

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: P478530

Luminaire Tested: **IFLD-M-SA4D-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478530
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

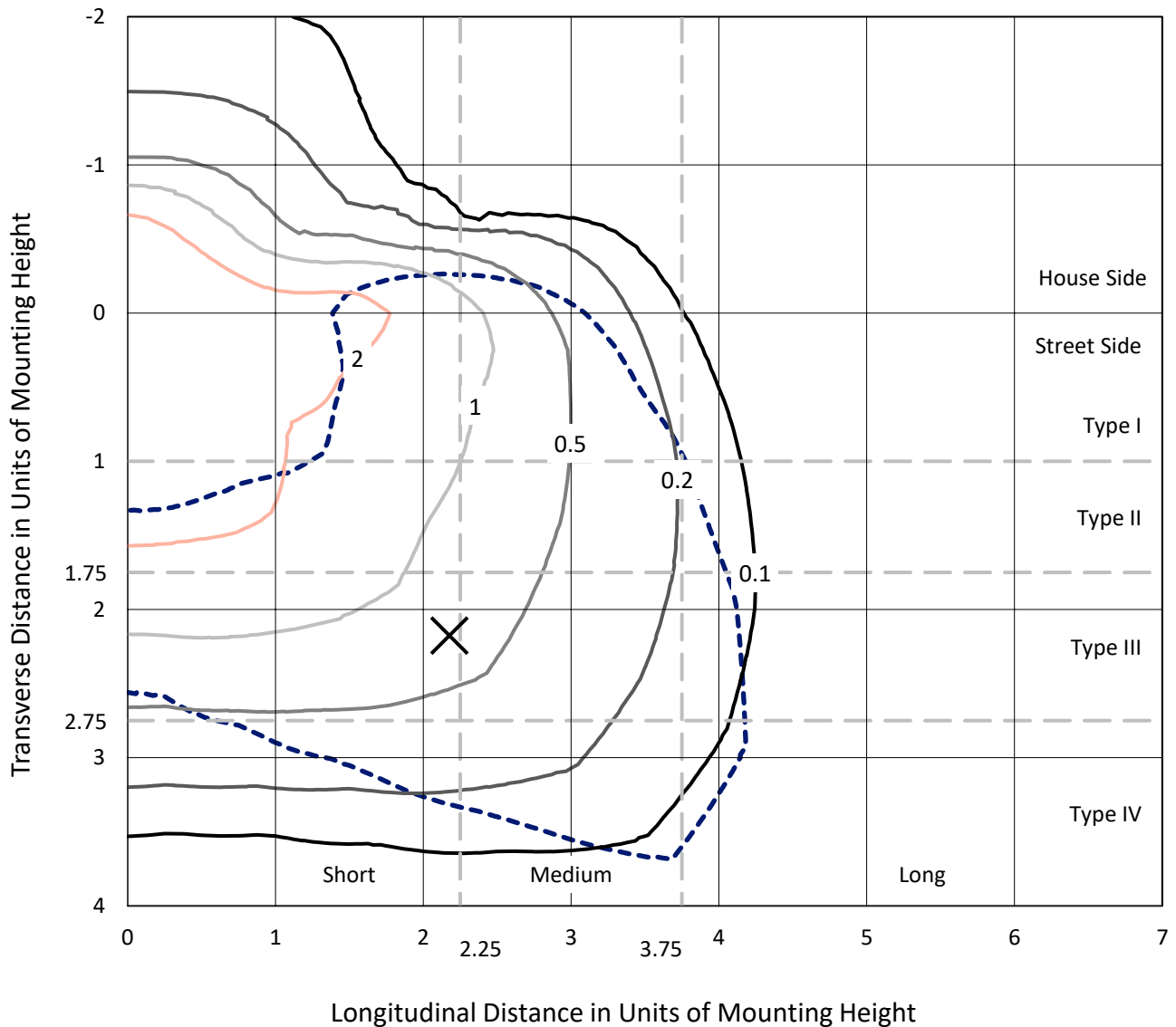
Lumens per Lamp: N/A
Luminaire Lumens: 31187.9 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (A_{in}): 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

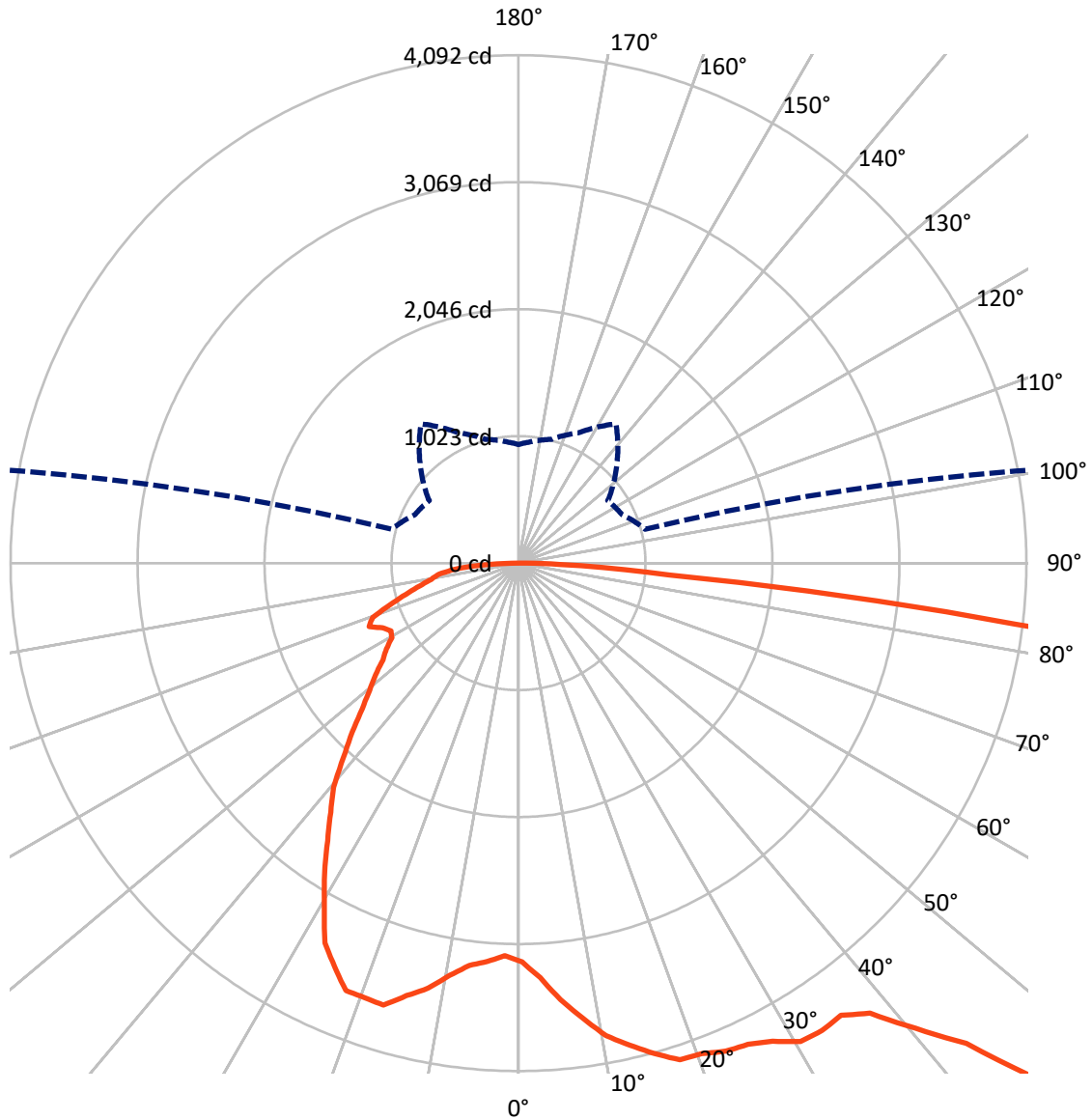
× Max cd
 - - - 1/2 Max cd



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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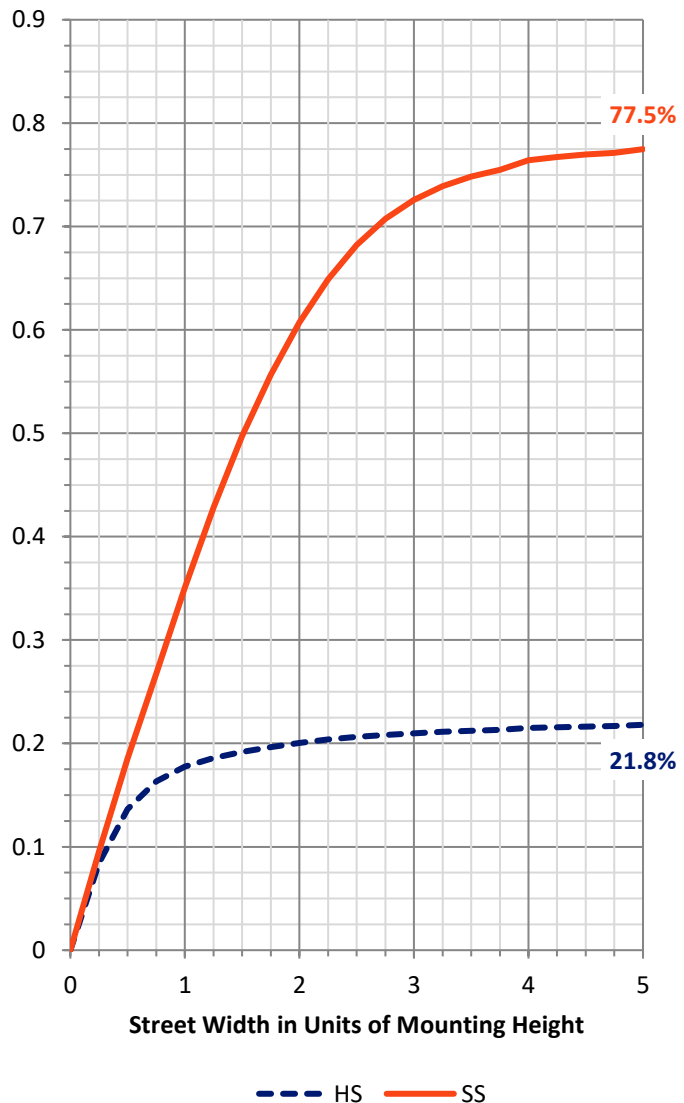
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6942.6	0.0	6942.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	24245.3	0.0	24245.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	31187.9	0.0	31187.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.7	1.1
10°-20°	1093.5	3.5
20°-30°	1846.5	5.9
30°-40°	2555.3	8.2
40°-50°	3655.1	11.7
50°-60°	5895.3	18.9
60°-70°	8694.8	27.9
70°-80°	6313.9	20.2
80°-90°	804.9	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°	31187.9	100.0
0°-180°	31187.9	100.0

Coefficient of Utilization

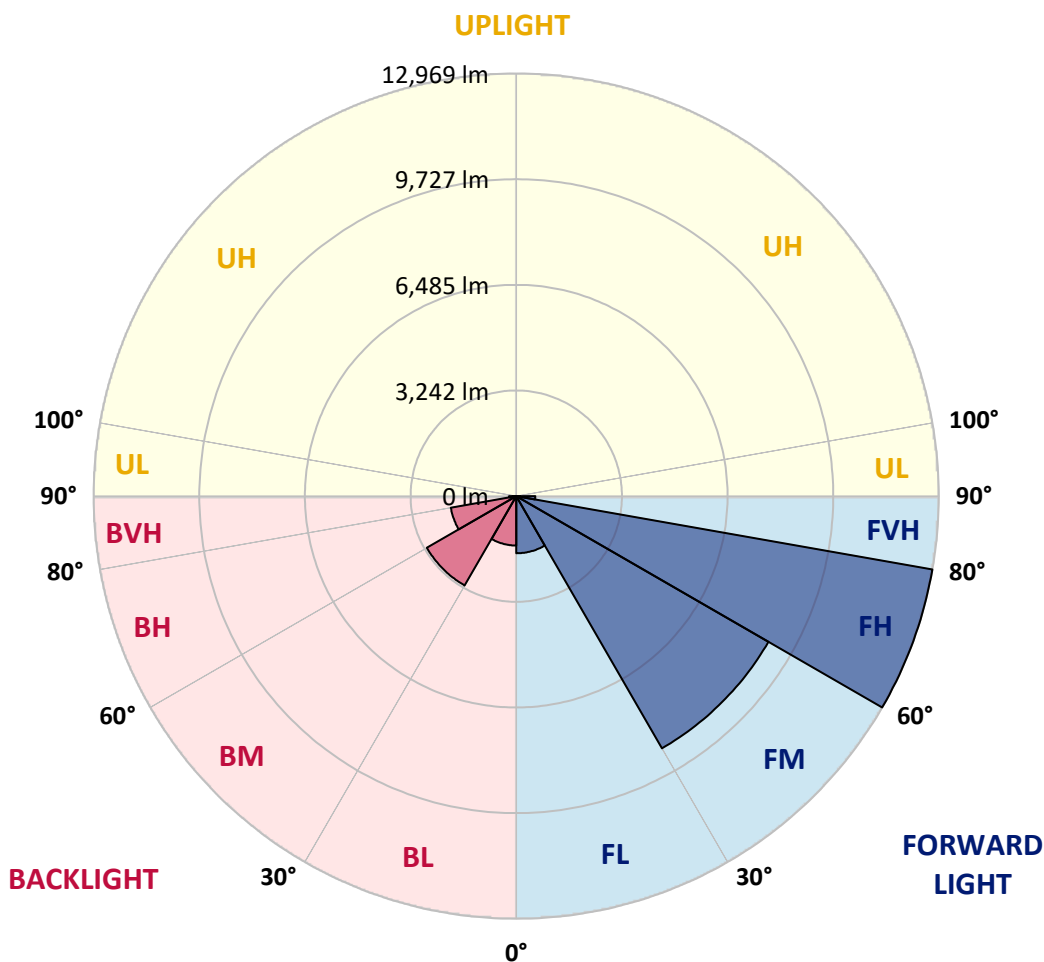


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1752.8	5.6			
FM (30°-60°)	8937.4	28.7			
FH (60°-80°)	12969.3	41.6			G5
FVH (80°-90°)	585.8	1.9			G4/750
BL (0°-30°)	1515.9	4.9	B3/2500		
BM (30°-60°)	3168.4	10.2	B3/5000		
BH (60°-80°)	2039.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	219.0	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°	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8
2.5°	3383.3	3403.5	3383.3	3380.0	3346.3	3322.8	3343.0	3312.7	3279.1	3265.6	3235.3
5°	3692.7	3696.1	3659.1	3662.5	3591.8	3517.8	3531.3	3440.5	3343.0	3306.0	3245.4
7.5°	4008.9	3971.9	3918.1	3901.2	3790.3	3709.5	3699.4	3618.7	3467.4	3383.3	3299.2
10°	4214.0	4227.5	4140.0	4066.0	3971.9	3874.3	3871.0	3719.6	3632.2	3507.8	3400.1
12.5°	4395.6	4399.0	4325.0	4207.3	4089.6	3968.5	3985.3	3918.1	3770.1	3652.4	3544.7
15°	4536.9	4516.7	4436.0	4328.4	4203.9	4109.8	4099.7	4042.5	3918.1	3820.5	3642.3
17.5°	4577.2	4567.1	4486.4	4372.1	4251.0	4180.4	4207.3	4113.1	4062.7	3975.2	3803.7
20°	4499.9	4476.3	4462.9	4335.1	4247.6	4240.9	4217.4	4237.6	4153.5	4072.8	3948.3
22.5°	4358.6	4348.5	4341.8	4240.9	4200.6	4230.8	4271.2	4301.5	4288.0	4210.6	4069.4
25°	4214.0	4261.1	4217.4	4170.3	4227.5	4304.8	4294.7	4392.3	4392.3	4368.7	4251.0
27.5°	4314.9	4284.6	4251.0	4227.5	4247.6	4368.7	4362.0	4479.7	4523.4	4479.7	4345.2
30°	4567.1	4536.9	4439.3	4335.1	4308.2	4439.3	4473.0	4577.2	4597.4	4489.8	4375.4
32.5°	5041.3	5024.5	4869.8	4563.8	4399.0	4473.0	4489.8	4607.5	4590.7	4523.4	4476.3
35°	5744.2	5687.1	5471.8	4953.9	4590.7	4516.7	4473.0	4567.1	4631.0	4597.4	4553.7
37.5°	6514.4	6450.5	6184.8	5529.0	4937.1	4634.4	4600.8	4678.1	4752.1	4735.3	4644.5
40°	7250.9	7250.9	7012.1	6248.7	5451.6	4920.3	4927.0	4839.6	4906.8	4876.5	4893.4
42.5°	7977.4	7950.5	7852.9	7092.9	6003.2	5397.8	5290.2	5071.6	5192.7	5182.6	5206.1
45°	8713.9	8693.7	8666.8	7879.8	6793.5	6043.6	5986.4	5592.9	5703.9	5656.8	5757.7
47.5°	9302.4	9326.0	9326.0	8757.6	7637.7	6904.5	6820.4	6198.3	6410.1	6433.7	6457.2
50°	9803.5	9813.6	9803.5	9595.0	8579.4	7889.9	7718.4	7086.1	7298.0	7483.0	7698.2
52.5°	10496.3	10509.8	10462.7	10382.0	9857.4	8925.8	8734.1	8031.2	8465.0	8660.1	9046.8
55°	11350.6	11249.7	11162.2	11222.8	11084.9	10065.9	9867.4	9006.5	9658.9	9917.9	10691.4
57.5°	11508.6	11596.1	11818.1	12299.0	12497.4	11175.7	11061.4	10203.8	11007.5	11232.9	12524.3
60°	12066.9	11922.3	12467.1	13509.7	13731.7	12621.8	12504.1	11515.4	12349.4	12584.9	14216.0
62.5°	12433.5	12426.8	13233.9	14471.6	14976.0	14121.8	13883.0	13220.5	13798.9	14027.6	16059.0
65°	12325.9	12423.4	13856.1	15036.6	16015.3	15826.9	15689.0	14686.8	15450.2	15430.1	17259.6
67.5°	11343.9	11619.6	13462.6	15443.5	17562.3	17905.3	17861.6	16748.4	16792.1	16365.0	17794.4
70°	9981.8	9887.6	11797.9	15019.8	18335.8	20370.5	20360.4	18282.0	17999.5	16570.2	16260.8
72°	7667.9	7563.7	9134.3	12897.6	17928.9	21355.9	21658.6	19344.8	17986.0	15719.3	13432.4
72.5°	6961.7	6870.9	8434.7	12140.9	17478.2	21611.5	21470.3	19385.1	17844.8	15319.1	12547.9
75°	3205.1	3100.8	4214.0	7432.5	13634.2	19149.7	19630.6	18140.8	15584.8	12194.7	7516.6
77.5°	955.1	924.9	1355.3	2999.9	7923.5	14108.4	14293.3	13688.0	10879.7	6679.2	2788.0
80°	531.4	534.7	699.5	1123.3	3484.2	8155.6	8821.5	8454.9	5337.3	2206.2	928.2
82.5°	296.0	312.8	437.2	665.9	1600.9	3743.2	4029.0	3884.4	1930.4	1035.8	507.8
85°	154.7	161.4	228.7	356.5	908.0	1183.8	1217.5	1304.9	1002.2	706.3	272.4
87.5°	60.5	60.5	84.1	148.0	336.3	366.6	329.6	400.2	575.1	457.4	134.5
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°	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8
2.5°	3262.2	3235.3	3232.0	3188.3	3201.7	3164.7	3168.1	3161.3	3164.7	3158.0	3141.2
5°	3245.4	3225.2	3168.1	3205.1	3171.4	3218.5	3255.5	3242.1	3252.2	3248.8	3252.2
7.5°	3269.0	3242.1	3235.3	3215.2	3245.4	3265.6	3295.9	3380.0	3373.2	3383.3	3403.5
10°	3339.6	3309.3	3289.1	3319.4	3302.6	3366.5	3400.1	3443.9	3521.2	3524.6	3484.2
12.5°	3477.5	3457.3	3416.9	3423.7	3480.8	3501.0	3521.2	3548.1	3598.6	3588.5	3625.5
15°	3635.5	3591.8	3568.3	3561.6	3575.0	3598.6	3595.2	3622.1	3649.0	3672.5	3662.5
17.5°	3749.9	3692.7	3699.4	3733.1	3729.7	3723.0	3679.3	3665.8	3679.3	3692.7	3686.0
20°	3867.6	3874.3	3823.9	3793.6	3780.2	3712.9	3679.3	3638.9	3598.6	3618.7	3649.0
22.5°	4015.6	3985.3	3911.3	3820.5	3753.3	3712.9	3608.6	3538.0	3538.0	3558.2	3548.1
25°	4183.7	4119.8	3992.0	3827.2	3743.2	3571.6	3497.7	3487.6	3460.7	3490.9	3504.4
27.5°	4314.9	4257.7	4082.8	3803.7	3571.6	3433.8	3390.0	3376.6	3420.3	3423.7	3477.5
30°	4368.7	4351.9	4096.3	3743.2	3396.8	3174.8	3147.9	3208.4	3255.5	3326.1	3329.5
32.5°	4439.3	4446.1	4116.5	3601.9	3168.1	2946.1	2905.7	2979.7	3114.3	3171.4	3215.2
35°	4557.0	4590.7	4099.7	3427.0	2925.9	2714.1	2707.3	2727.5	2858.7	2959.6	3016.7
37.5°	4762.2	4755.5	4096.3	3218.5	2734.2	2512.3	2458.5	2465.2	2552.6	2636.7	2626.6
40°	5038.0	5011.1	4086.2	2946.1	2485.4	2340.7	2249.9	2216.3	2209.6	2186.0	2192.8
42.5°	5414.6	5360.8	4082.8	2670.3	2260.0	2105.3	2041.4	1954.0	1890.1	1769.0	1775.7
45°	5939.3	5845.1	3995.4	2411.4	2038.1	1910.3	1812.7	1748.8	1610.9	1459.6	1459.6
47.5°	6749.8	6443.8	3998.8	2125.5	1822.8	1718.6	1651.3	1540.3	1392.3	1271.3	1257.8
50°	7943.7	7244.2	3884.4	1900.2	1647.9	1577.3	1506.7	1378.9	1237.6	1153.6	1163.6
52.5°	9484.0	8438.1	3881.1	1698.4	1510.0	1459.6	1382.2	1267.9	1163.6	1109.8	1089.7
55°	11320.3	10018.8	4002.1	1533.6	1368.8	1341.9	1308.3	1214.1	1113.2	1066.1	1062.8
57.5°	13200.3	11562.5	4197.2	1415.9	1247.7	1267.9	1244.4	1170.4	1089.7	1035.8	1029.1
60°	14871.8	12786.6	3803.7	1274.6	1140.1	1183.8	1217.5	1153.6	1109.8	1106.5	1082.9
62.5°	16133.0	13311.3	2892.3	1167.0	1082.9	1163.6	1254.4	1294.8	1274.6	1301.5	1304.9
65°	16593.7	12995.2	1991.0	1109.8	1039.2	1210.7	1412.5	1399.1	1281.4	1230.9	1257.8
67.5°	15948.0	11713.8	1476.4	1042.6	1008.9	1308.3	1503.3	1335.2	1156.9	1150.2	1130.0
70°	13714.9	9928.0	1204.0	971.9	958.5	1254.4	1463.0	1237.6	1089.7	1045.9	1025.8
72°	10926.8	7731.8	1056.0	921.5	877.8	1119.9	1368.8	1160.3	1032.5	978.7	955.1
72.5°	9975.1	7166.8	1035.8	898.0	861.0	1089.7	1321.7	1136.7	1019.0	971.9	935.0
75°	5471.8	3669.2	911.4	824.0	726.4	941.7	1224.2	1066.1	961.9	894.6	887.9
77.5°	2034.7	1422.6	787.0	729.8	628.9	813.9	1113.2	1012.3	874.4	790.3	773.5
80°	780.2	750.0	642.4	615.5	528.0	713.0	1025.8	908.0	743.3	659.2	632.3
82.5°	474.2	437.2	487.7	480.9	403.6	649.1	965.2	850.9	659.2	534.7	517.9
85°	259.0	259.0	339.7	326.2	282.5	517.9	729.8	565.0	417.0	343.0	349.8
87.5°	114.3	134.5	181.6	171.5	154.7	292.6	356.5	299.3	208.5	141.3	151.3
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)