

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: P476560

Luminaire Tested: **IFLD-S-SA3D-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476560
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

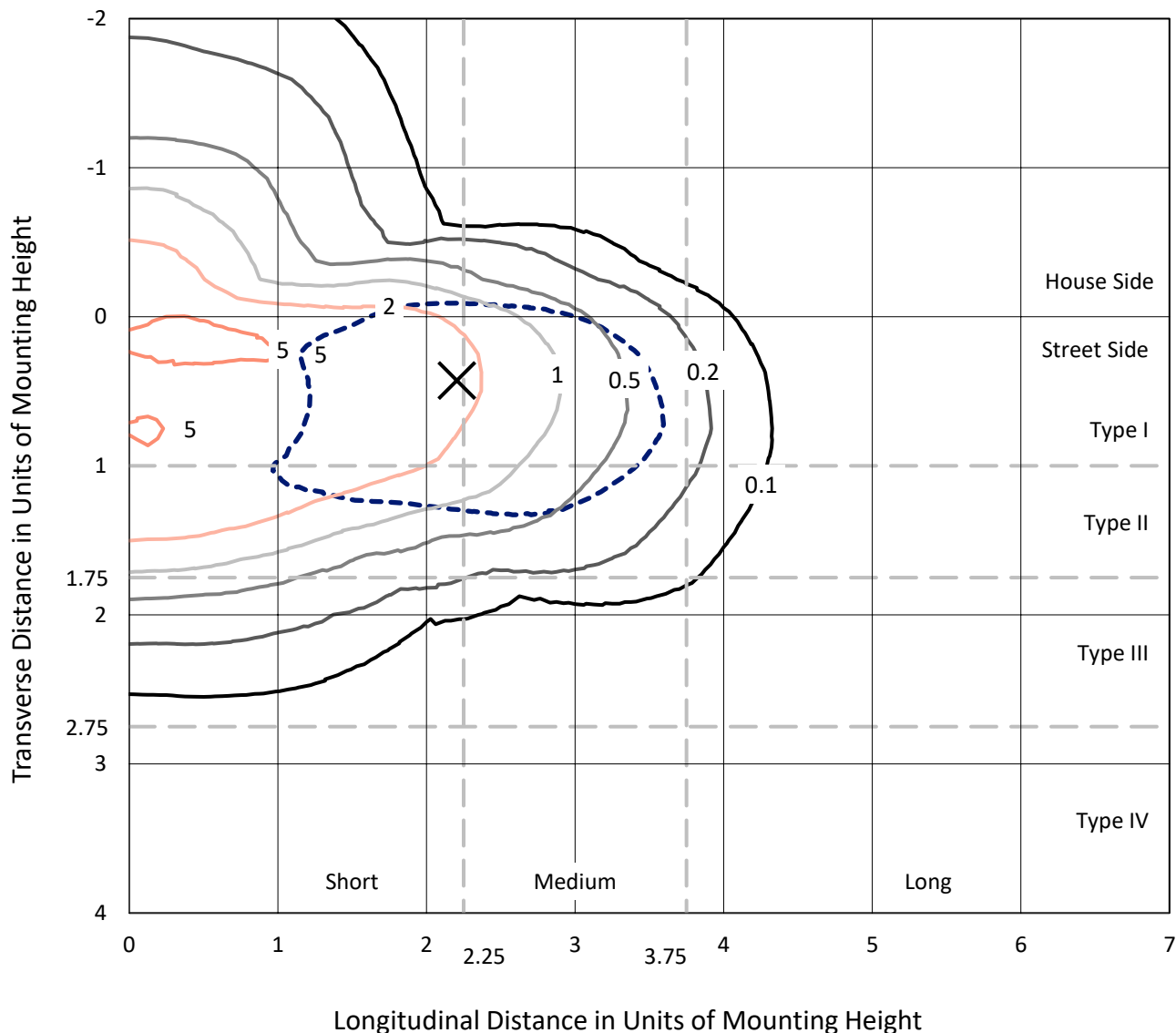
Lumens per Lamp: N/A
Luminaire Lumens: 22960 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1
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

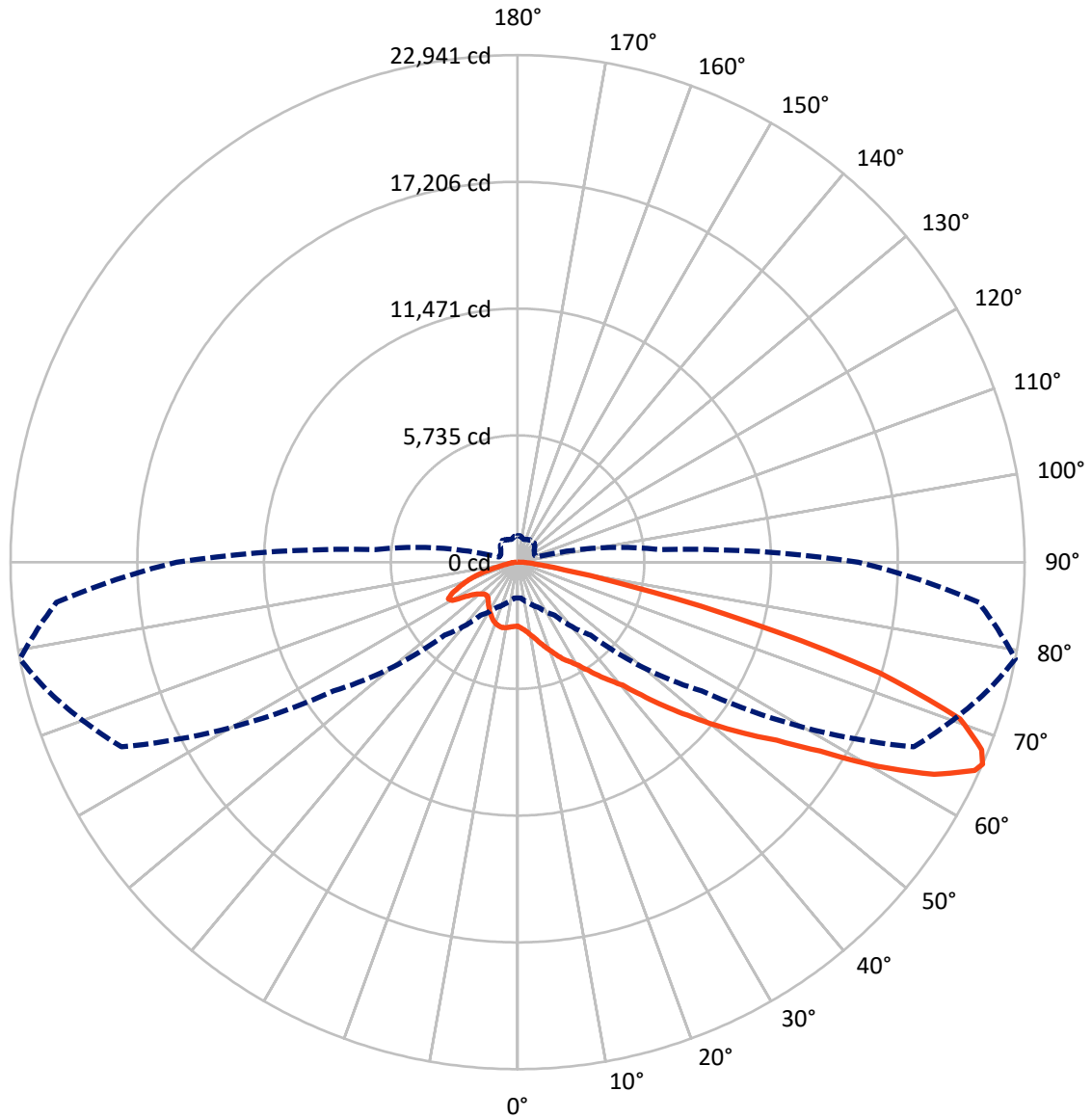
× Max cd
 - - - 1/2 Max cd



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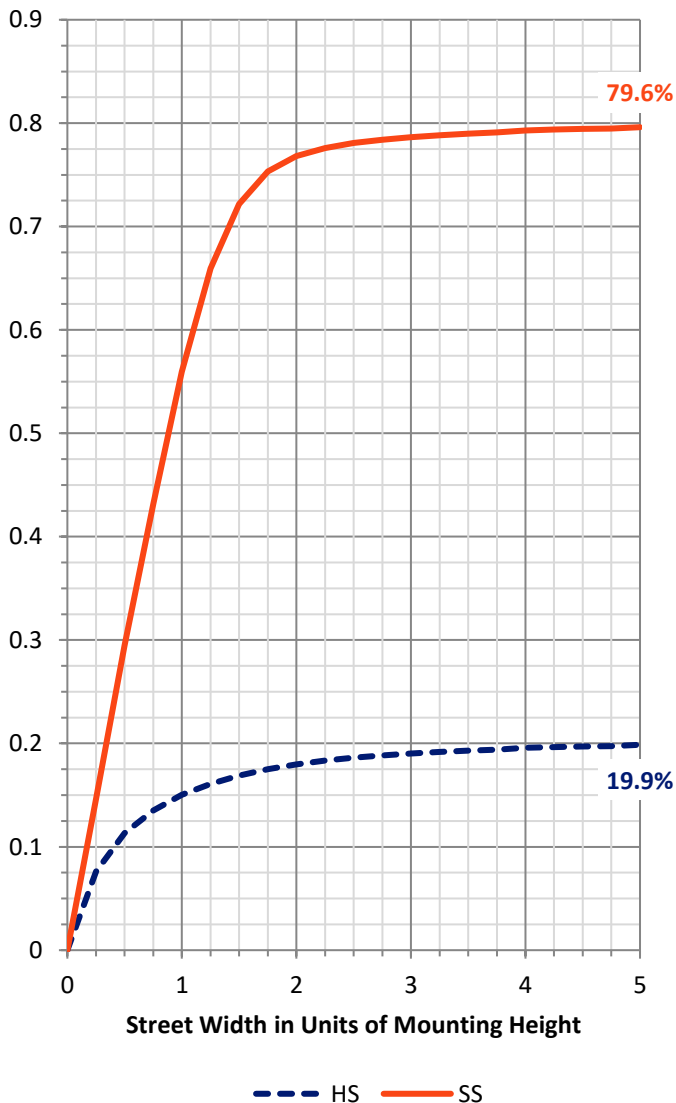
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4636.4	0.0	4636.4
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	18323.5	0.0	18323.5
	% Fixture	79.8	0.0	79.8
Total	Lumens	22960.0	0.0	22960.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.1	1.2
10°-20°	880.3	3.8
20°-30°	1511.1	6.6
30°-40°	2334.3	10.2
40°-50°	3739.0	16.3
50°-60°	5582.5	24.3
60°-70°	5736.1	25.0
70°-80°	2542.7	11.1
80°-90°	348.9	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°	22960.0	100.0
0°-180°	22960.0	100.0



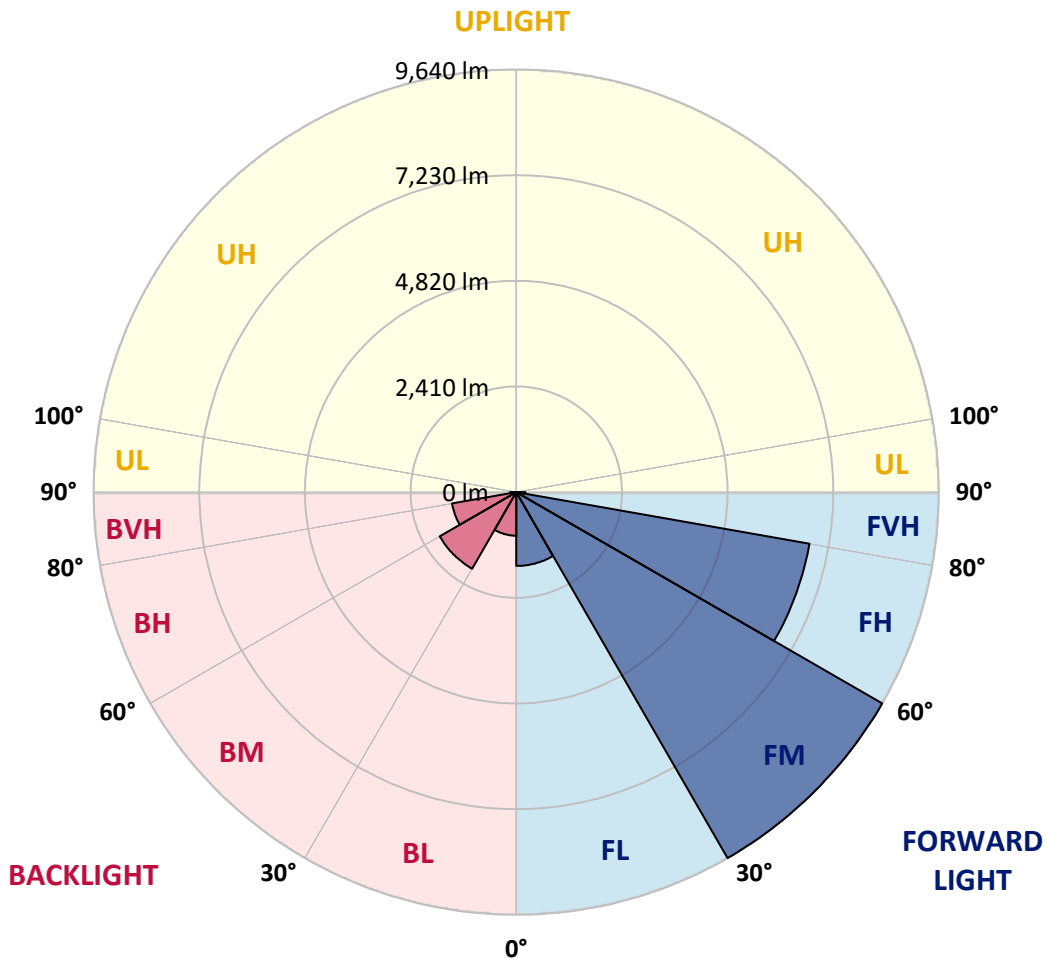
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.1	7.3			
FM (30°-60°)	9640.1	42.0			
FH (60°-80°)	6791.0	29.6			G3/7500
FVH (80°-90°)	209.2	0.9			G2/225
BL (0°-30°)	993.4	4.3	B2/1000		
BM (30°-60°)	2015.7	8.8	B2/2500		
BH (60°-80°)	1487.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	139.6	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°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2.5°	3083.6	3086.1	3086.1	3076.0	3078.5	3086.1	3058.3	2997.7	2997.7	2987.6	2969.9
5°	3273.0	3260.3	3242.7	3245.2	3235.1	3235.1	3204.8	3146.7	3096.2	3076.0	3023.0
7.5°	3298.2	3310.9	3308.3	3338.6	3353.8	3353.8	3368.9	3321.0	3245.2	3197.2	3144.2
10°	3348.7	3315.9	3313.4	3384.1	3406.8	3459.9	3520.5	3495.2	3432.1	3363.9	3293.2
12.5°	3379.0	3399.2	3399.2	3434.6	3487.6	3565.9	3672.0	3720.0	3621.5	3550.8	3442.2
15°	3424.5	3396.7	3477.5	3507.8	3608.9	3664.4	3815.9	3939.7	3874.0	3788.2	3616.4
17.5°	3444.7	3427.0	3472.5	3528.0	3699.8	3783.1	3967.5	4139.2	4083.6	4028.1	3851.3
20°	3548.2	3545.7	3565.9	3611.4	3735.1	3899.3	4129.1	4366.5	4386.7	4285.7	4045.8
22.5°	3800.8	3768.0	3768.0	3750.3	3803.3	3972.5	4283.1	4611.5	4702.4	4583.7	4265.5
25°	4033.1	4078.6	4050.8	3970.0	3949.8	4038.2	4394.3	4871.6	4992.8	4881.7	4563.5
27.5°	4331.1	4346.3	4394.3	4285.7	4146.8	4174.6	4515.5	5018.1	5268.1	5119.1	4732.7
30°	4760.5	4732.7	4722.6	4601.4	4419.5	4381.6	4654.4	5232.7	5629.2	5419.6	4932.2
32.5°	5050.9	5119.1	5116.5	4949.9	4730.2	4646.8	4826.1	5434.7	6015.6	5821.1	5300.9
35°	5626.7	5697.4	5641.8	5396.9	5139.3	4972.6	5073.6	5697.4	6457.6	6306.0	5614.1
37.5°	6361.6	6528.3	6409.6	5957.5	5593.9	5412.0	5417.1	5982.8	6909.6	6785.9	5949.9
40°	6869.2	7094.0	6929.8	6505.5	6119.1	5947.4	5879.2	6321.2	7450.1	7318.7	6475.2
42.5°	7498.0	7684.9	7599.1	7179.8	6727.8	6581.3	6444.9	6886.9	8275.9	8215.3	7149.5
45°	8185.0	8273.3	8245.6	7980.4	7477.8	7427.3	7126.8	7631.9	9248.2	9273.4	7993.0
47.5°	8823.9	8871.9	8924.9	8733.0	8419.8	8462.8	7912.2	8429.9	10192.7	10359.4	8932.5
50°	8988.0	9152.2	9275.9	9404.7	9472.9	9763.4	8778.4	9409.8	11278.6	11601.9	9978.0
52.5°	8821.4	8808.7	9185.0	9589.1	10271.0	10879.6	9957.8	10627.1	12238.3	12877.2	10935.2
55°	8063.7	8038.5	8644.6	9180.0	10510.9	11500.9	11642.3	12248.4	13397.5	14228.3	12230.7
57.5°	6737.9	6581.3	7243.0	8121.8	9990.6	11569.0	13334.3	14655.1	15180.4	16127.5	14208.1
60°	4528.1	4462.5	5096.3	6144.4	8111.7	10601.8	14347.0	17668.0	17693.2	18759.0	17276.5
62.5°	2788.1	2800.7	3207.3	3992.7	5679.7	8404.7	13910.1	20074.7	20079.8	21148.0	19802.0
65°	1823.4	1830.9	2159.3	2593.6	3548.2	5699.9	11503.4	20264.1	21739.0	22731.5	20958.6
66°	1623.9	1626.4	1909.2	2262.8	2939.6	4664.5	10159.8	19771.7	22112.8	22941.1	20943.5
67.5°	1368.8	1401.6	1628.9	1901.7	2293.1	3351.3	8061.2	18347.3	21920.8	22648.2	20468.7
70°	1070.8	1088.5	1267.8	1545.6	1719.8	1939.5	4790.8	14955.7	20064.6	21244.0	18741.3
72.5°	858.6	873.8	1010.2	1255.1	1396.6	1277.9	2608.8	10851.8	15849.7	17107.3	14741.0
75°	724.8	727.3	793.0	987.4	1149.1	959.7	1389.0	6965.2	10170.0	10755.9	9031.0
77.5°	585.9	596.0	641.5	752.6	924.3	755.1	828.3	3901.8	5106.4	5149.4	4174.6
80°	477.3	482.4	510.1	548.0	704.6	558.1	560.6	1904.2	2189.6	2139.0	1697.1
82.5°	376.3	381.3	414.2	406.6	517.7	399.0	348.5	916.7	1007.7	987.4	780.4
85°	212.1	212.1	325.8	325.8	328.3	252.5	212.1	431.9	532.9	497.5	366.2
87.5°	68.2	70.7	98.5	103.5	164.2	113.6	103.5	161.6	252.5	222.2	131.3
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°	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2	2899.2
2.5°	2959.8	2919.4	2901.7	2843.6	2828.5	2790.6	2772.9	2750.2	2742.6	2709.8	2740.1
5°	2982.5	2969.9	2899.2	2826.0	2770.4	2745.2	2707.3	2656.8	2651.7	2606.3	2601.2
7.5°	3078.5	3035.6	2911.8	2833.5	2722.4	2659.3	2575.9	2550.7	2517.9	2502.7	2535.5
10°	3227.5	3118.9	2934.6	2737.6	2601.2	2525.4	2464.8	2447.2	2449.7	2439.6	2424.4
12.5°	3333.6	3230.0	2896.7	2656.8	2480.0	2406.7	2401.7	2419.4	2447.2	2434.5	2452.2
15°	3485.1	3290.6	2868.9	2522.9	2381.5	2361.3	2358.8	2411.8	2409.3	2409.3	2406.7
17.5°	3626.5	3351.3	2767.9	2406.7	2277.9	2293.1	2310.8	2308.3	2333.5	2343.6	2361.3
20°	3805.8	3422.0	2626.5	2290.6	2199.7	2194.6	2192.1	2194.6	2219.9	2235.0	2222.4
22.5°	3962.4	3437.1	2507.8	2179.5	2106.2	2086.0	2053.2	2086.0	2073.4	2078.4	2093.6
25°	4098.8	3439.7	2338.6	2096.1	2012.8	1967.3	1942.1	1939.5	1916.8	1914.3	1914.3
27.5°	4212.4	3353.8	2189.6	1979.9	1901.7	1858.7	1856.2	1828.4	1770.3	1732.5	1737.5
30°	4300.8	3288.1	2086.0	1878.9	1803.2	1795.6	1772.9	1709.7	1634.0	1586.0	1586.0
32.5°	4457.4	3156.8	1944.6	1775.4	1737.5	1727.4	1674.4	1618.8	1548.1	1502.6	1495.1
35°	4573.6	3035.6	1851.1	1687.0	1669.3	1649.1	1603.7	1543.0	1522.8	1512.7	1520.3
37.5°	4704.9	2899.2	1737.5	1611.2	1628.9	1591.0	1538.0	1510.2	1580.9	1563.2	1570.8
40°	4914.5	2803.2	1626.4	1565.8	1583.5	1540.5	1472.3	1462.2	1550.6	1487.5	1472.3
42.5°	5298.4	2800.7	1558.2	1497.6	1510.2	1477.4	1416.8	1411.7	1447.1	1371.3	1348.6
45°	5775.7	2889.1	1507.7	1447.1	1437.0	1431.9	1411.7	1389.0	1358.7	1260.2	1234.9
47.5°	6346.4	3033.1	1497.6	1371.3	1383.9	1426.9	1401.6	1343.5	1265.2	1202.1	1189.5
50°	7038.4	3331.1	1472.3	1315.8	1338.5	1406.7	1386.5	1305.7	1234.9	1194.5	1187.0
52.5°	7803.6	3707.3	1439.5	1229.9	1280.4	1389.0	1399.1	1323.3	1219.8	1184.4	1179.4
55°	8705.2	4262.9	1401.6	1136.4	1212.2	1371.3	1399.1	1272.8	1199.6	1199.6	1194.5
57.5°	10485.6	5263.0	1323.3	1050.6	1151.6	1338.5	1358.7	1275.3	1202.1	1202.1	1192.0
60°	13096.9	6823.7	1174.3	984.9	1093.5	1293.0	1328.4	1237.5	1174.3	1189.5	1187.0
62.5°	15140.0	7298.5	1048.1	921.8	1035.4	1209.7	1288.0	1197.1	1141.5	1197.1	1202.1
65°	15576.9	6818.7	919.3	853.6	954.6	1128.9	1229.9	1139.0	1093.5	1202.1	1207.2
66°	15420.3	6444.9	873.8	833.4	919.3	1088.5	1194.5	1118.8	1068.3	1197.1	1199.6
67.5°	14723.3	5884.3	823.3	790.5	871.3	1030.4	1154.1	1091.0	1027.9	1181.9	1159.2
70°	13208.1	4990.3	737.4	714.7	803.1	934.4	1060.7	1020.3	964.7	1088.5	1048.1
72.5°	10172.5	3987.7	646.5	649.0	724.8	835.9	967.2	939.5	891.5	954.6	929.4
75°	6194.9	2548.2	563.2	568.2	631.4	742.5	878.9	858.6	800.6	835.9	823.3
77.5°	2745.2	1262.7	474.8	484.9	535.4	654.1	765.2	732.4	671.8	679.3	674.3
80°	1065.7	598.5	386.4	399.0	431.9	522.8	633.9	603.6	550.5	540.4	535.4
82.5°	512.7	333.4	298.0	303.1	315.7	416.7	545.5	507.6	436.9	391.4	391.4
85°	257.6	207.1	209.6	191.9	209.6	282.8	368.7	308.1	255.1	227.3	232.3
87.5°	103.5	103.5	103.5	88.4	93.4	133.8	171.7	116.2	106.1	63.1	63.1
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)