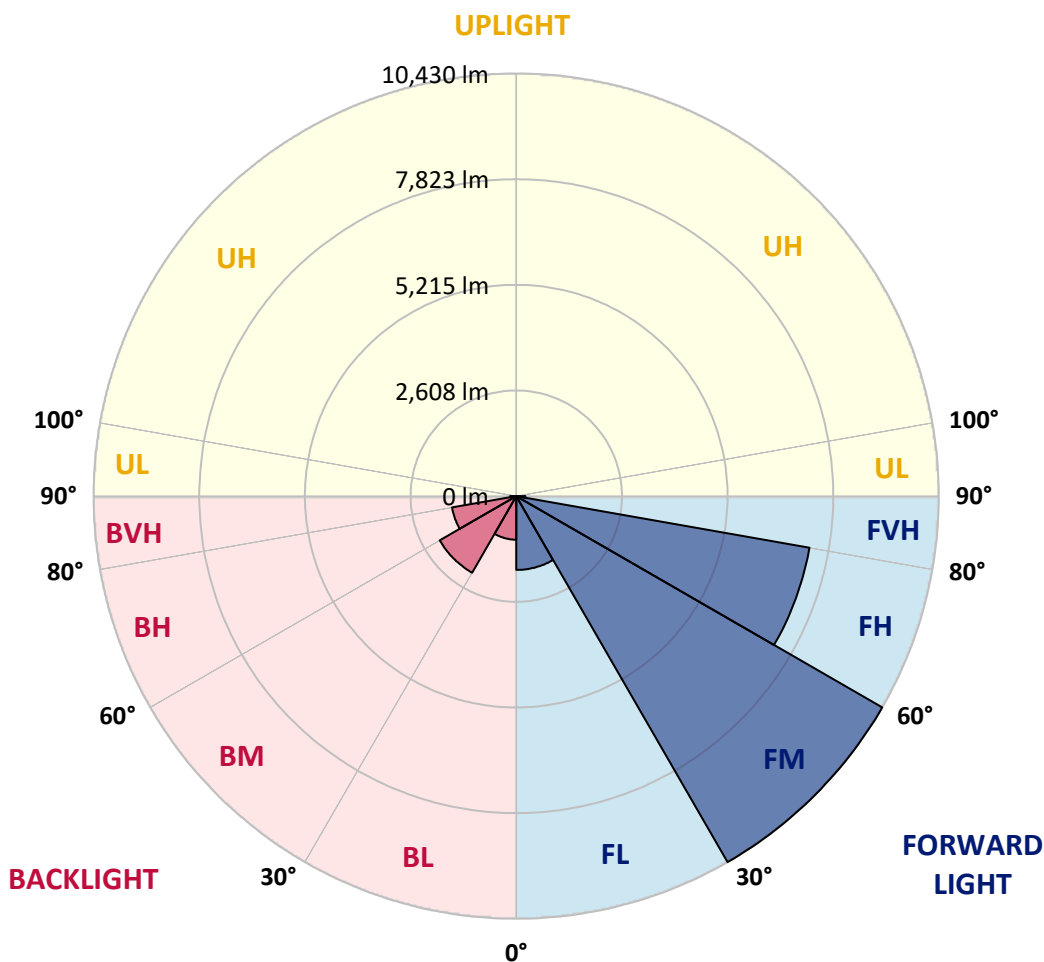
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1821.0	7.3			
FM (30°-60°)	10430.1	42.0			
FH (60°-80°)	7347.5	29.6			G3/7500
FVH (80°-90°)	226.4	0.9			G3/500
BL (0°-30°)	1074.7	4.3	B3/2500		
BM (30°-60°)	2180.9	8.8	B2/2500		
BH (60°-80°)	1609.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	151.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8
2.5°	3336.2	3339.0	3339.0	3328.0	3330.8	3339.0	3308.9	3243.3	3243.3	3232.4	3213.3
5°	3541.2	3527.5	3508.4	3511.1	3500.2	3500.2	3467.4	3404.6	3349.9	3328.0	3270.7
7.5°	3568.5	3582.2	3579.4	3612.2	3628.6	3628.6	3645.0	3593.1	3511.1	3459.2	3401.8
10°	3623.1	3587.6	3584.9	3661.4	3686.0	3743.4	3808.9	3781.6	3713.3	3639.5	3563.0
12.5°	3655.9	3677.8	3677.8	3716.0	3773.4	3858.1	3972.9	4024.8	3918.2	3841.7	3724.2
15°	3705.1	3675.1	3762.5	3795.3	3904.6	3964.7	4128.6	4262.5	4191.5	4098.6	3912.8
17.5°	3727.0	3707.8	3757.0	3817.1	4002.9	4093.1	4292.6	4478.4	4418.3	4358.2	4166.9
20°	3839.0	3836.3	3858.1	3907.3	4041.2	4218.8	4467.4	4724.3	4746.2	4636.9	4377.3
22.5°	4112.2	4076.7	4076.7	4057.6	4115.0	4298.0	4634.1	4989.3	5087.7	4959.3	4615.0
25°	4363.6	4412.8	4382.7	4295.3	4273.4	4369.1	4754.3	5270.8	5401.9	5281.7	4937.4
27.5°	4686.0	4702.4	4754.3	4636.9	4486.6	4516.6	4885.5	5429.2	5699.8	5538.5	5120.5
30°	5150.5	5120.5	5109.6	4978.4	4781.7	4740.7	5035.8	5661.5	6090.5	5863.7	5336.3
32.5°	5464.8	5538.5	5535.8	5355.5	5117.8	5027.6	5221.6	5880.1	6508.5	6298.1	5735.3
35°	6087.8	6164.3	6104.1	5839.1	5560.4	5380.1	5489.4	6164.3	6986.7	6822.8	6074.1
37.5°	6882.9	7063.2	6934.8	6445.7	6052.2	5855.5	5861.0	6473.0	7475.8	7341.9	6437.5
40°	7432.1	7675.3	7497.7	7038.6	6620.6	6434.8	6361.0	6839.2	8060.5	7918.4	7005.8
42.5°	8112.4	8314.6	8221.7	7768.2	7279.1	7120.6	6973.0	7451.2	8954.0	8888.4	7735.4
45°	8855.7	8951.3	8921.2	8634.3	8090.6	8035.9	7710.8	8257.3	10006.0	10033.3	8648.0
47.5°	9547.0	9598.9	9656.2	9448.6	9109.8	9156.2	8560.6	9120.7	11027.9	11208.2	9664.4
50°	9724.6	9902.2	10036.0	10175.4	10249.2	10563.4	9497.8	10180.9	12202.8	12552.6	10795.6
52.5°	9544.2	9530.6	9937.7	10374.9	11112.6	11771.1	10773.8	11497.9	13241.1	13932.4	11831.2
55°	8724.5	8697.2	9353.0	9932.2	11372.2	12443.3	12596.3	13252.1	14495.3	15394.3	13232.9
57.5°	7290.0	7120.6	7836.5	8787.3	10809.3	12517.1	14427.0	15856.0	16424.4	17449.0	15372.4
60°	4899.2	4828.1	5514.0	6647.9	8776.4	11470.5	15522.7	19115.8	19143.1	20296.1	18692.2
62.5°	3016.6	3030.2	3470.1	4319.9	6145.1	9093.4	15050.0	21719.7	21725.2	22881.0	21424.6
65°	1972.8	1981.0	2336.2	2806.2	3839.0	6167.0	12446.0	21924.7	23520.4	24594.2	22676.1
66°	1756.9	1759.7	2065.7	2448.2	3180.5	5046.7	10992.4	21391.8	23924.8	24821.0	22659.7
67.5°	1481.0	1516.5	1762.4	2057.5	2481.0	3625.9	8721.8	19850.8	23717.1	24504.0	22146.0
70°	1158.5	1177.7	1371.7	1672.2	1860.8	2098.5	5183.3	16181.2	21708.8	22984.8	20277.0
72.5°	929.0	945.4	1093.0	1358.0	1511.0	1382.6	2822.6	11741.1	17148.4	18509.2	15948.9
75°	784.2	786.9	858.0	1068.4	1243.2	1038.3	1502.8	7535.9	11003.3	11637.2	9771.0
77.5°	633.9	644.8	694.0	814.3	1000.1	817.0	896.2	4221.5	5524.9	5571.3	4516.6
80°	516.4	521.9	551.9	592.9	762.3	603.9	606.6	2060.2	2369.0	2314.3	1836.2
82.5°	407.1	412.6	448.1	439.9	560.1	431.7	377.1	991.9	1090.2	1068.4	844.3
85°	229.5	229.5	352.5	352.5	355.2	273.2	229.5	467.2	576.5	538.3	396.2
87.5°	73.8	76.5	106.6	112.0	177.6	123.0	112.0	174.9	273.2	240.4	142.1
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°	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8	3136.8
2.5°	3202.4	3158.6	3139.5	3076.7	3060.3	3019.3	3000.2	2975.6	2967.4	2931.8	2964.6
5°	3226.9	3213.3	3136.8	3057.5	2997.4	2970.1	2929.1	2874.5	2869.0	2819.8	2814.4
7.5°	3330.8	3284.3	3150.4	3065.7	2945.5	2877.2	2787.0	2759.7	2724.2	2707.8	2743.3
10°	3492.0	3374.5	3175.0	2961.9	2814.4	2732.4	2666.8	2647.7	2650.4	2639.5	2623.1
12.5°	3606.7	3494.7	3134.0	2874.5	2683.2	2604.0	2598.5	2617.6	2647.7	2634.0	2653.1
15°	3770.7	3560.3	3104.0	2729.7	2576.6	2554.8	2552.0	2609.4	2606.7	2606.7	2604.0
17.5°	3923.7	3625.9	2994.7	2604.0	2464.6	2481.0	2500.1	2497.4	2524.7	2535.7	2554.8
20°	4117.7	3702.4	2841.7	2478.3	2379.9	2374.4	2371.7	2374.4	2401.8	2418.2	2404.5
22.5°	4287.1	3718.8	2713.3	2358.0	2278.8	2256.9	2221.4	2256.9	2243.3	2248.8	2265.1
25°	4434.7	3721.5	2530.2	2267.9	2177.7	2128.5	2101.2	2098.5	2073.9	2071.1	2071.1
27.5°	4557.6	3628.6	2369.0	2142.2	2057.5	2011.0	2008.3	1978.2	1915.4	1874.4	1879.9
30°	4653.3	3557.6	2256.9	2032.9	1950.9	1942.7	1918.1	1849.8	1767.9	1715.9	1715.9
32.5°	4822.7	3415.5	2103.9	1920.9	1879.9	1869.0	1811.6	1751.5	1675.0	1625.8	1617.6
35°	4948.3	3284.3	2002.8	1825.2	1806.1	1784.2	1735.1	1669.5	1647.6	1636.7	1644.9
37.5°	5090.4	3136.8	1879.9	1743.3	1762.4	1721.4	1664.0	1634.0	1710.5	1691.3	1699.5
40°	5317.2	3032.9	1759.7	1694.1	1713.2	1666.8	1593.0	1582.1	1677.7	1609.4	1593.0
42.5°	5732.5	3030.2	1685.9	1620.3	1634.0	1598.4	1532.9	1527.4	1565.7	1483.7	1459.1
45°	6249.0	3125.8	1631.2	1565.7	1554.7	1549.3	1527.4	1502.8	1470.0	1363.5	1336.1
47.5°	6866.5	3281.6	1620.3	1483.7	1497.3	1543.8	1516.5	1453.6	1368.9	1300.6	1287.0
50°	7615.2	3604.0	1593.0	1423.6	1448.2	1521.9	1500.1	1412.6	1336.1	1292.4	1284.2
52.5°	8443.1	4011.1	1557.5	1330.7	1385.3	1502.8	1513.7	1431.8	1319.7	1281.5	1276.0
55°	9418.5	4612.3	1516.5	1229.6	1311.5	1483.7	1513.7	1377.1	1297.9	1297.9	1292.4
57.5°	11344.9	5694.3	1431.8	1136.7	1246.0	1448.2	1470.0	1379.9	1300.6	1300.6	1289.7
60°	14170.1	7382.9	1270.6	1065.6	1183.1	1399.0	1437.2	1338.9	1270.6	1287.0	1284.2
62.5°	16380.6	7896.6	1133.9	997.3	1120.3	1308.8	1393.5	1295.2	1235.0	1295.2	1300.6
65°	16853.3	7377.4	994.6	923.5	1032.8	1221.4	1330.7	1232.3	1183.1	1300.6	1306.1
66°	16683.9	6973.0	945.4	901.7	994.6	1177.7	1292.4	1210.4	1155.8	1295.2	1297.9
67.5°	15929.8	6366.5	890.8	855.2	942.7	1114.8	1248.7	1180.4	1112.1	1278.8	1254.2
70°	14290.4	5399.2	797.9	773.3	868.9	1011.0	1147.6	1103.9	1043.8	1177.7	1133.9
72.5°	11006.0	4314.4	699.5	702.2	784.2	904.4	1046.5	1016.4	964.5	1032.8	1005.5
75°	6702.5	2757.0	609.3	614.8	683.1	803.3	950.9	929.0	866.2	904.4	890.8
77.5°	2970.1	1366.2	513.7	524.6	579.3	707.7	827.9	792.4	726.8	735.0	729.5
80°	1153.1	647.6	418.1	431.7	467.2	565.6	685.8	653.0	595.7	584.7	579.3
82.5°	554.7	360.7	322.4	327.9	341.5	450.8	590.2	549.2	472.7	423.5	423.5
85°	278.7	224.1	226.8	207.7	226.8	306.0	398.9	333.4	276.0	245.9	251.4
87.5°	112.0	112.0	112.0	95.6	101.1	144.8	185.8	125.7	114.8	68.3	68.3
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)