

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: P478529

Luminaire Tested: **IFLD-M-SA4C-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478529
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

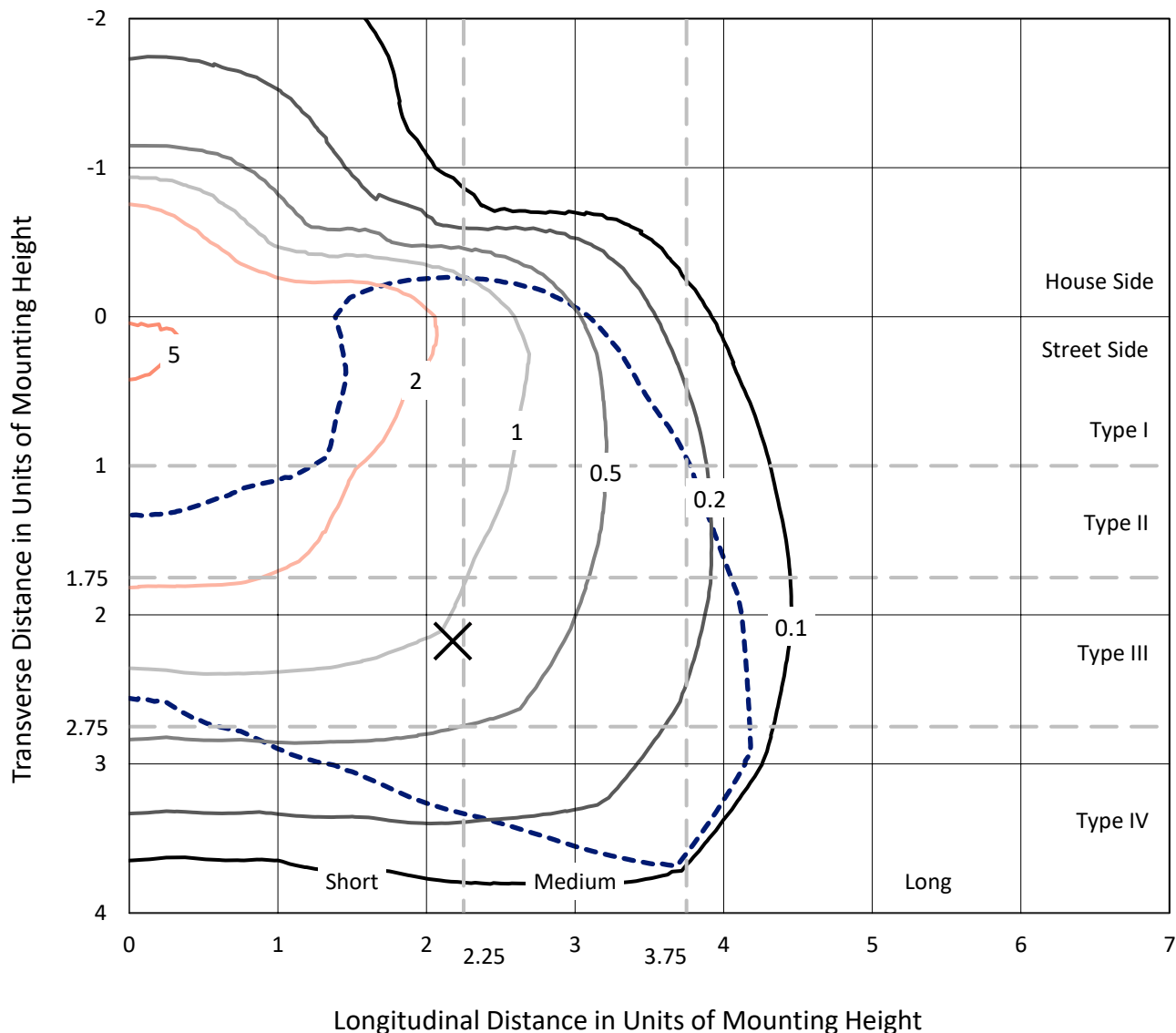
Lumens per Lamp: N/A
Luminaire Lumens: 28344.5 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

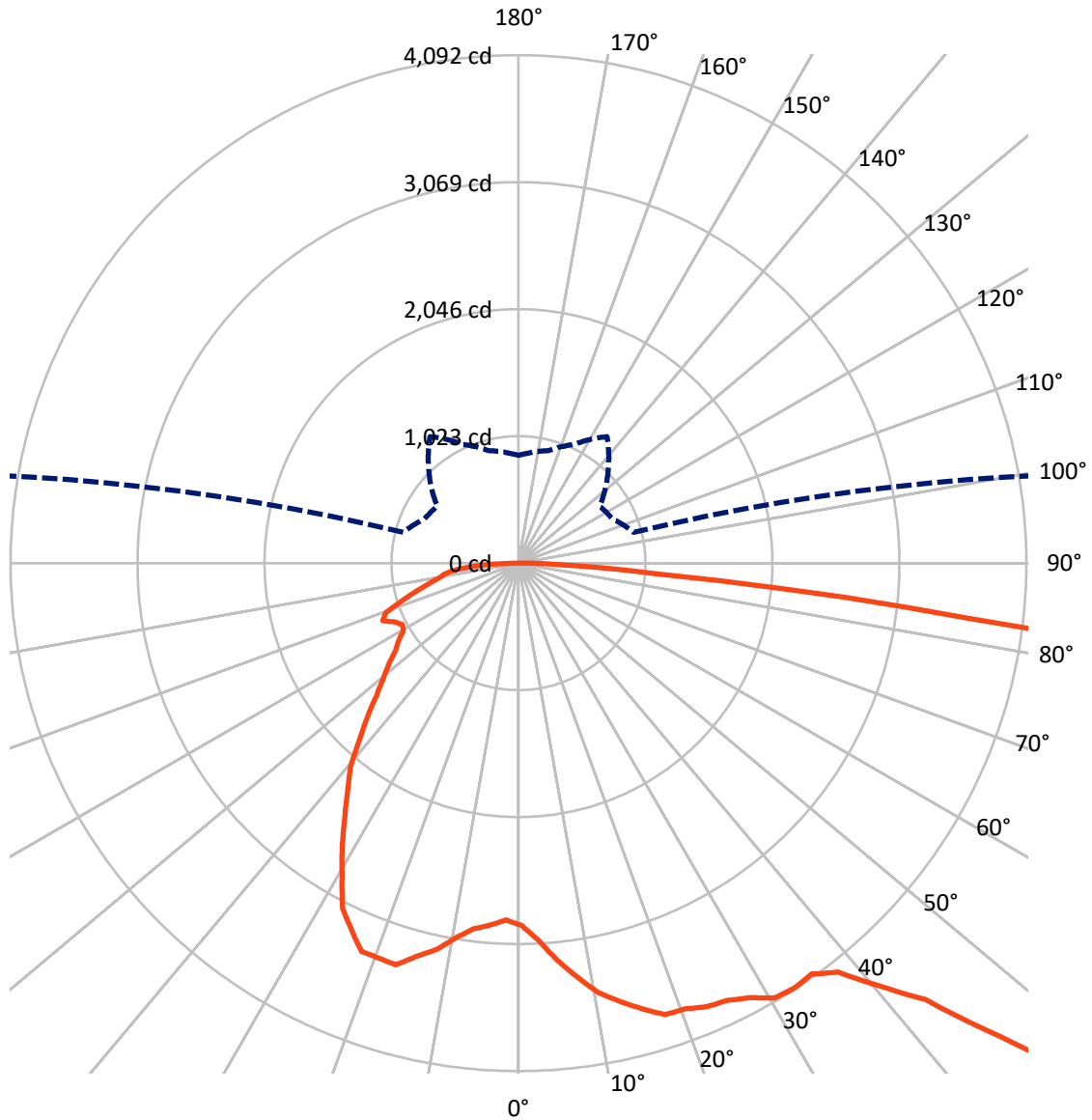
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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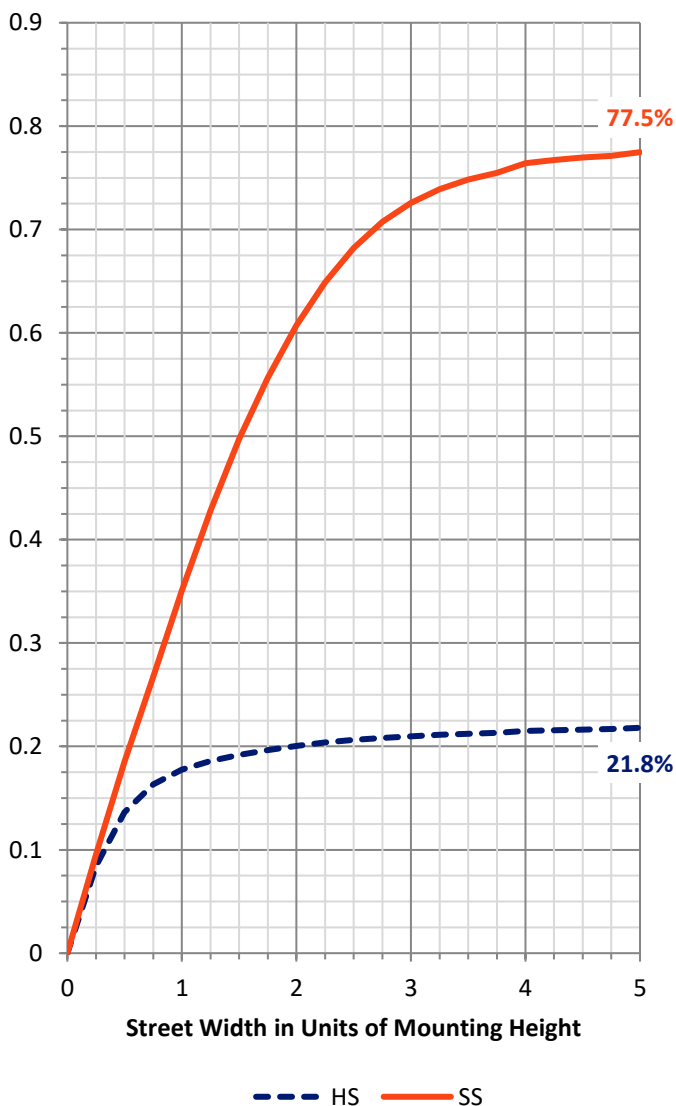
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6309.6	0.0	6309.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22034.8	0.0	22034.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	28344.5	0.0	28344.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	1.1
10°-20°	993.8	3.5
20°-30°	1678.2	5.9
30°-40°	2322.3	8.2
40°-50°	3321.9	11.7
50°-60°	5357.8	18.9
60°-70°	7902.0	27.9
70°-80°	5738.2	20.2
80°-90°	731.5	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°	28344.5	100.0
0°-180°	28344.5	100.0

Coefficient of Utilization



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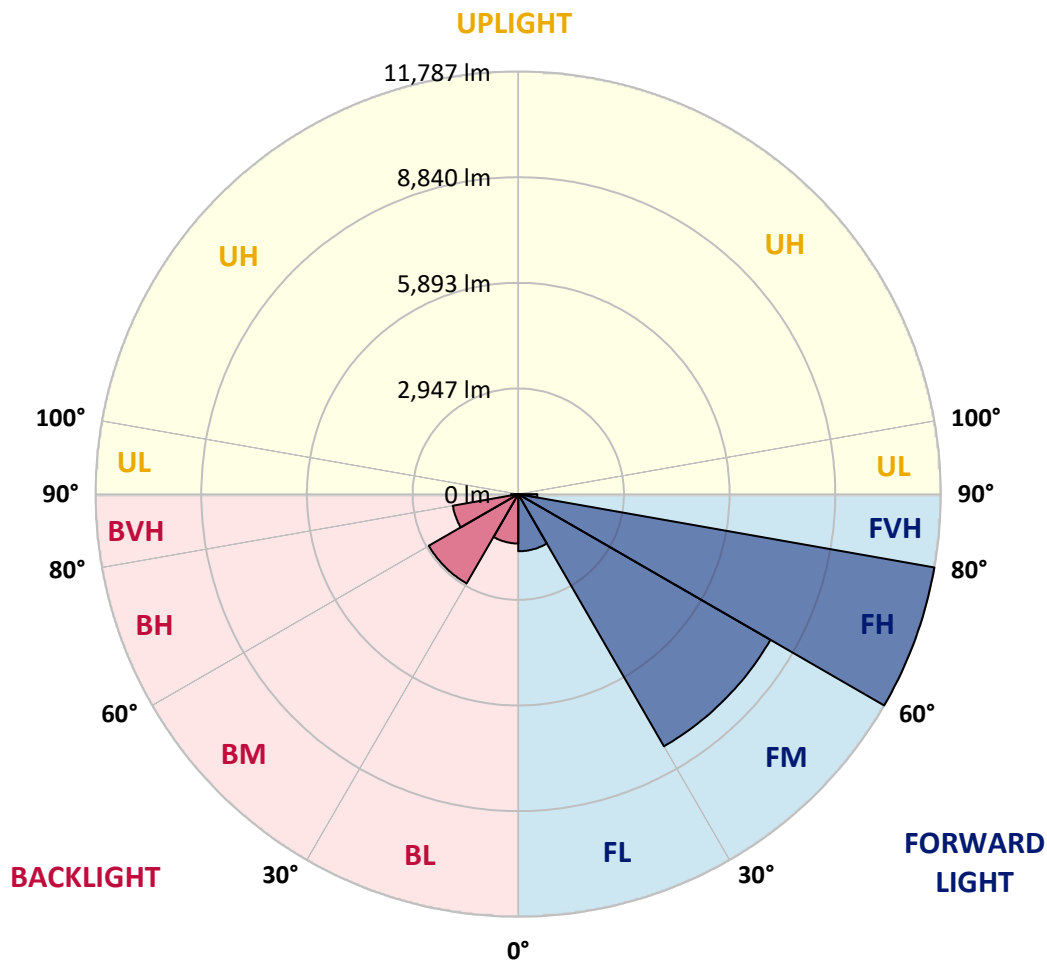
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.0	5.6			
FM (30°-60°)	8122.5	28.7			
FH (60°-80°)	11786.9	41.6			G4/12000
FVH (80°-90°)	532.4	1.9			G4/750
BL (0°-30°)	1377.7	4.9	B3/2500		
BM (30°-60°)	2879.5	10.2	B3/5000		
BH (60°-80°)	1853.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	199.1	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0
2.5°	3074.8	3093.2	3074.8	3071.8	3041.2	3019.8	3038.2	3010.7	2980.1	2967.9	2940.4
5°	3356.0	3359.1	3325.5	3328.5	3264.4	3197.1	3209.3	3126.8	3038.2	3004.5	2949.5
7.5°	3643.4	3609.7	3560.8	3545.6	3444.7	3371.3	3362.2	3288.8	3151.3	3074.8	2998.4
10°	3829.8	3842.0	3762.6	3695.3	3609.7	3521.1	3518.0	3380.5	3301.0	3187.9	3090.1
12.5°	3994.9	3997.9	3930.7	3823.7	3716.7	3606.7	3622.0	3560.8	3426.3	3319.4	3221.6
15°	4123.2	4104.9	4031.5	3933.7	3820.6	3735.1	3725.9	3673.9	3560.8	3472.2	3310.2
17.5°	4159.9	4150.7	4077.4	3973.5	3863.4	3799.2	3823.7	3738.1	3692.3	3612.8	3456.9
20°	4089.6	4068.2	4056.0	3939.8	3860.4	3854.3	3832.9	3851.2	3774.8	3701.4	3588.3
22.5°	3961.2	3952.1	3946.0	3854.3	3817.6	3845.1	3881.8	3909.3	3897.0	3826.7	3698.4
25°	3829.8	3872.6	3832.9	3790.1	3842.0	3912.3	3903.2	3991.8	3991.8	3970.4	3863.4
27.5°	3921.5	3894.0	3863.4	3842.0	3860.4	3970.4	3964.3	4071.3	4111.0	4071.3	3949.0
30°	4150.7	4123.2	4034.6	3939.8	3915.4	4034.6	4065.2	4159.9	4178.2	4080.4	3976.5
32.5°	4581.7	4566.4	4425.8	4147.7	3997.9	4065.2	4080.4	4187.4	4172.1	4111.0	4068.2
35°	5220.5	5168.6	4972.9	4502.2	4172.1	4104.9	4065.2	4150.7	4208.8	4178.2	4138.5
37.5°	5920.5	5862.4	5620.9	5024.9	4487.0	4211.9	4181.3	4251.6	4318.8	4303.6	4221.0
40°	6589.8	6589.8	6372.8	5679.0	4954.6	4471.7	4477.8	4398.3	4459.4	4431.9	4447.2
42.5°	7250.0	7225.6	7136.9	6446.2	5455.9	4905.7	4807.9	4609.2	4719.2	4710.1	4731.5
45°	7919.4	7901.1	7876.6	7161.4	6174.1	5492.5	5440.6	5083.0	5183.8	5141.0	5232.7
47.5°	8454.3	8475.7	8475.7	7959.1	6941.3	6275.0	6198.6	5633.1	5825.7	5847.1	5868.5
50°	8909.7	8918.9	8909.7	8720.2	7797.2	7170.6	7014.7	6440.1	6632.6	6800.7	6996.3
52.5°	9539.4	9551.6	9508.8	9435.4	8958.6	8112.0	7937.8	7298.9	7693.2	7870.5	8222.0
55°	10315.7	10224.0	10144.6	10199.6	10074.3	9148.1	8967.8	8185.3	8778.3	9013.6	9716.6
57.5°	10459.4	10538.8	10740.6	11177.7	11358.0	10156.8	10052.9	9273.4	10004.0	10208.7	11382.4
60°	10966.8	10835.3	11330.5	12278.0	12479.7	11471.1	11364.1	10465.5	11223.5	11437.5	12919.9
62.5°	11299.9	11293.8	12027.4	13152.2	13610.6	12834.3	12617.3	12015.1	12540.9	12748.7	14594.8
65°	11202.1	11290.7	12592.8	13665.7	14555.1	14383.9	14258.6	13347.8	14041.6	14023.3	15686.0
67.5°	10309.6	10560.2	12235.2	14035.5	15961.1	16272.9	16233.1	15221.4	15261.1	14873.0	16172.0
70°	9071.7	8986.1	10722.2	13650.4	16664.1	18513.3	18504.1	16615.2	16358.4	15059.4	14778.2
72°	6968.8	6874.1	8301.5	11721.7	16294.2	19408.8	19683.9	17581.0	16346.2	14286.1	12207.7
72.5°	6327.0	6244.4	7665.7	11034.0	15884.7	19641.1	19512.8	17617.7	16217.8	13922.4	11403.8
75°	2912.9	2818.1	3829.8	6754.9	12391.1	17403.8	17840.8	16486.8	14163.9	11082.9	6831.3
77.5°	868.0	840.5	1231.8	2726.4	7201.1	12822.1	12990.2	12440.0	9887.8	6070.2	2533.8
80°	482.9	486.0	635.8	1020.9	3166.5	7412.0	8017.2	7684.1	4850.7	2005.1	843.6
82.5°	269.0	284.3	397.3	605.2	1454.9	3401.9	3661.7	3530.3	1754.4	941.4	461.5
85°	140.6	146.7	207.8	324.0	825.3	1075.9	1106.5	1185.9	910.8	641.9	247.6
87.5°	55.0	55.0	76.4	134.5	305.7	333.2	299.5	363.7	522.7	415.7	122.3
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°	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0	2919.0
2.5°	2964.8	2940.4	2937.3	2897.6	2909.8	2876.2	2879.2	2873.1	2876.2	2870.1	2854.8
5°	2949.5	2931.2	2879.2	2912.9	2882.3	2925.1	2958.7	2946.5	2955.6	2952.6	2955.6
7.5°	2970.9	2946.5	2940.4	2922.0	2949.5	2967.9	2995.4	3071.8	3065.7	3074.8	3093.2
10°	3035.1	3007.6	2989.3	3016.8	3001.5	3059.6	3090.1	3129.9	3200.2	3203.2	3166.5
12.5°	3160.4	3142.1	3105.4	3111.5	3163.5	3181.8	3200.2	3224.6	3270.5	3261.3	3294.9
15°	3304.1	3264.4	3243.0	3236.8	3249.1	3270.5	3267.4	3291.9	3316.3	3337.7	3328.5
17.5°	3408.0	3356.0	3362.2	3392.7	3389.7	3383.6	3343.8	3331.6	3343.8	3356.0	3349.9
20°	3515.0	3521.1	3475.3	3447.7	3435.5	3374.4	3343.8	3307.1	3270.5	3288.8	3316.3
22.5°	3649.5	3622.0	3554.7	3472.2	3411.1	3374.4	3279.6	3215.4	3215.4	3233.8	3224.6
25°	3802.3	3744.2	3628.1	3478.3	3401.9	3246.0	3178.8	3169.6	3145.1	3172.7	3184.9
27.5°	3921.5	3869.5	3710.6	3456.9	3246.0	3120.7	3081.0	3068.7	3108.5	3111.5	3160.4
30°	3970.4	3955.1	3722.8	3401.9	3087.1	2885.3	2860.9	2915.9	2958.7	3022.9	3025.9
32.5°	4034.6	4040.7	3741.2	3273.5	2879.2	2677.5	2640.8	2708.1	2830.3	2882.3	2922.0
35°	4141.6	4172.1	3725.9	3114.6	2659.2	2466.6	2460.5	2478.8	2598.0	2689.7	2741.7
37.5°	4328.0	4321.9	3722.8	2925.1	2484.9	2283.2	2234.3	2240.4	2319.9	2396.3	2387.1
40°	4578.7	4554.2	3713.7	2677.5	2258.8	2127.3	2044.8	2014.2	2008.1	1986.7	1992.8
42.5°	4921.0	4872.1	3710.6	2426.9	2054.0	1913.4	1855.3	1775.8	1717.8	1607.7	1613.8
45°	5397.8	5312.2	3631.1	2191.5	1852.2	1736.1	1647.5	1589.4	1464.1	1326.5	1326.5
47.5°	6134.4	5856.3	3634.2	1931.7	1656.6	1561.9	1500.7	1399.9	1265.4	1155.4	1143.1
50°	7219.5	6583.7	3530.3	1726.9	1497.7	1433.5	1369.3	1253.2	1124.8	1048.4	1057.6
52.5°	8619.4	7668.8	3527.2	1543.5	1372.4	1326.5	1256.2	1152.3	1057.6	1008.6	990.3
55°	10288.2	9105.3	3637.2	1393.8	1244.0	1219.5	1189.0	1103.4	1011.7	968.9	965.9
57.5°	11996.8	10508.3	3814.5	1286.8	1134.0	1152.3	1130.9	1063.7	990.3	941.4	935.3
60°	13515.9	11620.8	3456.9	1158.4	1036.2	1075.9	1106.5	1048.4	1008.6	1005.6	984.2
62.5°	14662.1	12097.7	2628.6	1060.6	984.2	1057.6	1140.1	1176.8	1158.4	1182.9	1185.9
65°	15080.8	11810.3	1809.5	1008.6	944.5	1100.3	1283.7	1271.5	1164.5	1118.7	1143.1
67.5°	14494.0	10645.8	1341.8	947.5	917.0	1189.0	1366.3	1213.4	1051.4	1045.3	1027.0
70°	12464.4	9022.8	1094.2	883.3	871.1	1140.1	1329.6	1124.8	990.3	950.6	932.2
72°	9930.6	7026.9	959.7	837.5	797.7	1017.8	1244.0	1054.5	938.3	889.4	868.0
72.5°	9065.6	6513.4	941.4	816.1	782.5	990.3	1201.2	1033.1	926.1	883.3	849.7
75°	4972.9	3334.7	828.3	748.8	660.2	855.8	1112.6	968.9	874.2	813.0	806.9
77.5°	1849.2	1292.9	715.2	663.3	571.6	739.7	1011.7	920.0	794.7	718.3	703.0
80°	709.1	681.6	583.8	559.3	479.9	648.0	932.2	825.3	675.5	599.1	574.6
82.5°	431.0	397.3	443.2	437.1	366.8	589.9	877.2	773.3	599.1	486.0	470.7
85°	235.4	235.4	308.7	296.5	256.7	470.7	663.3	513.5	379.0	311.8	317.9
87.5°	103.9	122.3	165.1	155.9	140.6	265.9	324.0	272.0	189.5	128.4	137.5
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)