

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: P478336

Luminaire Tested: **IFLD-M-SA4E-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478336
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

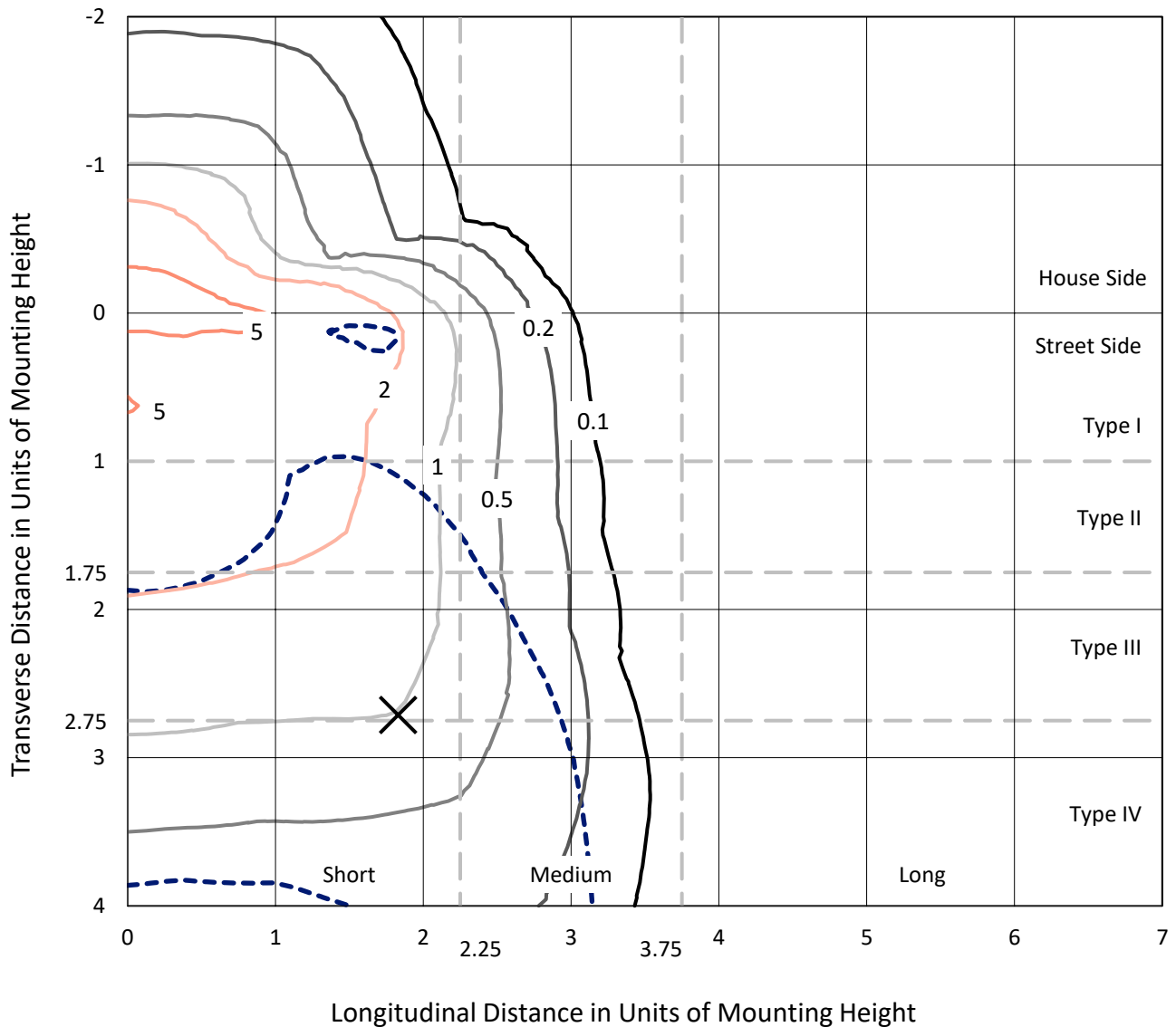
Lumens per Lamp: N/A
Luminaire Lumens: 29472.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

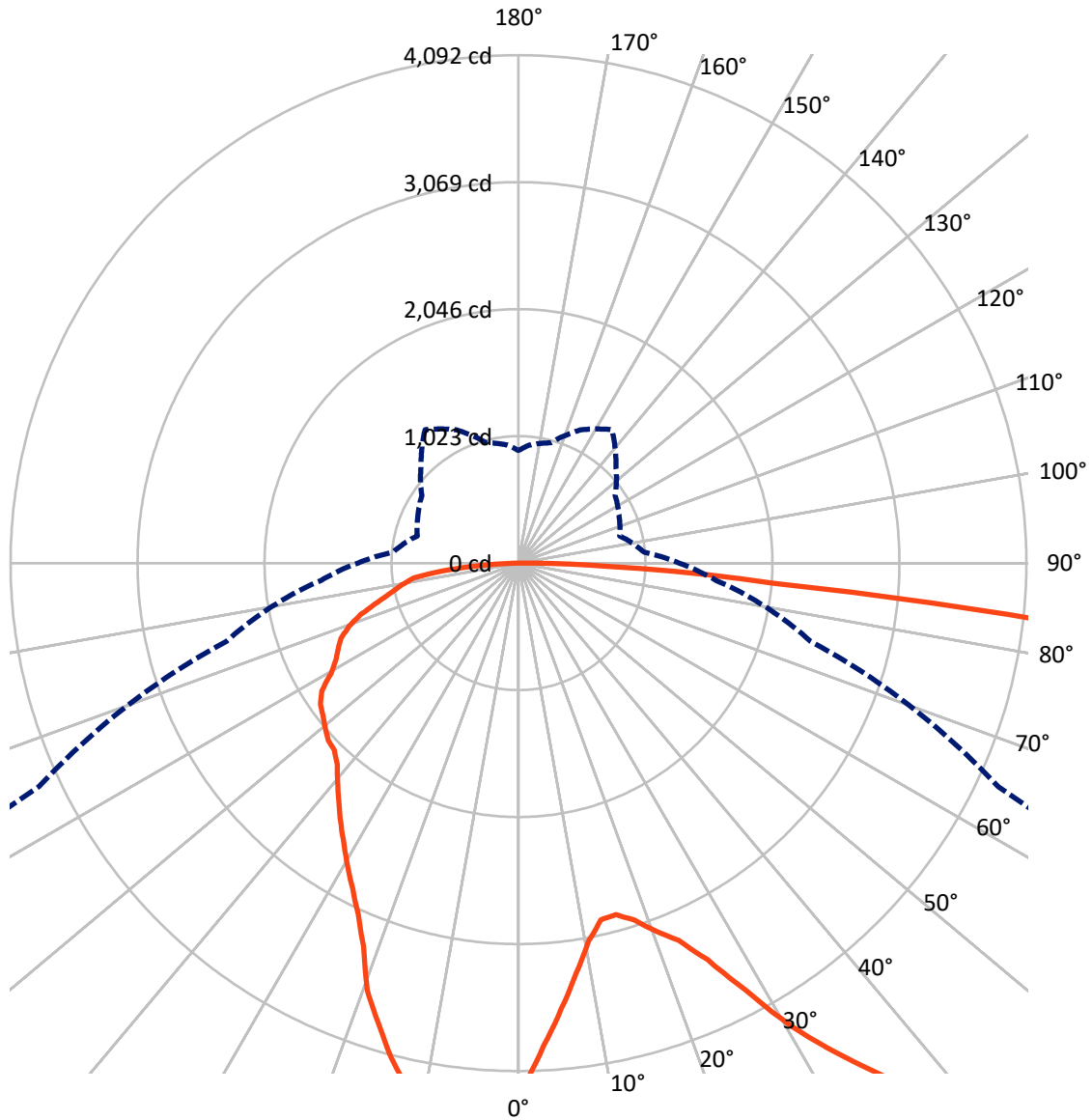
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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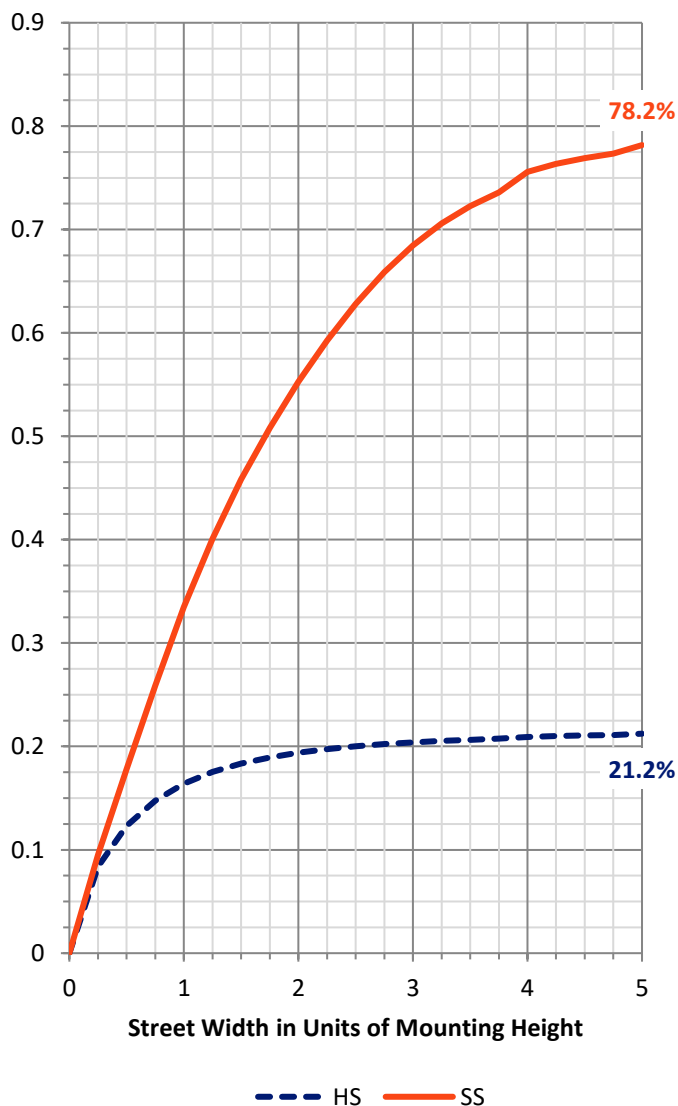
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6366.5	0.0	6366.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23106.3	0.0	23106.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	29472.7	0.0	29472.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.0	1.3
10°-20°	1091.4	3.7
20°-30°	1796.3	6.1
30°-40°	2686.3	9.1
40°-50°	3982.4	13.5
50°-60°	5739.0	19.5
60°-70°	7323.7	24.8
70°-80°	5699.1	19.3
80°-90°	764.6	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°	29472.7	100.0
0°-180°	29472.7	100.0

Coefficient of Utilization



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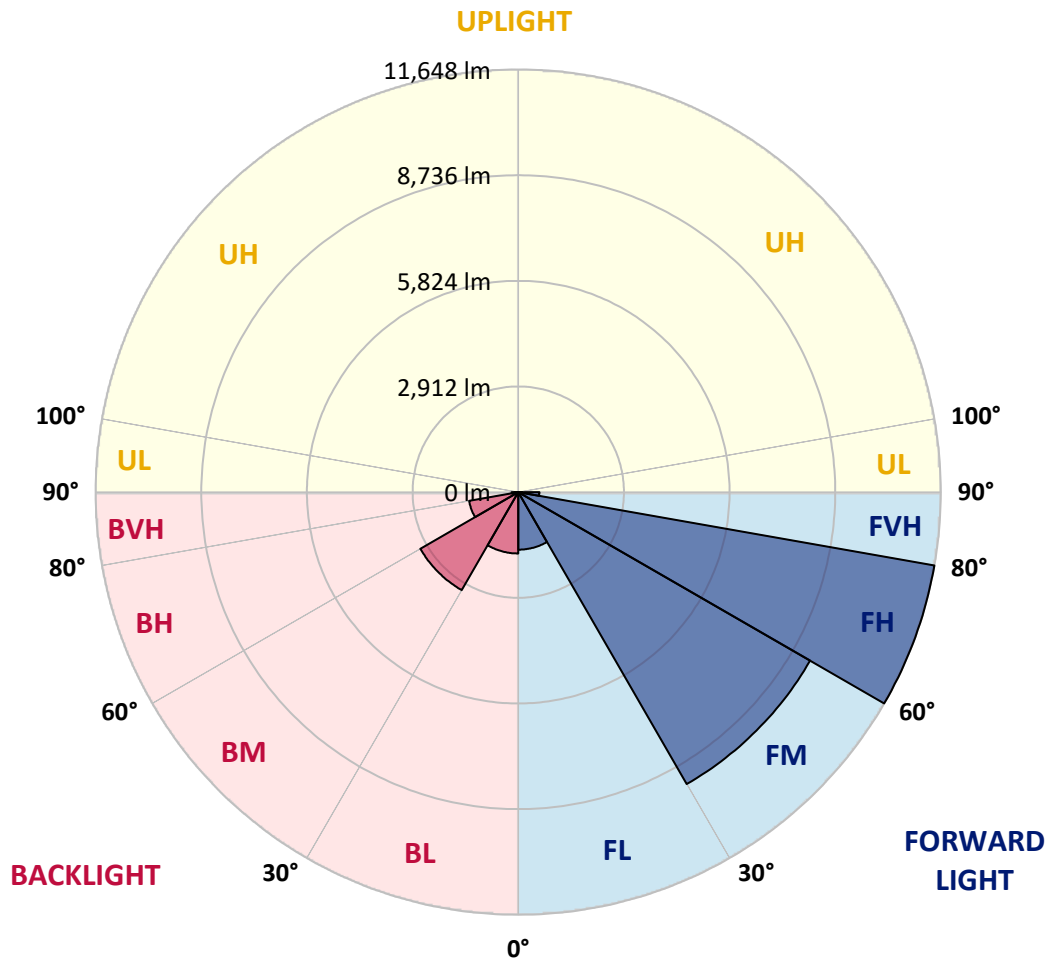
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1586.1	5.4			
FM	(30°-60°)	9290.0	31.5			
FH	(60°-80°)	11648.2	39.5			G4/12000
FVH	(80°-90°)	582.0	2.0			G4/750
BL	(0°-30°)	1691.5	5.7	B3/2500		
BM	(30°-60°)	3117.7	10.6	B3/5000		
BH	(60°-80°)	1374.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	182.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4
2.5°	3786.0	3798.5	3839.0	3848.3	3892.0	3867.0	3920.0	4013.5	4066.5	4144.4	4237.8
5°	3486.9	3433.9	3458.8	3555.4	3605.3	3617.7	3673.8	3832.8	3932.5	4047.8	4222.3
7.5°	3134.8	3125.4	3175.3	3237.6	3337.3	3346.7	3471.3	3611.5	3817.2	4072.7	4278.4
10°	2894.8	2935.3	2963.4	3028.8	3097.4	3097.4	3256.3	3499.3	3733.0	3979.2	4290.8
12.5°	2882.4	2857.4	2863.7	2897.9	2947.8	3010.1	3159.7	3377.8	3673.8	3960.5	4343.8
15°	2922.9	2932.2	2876.1	2919.8	2938.4	2960.3	3125.4	3371.6	3636.4	4026.0	4434.2
17.5°	3137.9	3084.9	2997.7	2957.1	3022.6	3022.6	3134.8	3328.0	3642.7	4060.2	4565.0
20°	3306.1	3306.1	3162.8	3119.2	3165.9	3156.6	3234.5	3377.8	3673.8	4128.8	4711.5
22.5°	3589.7	3630.2	3393.4	3303.0	3299.9	3324.8	3393.4	3514.9	3761.1	4225.4	4851.7
25°	3997.9	4007.3	3733.0	3639.6	3539.8	3580.4	3592.8	3714.3	3839.0	4337.6	5010.6
27.5°	4452.9	4446.6	4194.2	3960.5	3895.1	3904.4	3835.9	3916.9	3954.3	4371.8	5238.1
30°	4957.7	4901.6	4711.5	4381.2	4328.2	4269.0	4119.4	4116.3	4194.2	4565.0	5552.8
32.5°	5288.0	5216.3	5085.4	4848.6	4702.1	4708.4	4471.5	4468.4	4399.9	4776.9	5827.0
35°	5612.0	5503.0	5468.7	5225.6	5079.2	5094.8	4904.7	4879.8	4755.1	5097.9	6278.9
37.5°	6001.5	5904.9	5957.9	5774.1	5593.3	5518.5	5431.3	5400.1	5238.1	5549.7	6895.8
40°	6431.6	6400.4	6366.1	6275.7	6166.7	6172.9	6079.4	6048.3	5808.3	6095.0	7487.9
42.5°	7011.1	6892.7	6715.1	6774.3	6830.4	6889.6	6858.5	6777.4	6528.1	6649.7	8148.5
45°	7550.2	7394.4	7067.2	7085.9	7316.5	7363.3	7740.3	7730.9	7229.3	7353.9	8899.5
47.5°	7914.8	7843.1	7646.8	7625.0	7955.3	7952.2	8631.5	8631.5	7967.8	8055.0	9706.5
50°	8457.0	8270.0	8185.9	8295.0	8463.2	8578.5	9541.4	9600.6	8693.8	8787.3	10762.9
52.5°	9092.7	8859.0	8647.1	8927.5	9226.7	9301.4	10441.9	10417.0	9251.6	9638.0	12000.0
55°	9619.3	9500.9	9354.4	9516.5	10005.7	10099.2	11345.6	11115.0	9809.4	10342.2	12595.1
57.5°	10233.1	10304.8	10336.0	10295.5	10878.2	11024.6	12377.0	11716.4	10289.2	10815.9	12944.1
60°	11158.6	11202.2	11242.8	11339.3	11956.3	12162.0	13193.4	12470.5	10591.5	11090.1	12972.2
62.5°	12567.1	12398.8	12489.2	12822.6	13318.0	13551.8	14396.2	13000.2	10822.1	11255.2	12056.0
65°	14178.1	13950.6	13857.1	14287.1	15571.0	15384.0	15898.1	13396.0	10488.7	10638.2	10223.8
67.5°	15810.9	15835.8	15595.9	16459.0	18032.7	18032.7	17294.1	13586.0	9585.0	8622.1	7170.1
70°	17107.2	17185.1	17316.0	18989.3	21482.1	21859.2	19023.6	12807.0	7743.4	5739.8	3920.0
72.5°	17088.5	16854.8	17524.7	20606.5	24616.9	24302.2	19385.0	10127.2	4833.0	2810.7	1798.0
73°	16705.2	16508.9	17241.2	20590.9	24744.6	24448.6	19120.2	9335.7	4262.8	2436.8	1598.5
75°	13642.1	13286.9	14533.3	18649.6	22893.7	23121.2	16244.0	6088.8	2337.0	1501.9	1124.9
77.5°	6219.7	6375.5	7998.9	12511.0	17643.1	17911.1	10678.7	2633.1	1280.7	1053.2	828.9
80°	1997.4	2097.1	3112.9	6219.7	11058.9	11541.9	4935.8	1196.6	913.0	807.1	620.1
82.5°	763.4	760.3	1305.6	2586.3	5241.2	5549.7	1804.2	729.2	679.3	595.2	439.4
85°	268.0	280.4	492.3	1022.1	2062.8	2159.4	626.3	405.1	470.5	398.9	252.4
87.5°	93.5	96.6	174.5	370.8	710.5	751.0	174.5	162.0	233.7	230.6	127.8
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°	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4	4225.4
2.5°	4269.0	4297.0	4306.4	4418.6	4418.6	4418.6	4462.2	4462.2	4449.7	4418.6	4493.4
5°	4287.7	4337.6	4434.2	4530.8	4555.7	4577.5	4636.7	4586.8	4605.5	4574.4	4602.4
7.5°	4340.7	4409.2	4590.0	4649.2	4608.7	4655.4	4593.1	4558.8	4524.5	4537.0	4493.4
10°	4431.0	4518.3	4602.4	4711.5	4633.6	4586.8	4459.1	4427.9	4318.9	4281.5	4315.7
12.5°	4543.2	4649.2	4792.5	4752.0	4602.4	4468.4	4331.3	4200.5	4135.0	4041.5	4066.5
15°	4655.4	4776.9	4798.7	4730.2	4543.2	4375.0	4125.7	3941.8	3876.4	3792.2	3835.9
17.5°	4776.9	4892.2	4854.8	4677.2	4424.8	4169.3	3885.7	3705.0	3567.9	3514.9	3514.9
20°	4957.7	5013.7	4954.5	4590.0	4281.5	3944.9	3670.7	3465.1	3328.0	3306.1	3271.9
22.5°	5097.9	5188.2	4923.4	4462.2	4072.7	3652.0	3337.3	3259.4	3218.9	3184.6	3141.0
25°	5278.6	5275.5	4867.3	4343.8	3714.3	3303.0	3112.9	3106.7	3088.0	3075.6	3134.8
27.5°	5450.0	5378.3	4801.9	4050.9	3343.5	3038.2	2935.3	3003.9	3031.9	3013.2	3038.2
30°	5721.1	5602.7	4708.4	3739.3	3016.3	2770.2	2788.9	2882.4	2929.1	2957.1	2919.8
32.5°	6007.8	5827.0	4515.2	3415.2	2726.6	2601.9	2645.5	2742.1	2798.2	2829.4	2863.7
35°	6422.2	6001.5	4318.9	2991.4	2517.8	2499.1	2524.0	2577.0	2658.0	2679.8	2689.2
37.5°	6933.2	6266.4	4054.0	2651.8	2355.7	2377.6	2402.5	2421.2	2424.3	2464.8	2449.2
40°	7444.3	6490.8	3667.6	2327.7	2187.5	2305.9	2293.4	2259.1	2231.1	2193.7	2184.4
42.5°	7893.0	6687.1	3237.6	2053.5	2037.9	2231.1	2190.6	2103.3	2037.9	2009.9	1963.1
45°	8397.8	6964.4	2804.5	1882.1	1922.6	2140.7	2128.3	1994.3	1910.1	1810.4	1798.0
47.5°	9052.2	7254.2	2390.0	1704.5	1813.5	2106.5	2112.7	1941.3	1819.8	1685.8	1667.1
50°	9890.4	7671.7	2075.3	1629.7	1748.1	2056.6	2065.9	1869.6	1710.7	1573.6	1561.1
52.5°	10694.3	8098.6	1813.5	1514.4	1704.5	1997.4	2019.2	1804.2	1620.4	1449.0	1458.3
55°	11099.4	7942.8	1589.2	1430.3	1604.8	1900.8	1981.8	1757.5	1483.2	1364.8	1361.7
57.5°	11189.8	7559.6	1411.6	1343.0	1520.6	1798.0	1919.5	1617.2	1420.9	1321.2	1308.7
60°	10893.8	6889.6	1271.4	1249.5	1414.7	1692.0	1776.2	1542.5	1358.6	1277.6	1258.9
62.5°	10164.6	6194.7	1174.8	1205.9	1324.3	1576.7	1685.8	1489.5	1299.4	1243.3	1202.8
65°	8335.5	5094.8	1096.9	1121.8	1230.8	1464.5	1629.7	1430.3	1246.4	1193.5	1190.3
67.5°	5774.1	3511.8	1034.5	1081.3	1156.1	1383.5	1573.6	1364.8	1177.9	1159.2	1134.2
70°	2957.1	1872.8	953.5	990.9	1075.0	1280.7	1473.9	1296.3	1106.2	1103.1	1071.9
72.5°	1498.8	1096.9	860.0	916.1	975.3	1146.7	1349.3	1205.9	1015.8	981.6	931.7
73°	1296.3	1015.8	844.5	894.3	950.4	1109.3	1311.9	1184.1	1003.4	953.5	906.8
75°	944.2	800.8	757.2	807.1	850.7	1000.3	1187.2	1084.4	922.4	869.4	825.8
77.5°	707.3	617.0	629.4	685.5	722.9	863.1	1056.3	981.6	835.1	763.4	744.7
80°	520.4	470.5	520.4	573.4	601.4	760.3	962.9	850.7	704.2	623.2	607.6
82.5°	370.8	342.8	402.0	436.2	448.7	629.4	866.3	679.3	532.8	426.9	392.6
85°	211.9	208.8	271.1	268.0	277.3	367.7	570.2	451.8	342.8	261.7	255.5
87.5°	93.5	102.8	137.1	109.1	115.3	174.5	243.1	168.3	140.2	77.9	59.2
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)