

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: P478407

Luminaire Tested: **IFLD-S-SA6C-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478407
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

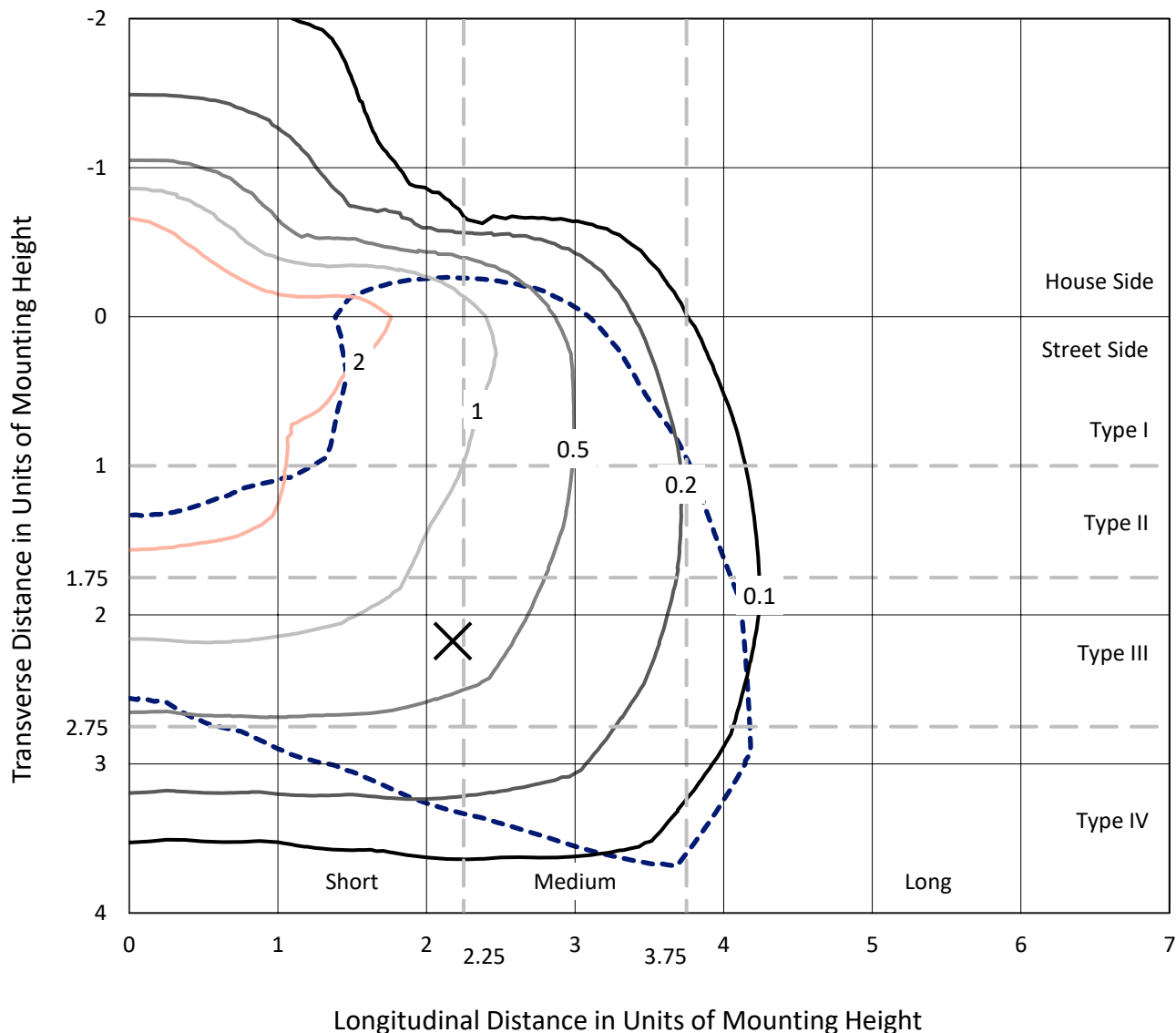
Lumens per Lamp: N/A
Luminaire Lumens: 30937 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

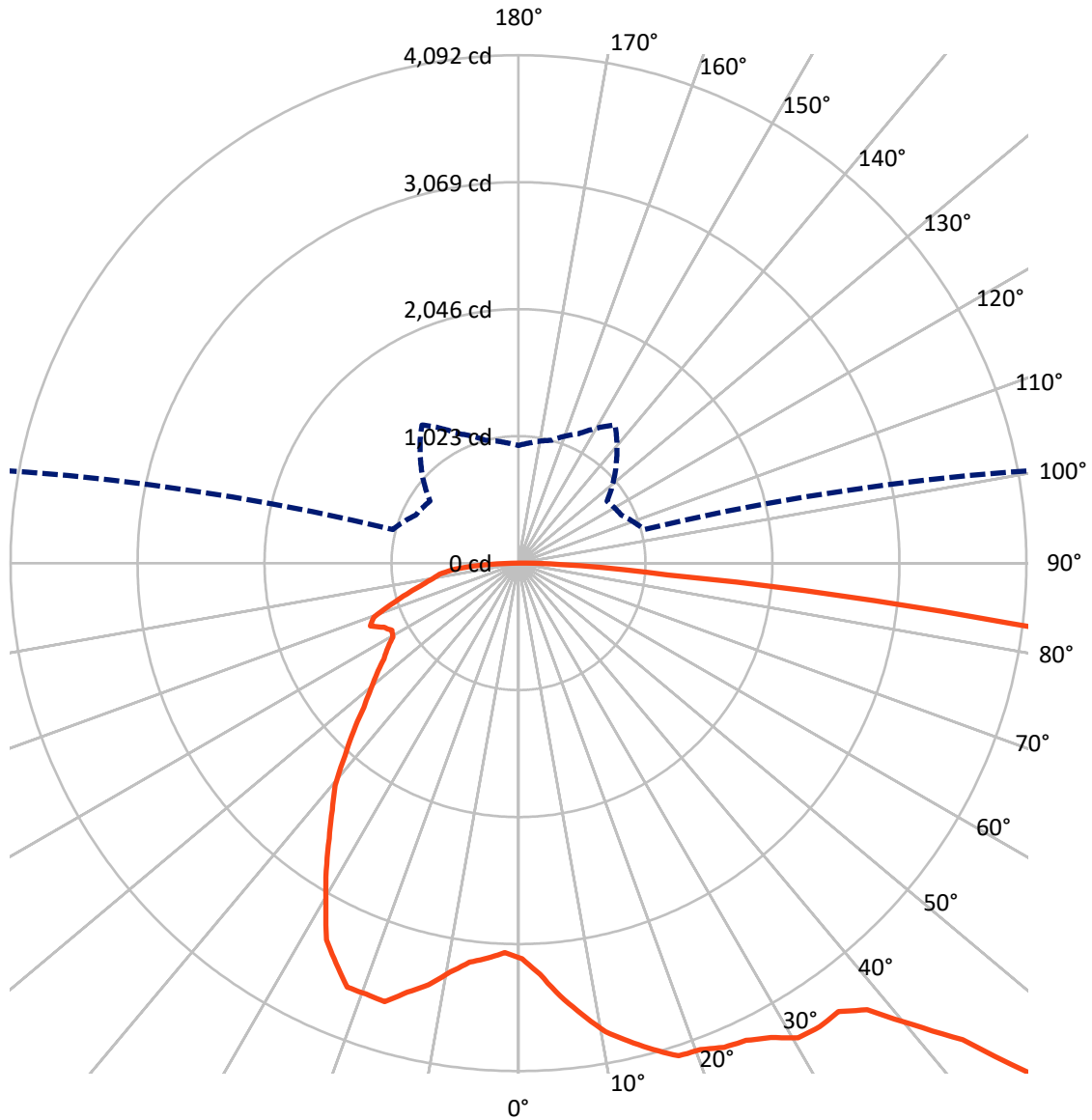
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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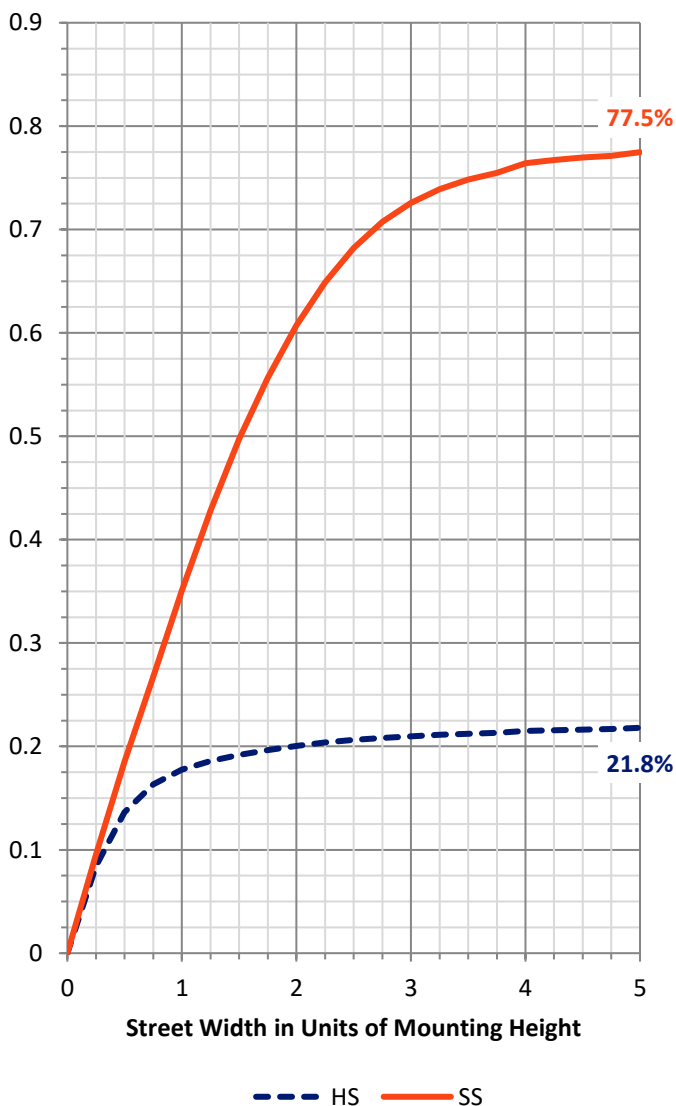
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6886.8	0.0	6886.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24050.2	0.0	24050.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	30937.0	0.0	30937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.0	1.1
10°-20°	1084.7	3.5
20°-30°	1831.7	5.9
30°-40°	2534.8	8.2
40°-50°	3625.7	11.7
50°-60°	5847.9	18.9
60°-70°	8624.8	27.9
70°-80°	6263.1	20.2
80°-90°	798.4	2.6
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°	30937.0	100.0
0°-180°	30937.0	100.0

Coefficient of Utilization



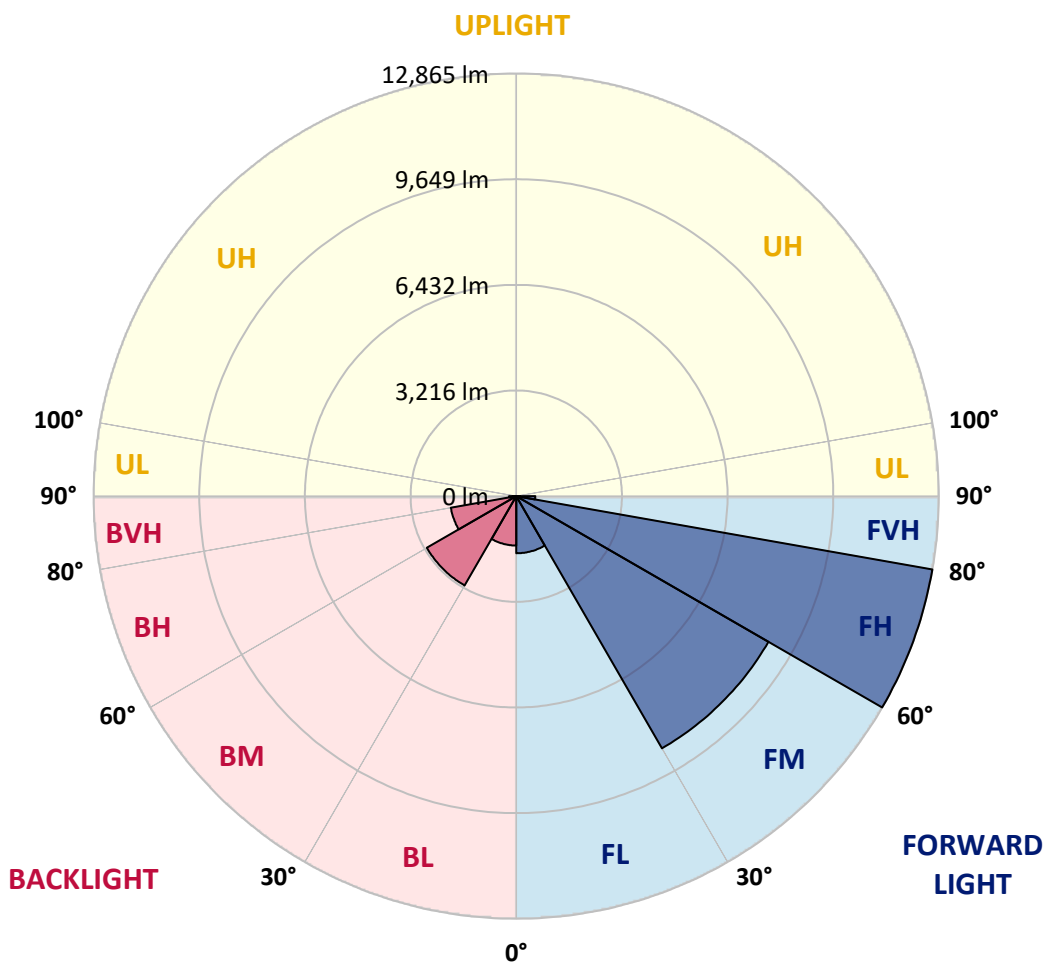
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1738.7	5.6			
FM (30°-60°)	8865.5	28.7			
FH (60°-80°)	12865.0	41.6			G5
FVH (80°-90°)	581.1	1.9			G4/750
BL (0°-30°)	1503.7	4.9	B3/2500		
BM (30°-60°)	3142.9	10.2	B3/5000		
BH (60°-80°)	2022.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	217.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0
2.5°	3356.1	3376.1	3356.1	3352.8	3319.4	3296.0	3316.1	3286.0	3252.7	3239.3	3209.3
5°	3663.0	3666.3	3629.6	3633.0	3562.9	3489.5	3502.9	3412.8	3316.1	3279.4	3219.3
7.5°	3976.6	3939.9	3886.5	3869.8	3759.8	3679.7	3669.7	3589.6	3439.5	3356.1	3272.7
10°	4180.1	4193.4	4106.7	4033.3	3939.9	3843.2	3839.8	3689.7	3603.0	3479.5	3372.8
12.5°	4360.3	4363.6	4290.2	4173.4	4056.7	3936.6	3953.2	3886.5	3739.7	3623.0	3516.2
15°	4500.4	4480.3	4400.3	4293.5	4170.1	4076.7	4066.7	4010.0	3886.5	3789.8	3613.0
17.5°	4540.4	4530.4	4450.3	4336.9	4216.8	4146.7	4173.4	4080.0	4030.0	3943.2	3773.1
20°	4463.7	4440.3	4427.0	4300.2	4213.5	4206.8	4183.4	4203.5	4120.1	4040.0	3916.6
22.5°	4323.6	4313.5	4306.9	4206.8	4166.8	4196.8	4236.8	4266.8	4253.5	4176.8	4036.7
25°	4180.1	4226.8	4183.4	4136.7	4193.4	4270.2	4260.2	4356.9	4356.9	4333.6	4216.8
27.5°	4280.2	4250.2	4216.8	4193.4	4213.5	4333.6	4326.9	4443.7	4487.0	4443.7	4310.2
30°	4530.4	4500.4	4403.6	4300.2	4273.5	4403.6	4437.0	4540.4	4560.4	4453.7	4340.2
32.5°	5000.8	4984.1	4830.6	4527.1	4363.6	4437.0	4453.7	4570.4	4553.7	4487.0	4440.3
35°	5698.0	5641.3	5427.8	4914.0	4553.7	4480.3	4437.0	4530.4	4593.8	4560.4	4517.0
37.5°	6462.0	6398.6	6135.0	5484.5	4897.4	4597.1	4563.8	4640.5	4713.9	4697.2	4607.1
40°	7192.6	7192.6	6955.7	6198.4	5407.8	4880.7	4887.3	4800.6	4867.3	4837.3	4854.0
42.5°	7913.2	7886.5	7789.7	7035.8	5954.9	5354.4	5247.6	5030.8	5150.9	5140.9	5164.2
45°	8643.8	8623.8	8597.1	7816.4	6738.9	5994.9	5938.2	5547.9	5658.0	5611.3	5711.4
47.5°	9227.6	9250.9	9250.9	8687.1	7576.2	6849.0	6765.6	6148.4	6358.6	6381.9	6405.3
50°	9724.7	9734.7	9724.7	9517.8	8510.3	7826.4	7656.3	7029.1	7239.3	7422.8	7636.3
52.5°	10411.9	10425.2	10378.5	10298.5	9778.0	8853.9	8663.8	7966.5	8396.9	8590.4	8974.0
55°	11259.3	11159.2	11072.4	11132.5	10995.7	9984.9	9788.0	8934.0	9581.2	9838.1	10605.4
57.5°	11416.0	11502.8	11723.0	12200.0	12396.9	11085.8	10972.4	10121.7	10919.0	11142.5	12423.5
60°	11969.8	11826.4	12366.8	13401.0	13621.2	12520.3	12403.5	11422.7	12250.1	12483.6	14101.6
62.5°	12333.5	12326.8	13127.5	14355.1	14855.5	14008.2	13771.3	13114.1	13687.9	13914.8	15929.8
65°	12226.7	12323.5	13744.6	14915.6	15886.4	15699.6	15562.8	14568.6	15325.9	15305.9	17120.7
67.5°	11252.6	11526.1	13354.3	15319.3	17421.0	17761.3	17717.9	16613.7	16657.0	16233.3	17651.2
70°	9901.5	9808.1	11703.0	14898.9	18188.3	20206.6	20196.6	18134.9	17854.7	16436.8	16129.9
72°	7606.3	7502.8	9060.8	12793.8	17784.6	21184.1	21484.3	19189.1	17841.3	15592.8	13324.3
72.5°	6905.7	6815.6	8366.9	12043.2	17337.6	21437.6	21297.5	19229.1	17701.2	15195.8	12446.9
75°	3179.3	3075.9	4180.1	7372.7	13524.4	18995.6	19472.7	17994.8	15459.4	12096.6	7456.1
77.5°	947.4	917.4	1344.4	2975.8	7859.8	13994.8	14178.3	13577.8	10792.2	6625.4	2765.6
80°	527.1	530.4	693.9	1114.2	3456.2	8090.0	8750.5	8386.9	5294.4	2188.5	920.8
82.5°	293.6	310.3	433.7	660.5	1588.0	3713.1	3996.6	3853.2	1914.9	1027.5	503.7
85°	153.5	160.1	226.9	353.6	900.7	1174.3	1207.7	1294.4	994.2	700.6	270.2
87.5°	60.0	60.0	83.4	146.8	333.6	363.6	326.9	397.0	570.5	453.7	133.4
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°	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0	3186.0
2.5°	3236.0	3209.3	3206.0	3162.6	3175.9	3139.2	3142.6	3135.9	3139.2	3132.6	3115.9
5°	3219.3	3199.3	3142.6	3179.3	3145.9	3192.6	3229.3	3216.0	3226.0	3222.6	3226.0
7.5°	3242.7	3216.0	3209.3	3189.3	3219.3	3239.3	3269.4	3352.8	3346.1	3356.1	3376.1
10°	3312.7	3282.7	3262.7	3292.7	3276.0	3339.4	3372.8	3416.1	3492.9	3496.2	3456.2
12.5°	3449.5	3429.5	3389.5	3396.1	3452.8	3472.9	3492.9	3519.6	3569.6	3559.6	3596.3
15°	3606.3	3562.9	3539.6	3532.9	3546.2	3569.6	3566.3	3593.0	3619.6	3643.0	3633.0
17.5°	3719.7	3663.0	3669.7	3703.0	3699.7	3693.0	3649.7	3636.3	3649.7	3663.0	3656.3
20°	3836.5	3843.2	3793.1	3763.1	3749.7	3683.0	3649.7	3609.6	3569.6	3589.6	3619.6
22.5°	3983.3	3953.2	3879.9	3789.8	3723.1	3683.0	3579.6	3509.6	3509.6	3529.6	3519.6
25°	4150.1	4086.7	3959.9	3796.5	3713.1	3542.9	3469.5	3459.5	3432.8	3462.8	3476.2
27.5°	4280.2	4223.5	4050.0	3773.1	3542.9	3406.1	3362.8	3349.4	3392.8	3396.1	3449.5
30°	4333.6	4316.9	4063.3	3713.1	3369.4	3149.3	3122.6	3182.6	3229.3	3299.4	3302.7
32.5°	4403.6	4410.3	4083.4	3572.9	3142.6	2922.4	2882.4	2955.8	3089.2	3145.9	3189.3
35°	4520.4	4553.7	4066.7	3399.5	2902.4	2692.2	2685.5	2705.6	2835.7	2935.7	2992.5
37.5°	4723.9	4717.2	4063.3	3192.6	2712.2	2492.0	2438.7	2445.3	2532.1	2615.5	2605.5
40°	4997.4	4970.8	4053.3	2922.4	2465.4	2321.9	2231.8	2198.5	2191.8	2168.4	2175.1
42.5°	5371.1	5317.7	4050.0	2648.8	2241.8	2088.4	2025.0	1938.3	1874.9	1754.8	1761.4
45°	5891.5	5798.1	3963.3	2392.0	2021.7	1894.9	1798.1	1734.8	1598.0	1447.9	1447.9
47.5°	6695.5	6391.9	3966.6	2108.4	1808.2	1704.7	1638.0	1527.9	1381.1	1261.0	1247.7
50°	7879.8	7185.9	3853.2	1884.9	1634.7	1564.6	1494.6	1367.8	1227.7	1144.3	1154.3
52.5°	9407.7	8370.2	3849.8	1684.7	1497.9	1447.9	1371.1	1257.7	1154.3	1100.9	1080.9
55°	11229.2	9938.2	3969.9	1521.3	1357.8	1331.1	1297.7	1204.3	1104.2	1057.5	1054.2
57.5°	13094.1	11469.4	4163.4	1404.5	1237.7	1257.7	1234.3	1161.0	1080.9	1027.5	1020.8
60°	14752.1	12683.8	3773.1	1264.4	1130.9	1174.3	1207.7	1144.3	1100.9	1097.6	1074.2
62.5°	16003.2	13204.2	2869.0	1157.6	1074.2	1154.3	1244.4	1284.4	1264.4	1291.1	1294.4
65°	16460.2	12890.6	1975.0	1100.9	1030.8	1201.0	1401.2	1387.8	1271.0	1221.0	1247.7
67.5°	15819.7	11619.5	1464.5	1034.2	1000.8	1297.7	1491.2	1324.4	1147.6	1140.9	1120.9
70°	13604.5	9848.1	1194.3	964.1	950.8	1244.4	1451.2	1227.7	1080.9	1037.5	1017.5
72°	10838.9	7669.6	1047.5	914.1	870.7	1110.9	1357.8	1150.9	1024.2	970.8	947.4
72.5°	9894.8	7109.2	1027.5	890.7	854.0	1080.9	1311.1	1127.6	1010.8	964.1	927.4
75°	5427.8	3639.7	904.1	817.3	720.6	934.1	1214.3	1057.5	954.1	887.4	880.7
77.5°	2018.3	1411.2	780.6	723.9	623.8	807.3	1104.2	1004.2	867.4	784.0	767.3
80°	774.0	743.9	637.2	610.5	523.8	707.2	1017.5	900.7	737.3	653.9	627.2
82.5°	470.4	433.7	483.7	477.1	400.3	643.9	957.5	844.0	653.9	530.4	513.8
85°	256.9	256.9	336.9	323.6	280.2	513.8	723.9	560.5	413.7	340.3	347.0
87.5°	113.4	133.4	180.1	170.1	153.5	290.2	353.6	296.9	206.8	140.1	150.1
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)