

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: P478454

Luminaire Tested: **IFLD-L-SA7A-727-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478454
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

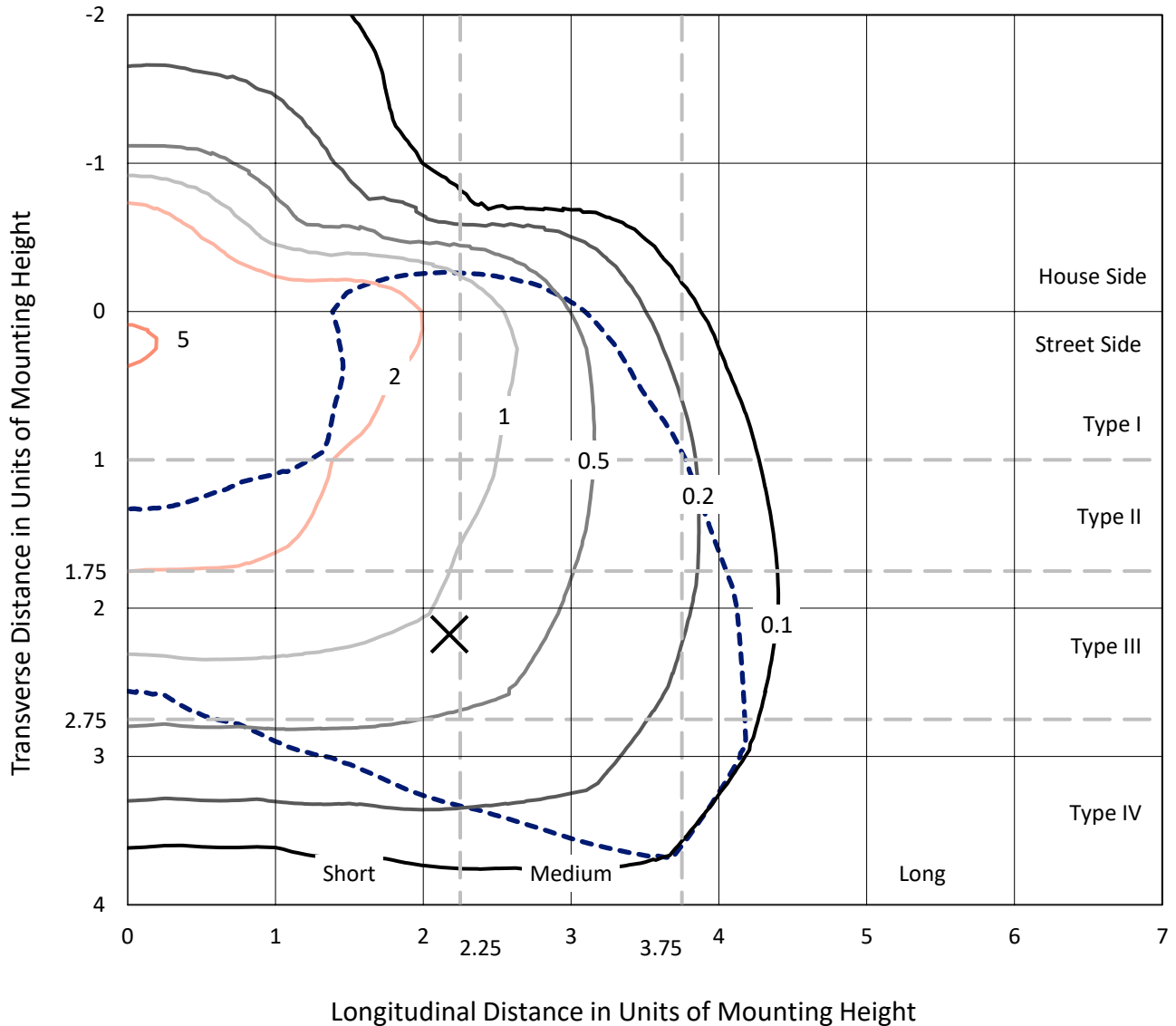
Lumens per Lamp: N/A
Luminaire Lumens: 26458.8 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
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

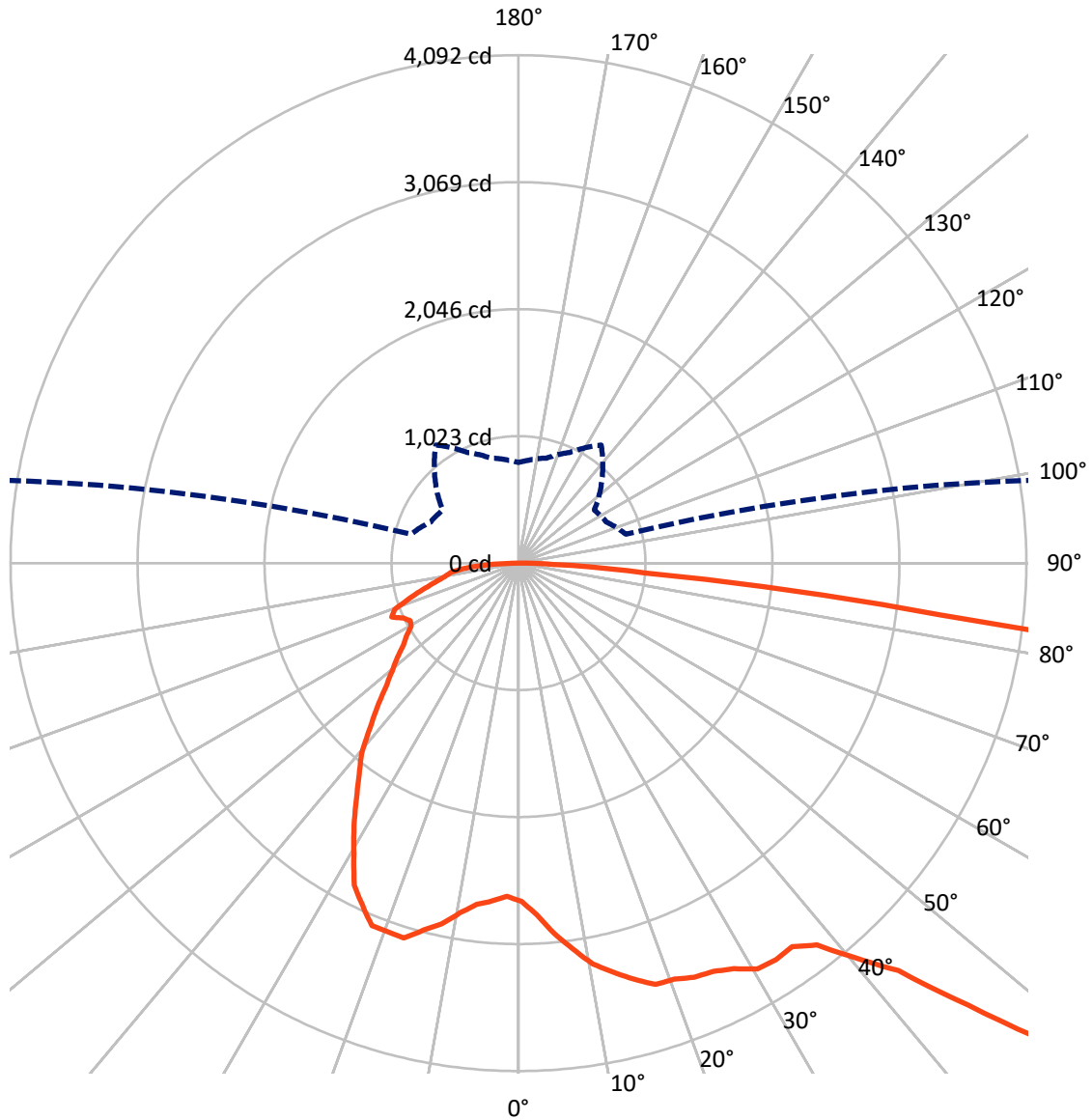
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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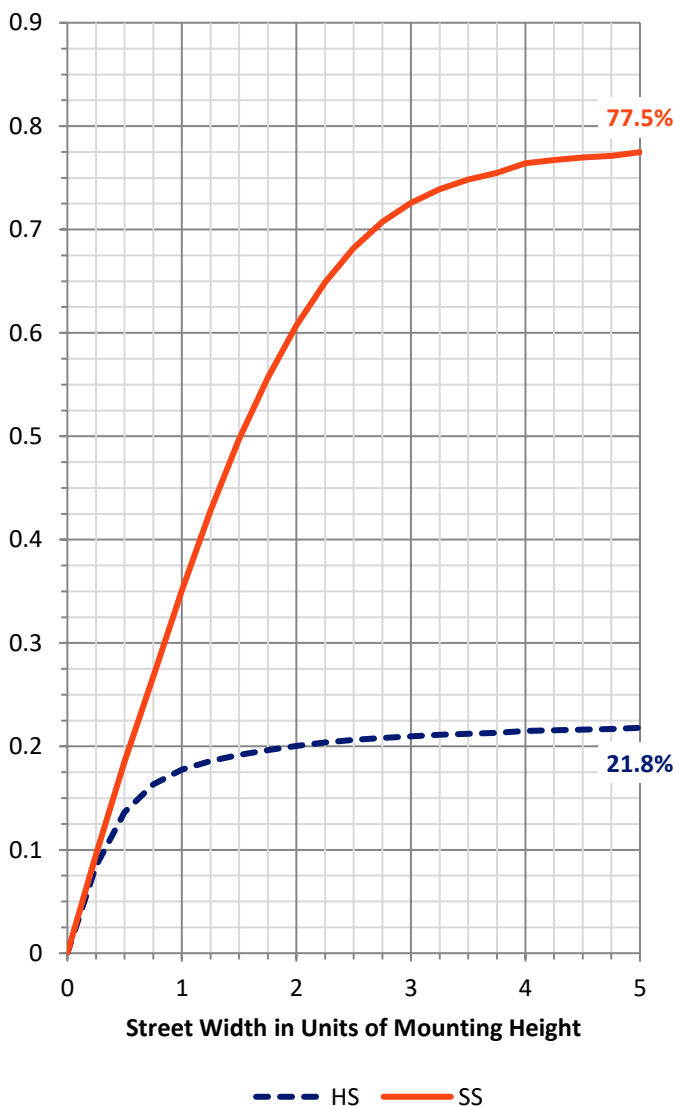
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5889.9	0.0	5889.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20568.9	0.0	20568.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	26458.8	0.0	26458.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	1.1
10°-20°	927.7	3.5
20°-30°	1566.5	5.9
30°-40°	2167.8	8.2
40°-50°	3100.9	11.7
50°-60°	5001.4	18.9
60°-70°	7376.3	27.9
70°-80°	5356.5	20.2
80°-90°	682.8	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°	26458.8	100.0
0°-180°	26458.8	100.0

Coefficient of Utilization



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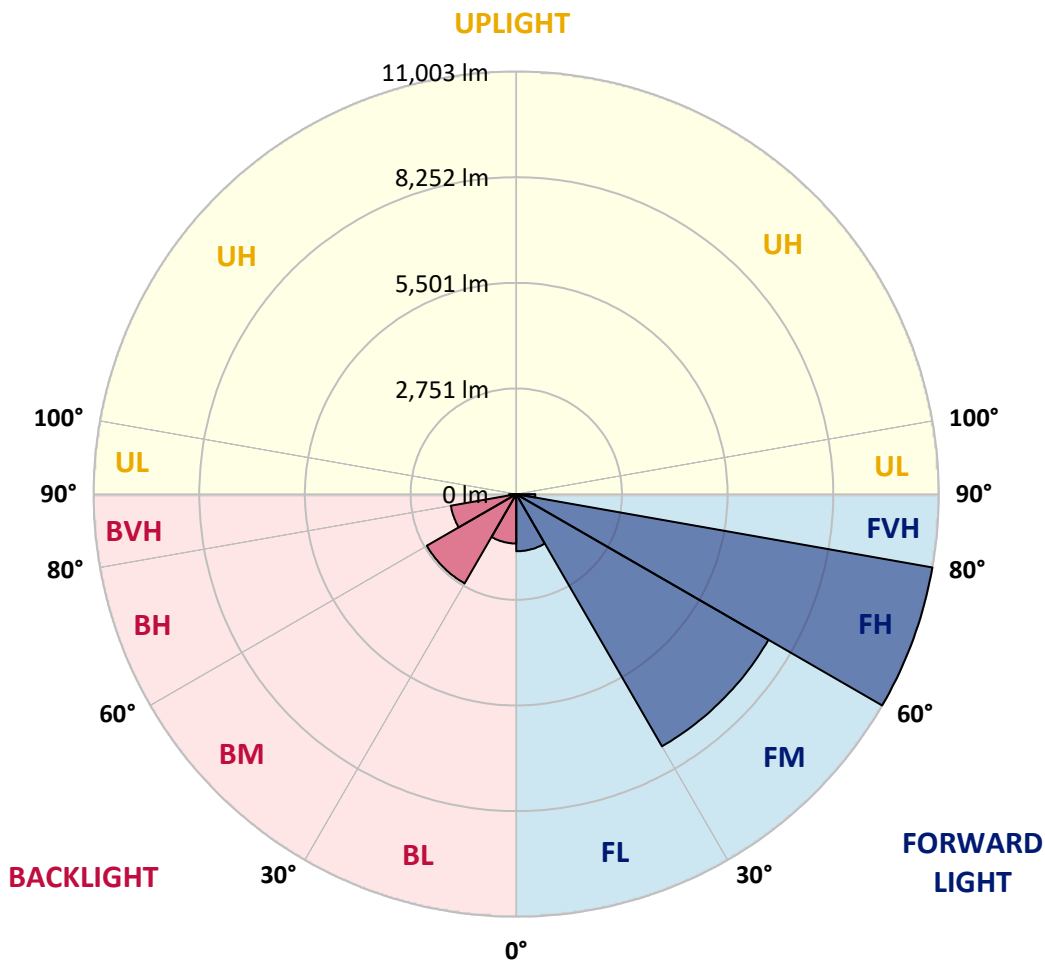
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.0	5.6			
FM (30°-60°)	7582.2	28.7			
FH (60°-80°)	11002.8	41.6			G4/12000
FVH (80°-90°)	497.0	1.9			G3/500
BL (0°-30°)	1286.0	4.9	B3/2500		
BM (30°-60°)	2688.0	10.2	B3/5000		
BH (60°-80°)	1730.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	185.8	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°	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8
2.5°	2870.3	2887.4	2870.3	2867.4	2838.9	2818.9	2836.1	2810.4	2781.8	2770.4	2744.8
5°	3132.8	3135.6	3104.2	3107.1	3047.2	2984.4	2995.8	2918.8	2836.1	2804.7	2753.3
7.5°	3401.0	3369.6	3323.9	3309.7	3215.5	3147.0	3138.5	3070.0	2941.6	2870.3	2799.0
10°	3575.0	3586.4	3512.3	3449.5	3369.6	3286.9	3284.0	3155.6	3081.4	2975.9	2884.6
12.5°	3729.1	3731.9	3669.2	3569.3	3469.5	3366.7	3381.0	3323.9	3198.4	3098.5	3007.2
15°	3848.9	3831.8	3763.3	3672.0	3566.5	3486.6	3478.0	3429.5	3323.9	3241.2	3090.0
17.5°	3883.2	3874.6	3806.1	3709.1	3606.4	3546.5	3569.3	3489.4	3446.6	3372.4	3226.9
20°	3817.5	3797.6	3786.2	3677.7	3603.6	3597.8	3577.9	3595.0	3523.7	3455.2	3349.6
22.5°	3697.7	3689.1	3683.4	3597.8	3563.6	3589.3	3623.5	3649.2	3637.8	3572.2	3452.3
25°	3575.0	3615.0	3577.9	3537.9	3586.4	3652.1	3643.5	3726.2	3726.2	3706.3	3606.4
27.5°	3660.6	3634.9	3606.4	3586.4	3603.6	3706.3	3700.6	3800.4	3837.5	3800.4	3686.3
30°	3874.6	3848.9	3766.2	3677.7	3654.9	3766.2	3794.7	3883.2	3900.3	3809.0	3712.0
32.5°	4276.9	4262.6	4131.4	3871.8	3731.9	3794.7	3809.0	3908.8	3894.6	3837.5	3797.6
35°	4873.2	4824.7	4642.1	4202.7	3894.6	3831.8	3794.7	3874.6	3928.8	3900.3	3863.2
37.5°	5526.6	5472.4	5247.0	4690.6	4188.5	3931.7	3903.1	3968.8	4031.5	4017.3	3940.2
40°	6151.4	6151.4	5948.9	5301.2	4625.0	4174.2	4179.9	4105.7	4162.8	4137.1	4151.4
42.5°	6767.7	6744.9	6662.2	6017.3	5092.9	4579.3	4488.0	4302.6	4405.3	4396.7	4416.7
45°	7392.6	7375.4	7352.6	6685.0	5763.4	5127.1	5078.6	4744.8	4839.0	4799.0	4884.6
47.5°	7891.9	7911.8	7911.8	7429.7	6479.6	5857.6	5786.2	5258.4	5438.1	5458.1	5478.1
50°	8317.0	8325.6	8317.0	8140.1	7278.4	6693.5	6548.0	6011.6	6191.4	6348.3	6530.9
52.5°	8904.7	8916.2	8876.2	8807.7	8362.6	7572.3	7409.7	6813.4	7181.4	7346.9	7675.0
55°	9629.5	9543.9	9469.7	9521.0	9404.1	8539.5	8371.2	7640.8	8194.3	8414.0	9070.2
57.5°	9763.5	9837.7	10026.0	10434.0	10602.4	9481.1	9384.1	8656.5	9338.4	9529.6	10625.2
60°	10237.2	10114.5	10576.7	11461.2	11649.5	10707.9	10608.1	9769.3	10476.8	10676.6	12060.4
62.5°	10548.2	10542.5	11227.2	12277.2	12705.2	11980.5	11777.9	11215.8	11706.6	11900.6	13623.9
65°	10456.9	10539.6	11755.1	12756.5	13586.8	13427.0	13310.0	12459.8	13107.5	13090.3	14642.5
67.5°	9623.7	9857.7	11421.2	13101.8	14899.3	15190.3	15153.2	14208.8	14245.9	13883.5	15096.1
70°	8468.2	8388.3	10008.9	12742.3	15555.5	17281.7	17273.1	15509.8	15270.2	14057.6	13795.1
72°	6505.2	6416.8	7749.2	10941.9	15210.3	18117.6	18374.4	16411.4	15258.8	13335.7	11395.6
72.5°	5906.1	5829.0	7155.8	10299.9	14827.9	18334.5	18214.6	16445.7	15138.9	12996.2	10645.2
75°	2719.1	2630.6	3575.0	6305.5	11566.8	16246.0	16654.0	15390.0	13221.6	10345.6	6376.8
77.5°	810.3	784.6	1149.8	2545.0	6722.1	11969.1	12126.0	11612.4	9230.0	5666.4	2365.3
80°	450.8	453.7	593.5	953.0	2955.9	6918.9	7483.9	7172.9	4528.0	1871.7	787.5
82.5°	251.1	265.3	370.9	564.9	1358.1	3175.6	3418.1	3295.4	1637.7	878.8	430.8
85°	131.2	137.0	194.0	302.4	770.4	1004.3	1032.8	1107.0	850.2	599.2	231.1
87.5°	51.4	51.4	71.3	125.5	285.3	311.0	279.6	339.5	487.9	388.0	114.1
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°	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8
2.5°	2767.6	2744.8	2741.9	2704.8	2716.2	2684.8	2687.7	2682.0	2684.8	2679.1	2664.9
5°	2753.3	2736.2	2687.7	2719.1	2690.5	2730.5	2761.9	2750.5	2759.0	2756.2	2759.0
7.5°	2773.3	2750.5	2744.8	2727.6	2753.3	2770.4	2796.1	2867.4	2861.7	2870.3	2887.4
10°	2833.2	2807.5	2790.4	2816.1	2801.8	2856.0	2884.6	2921.6	2987.3	2990.1	2955.9
12.5°	2950.2	2933.1	2898.8	2904.5	2953.0	2970.2	2987.3	3010.1	3052.9	3044.3	3075.7
15°	3084.3	3047.2	3027.2	3021.5	3032.9	3052.9	3050.0	3072.9	3095.7	3115.7	3107.1
17.5°	3181.3	3132.8	3138.5	3167.0	3164.2	3158.5	3121.4	3110.0	3121.4	3132.8	3127.1
20°	3281.1	3286.9	3244.1	3218.4	3207.0	3149.9	3121.4	3087.1	3052.9	3070.0	3095.7
22.5°	3406.7	3381.0	3318.2	3241.2	3184.1	3149.9	3061.5	3001.5	3001.5	3018.7	3010.1
25°	3549.3	3495.1	3386.7	3246.9	3175.6	3030.1	2967.3	2958.7	2935.9	2961.6	2973.0
27.5°	3660.6	3612.1	3463.7	3226.9	3030.1	2913.1	2876.0	2864.6	2901.7	2904.5	2950.2
30°	3706.3	3692.0	3475.2	3175.6	2881.7	2693.4	2670.6	2721.9	2761.9	2821.8	2824.6
32.5°	3766.2	3771.9	3492.3	3055.7	2687.7	2499.4	2465.1	2527.9	2642.0	2690.5	2727.6
35°	3866.0	3894.6	3478.0	2907.4	2482.3	2302.5	2296.8	2313.9	2425.2	2510.8	2559.3
37.5°	4040.1	4034.4	3475.2	2730.5	2319.6	2131.3	2085.7	2091.4	2165.6	2236.9	2228.3
40°	4274.0	4251.2	3466.6	2499.4	2108.5	1985.8	1908.8	1880.2	1874.5	1854.6	1860.3
42.5°	4593.6	4548.0	3463.7	2265.4	1917.3	1786.1	1731.9	1657.7	1603.5	1500.8	1506.5
45°	5038.7	4958.8	3389.6	2045.7	1729.0	1620.6	1537.9	1483.6	1366.7	1238.3	1238.3
47.5°	5726.3	5466.7	3392.4	1803.2	1546.4	1458.0	1400.9	1306.8	1181.2	1078.5	1067.1
50°	6739.2	6145.7	3295.4	1612.0	1398.1	1338.1	1278.2	1169.8	1050.0	978.6	987.2
52.5°	8045.9	7158.6	3292.6	1440.9	1281.1	1238.3	1172.7	1075.6	987.2	941.5	924.4
55°	9603.8	8499.6	3395.3	1301.0	1161.2	1138.4	1109.9	1030.0	944.4	904.5	901.6
57.5°	11198.7	9809.2	3560.8	1201.2	1058.5	1075.6	1055.7	992.9	924.4	878.8	873.1
60°	12616.7	10847.8	3226.9	1081.4	967.2	1004.3	1032.8	978.6	941.5	938.7	918.7
62.5°	13686.7	11292.8	2453.7	990.1	918.7	987.2	1064.2	1098.5	1081.4	1104.2	1107.0
65°	14077.5	11024.7	1689.1	941.5	881.6	1027.1	1198.3	1186.9	1087.1	1044.3	1067.1
67.5°	13529.7	9937.6	1252.5	884.5	856.0	1109.9	1275.4	1132.7	981.5	975.8	958.7
70°	11635.2	8422.6	1021.4	824.6	813.2	1064.2	1241.1	1050.0	924.4	887.3	870.2
72°	9270.0	6559.4	895.9	781.8	744.7	950.1	1161.2	984.3	875.9	830.3	810.3
72.5°	8462.5	6080.1	878.8	761.8	730.4	924.4	1121.3	964.4	864.5	824.6	793.2
75°	4642.1	3112.8	773.2	699.0	616.3	798.9	1038.6	904.5	816.0	758.9	753.2
77.5°	1726.2	1206.9	667.6	619.1	533.5	690.5	944.4	858.8	741.8	670.5	656.2
80°	661.9	636.3	545.0	522.1	447.9	604.9	870.2	770.4	630.6	559.2	536.4
82.5°	402.3	370.9	413.7	408.0	342.4	550.7	818.9	721.9	559.2	453.7	439.4
85°	219.7	219.7	288.2	276.8	239.7	439.4	619.1	479.3	353.8	291.0	296.7
87.5°	97.0	114.1	154.1	145.5	131.2	248.2	302.4	253.9	176.9	119.8	128.4
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)