

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: P478337

Luminaire Tested: **IFLD-L-SA7A-830-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478337
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

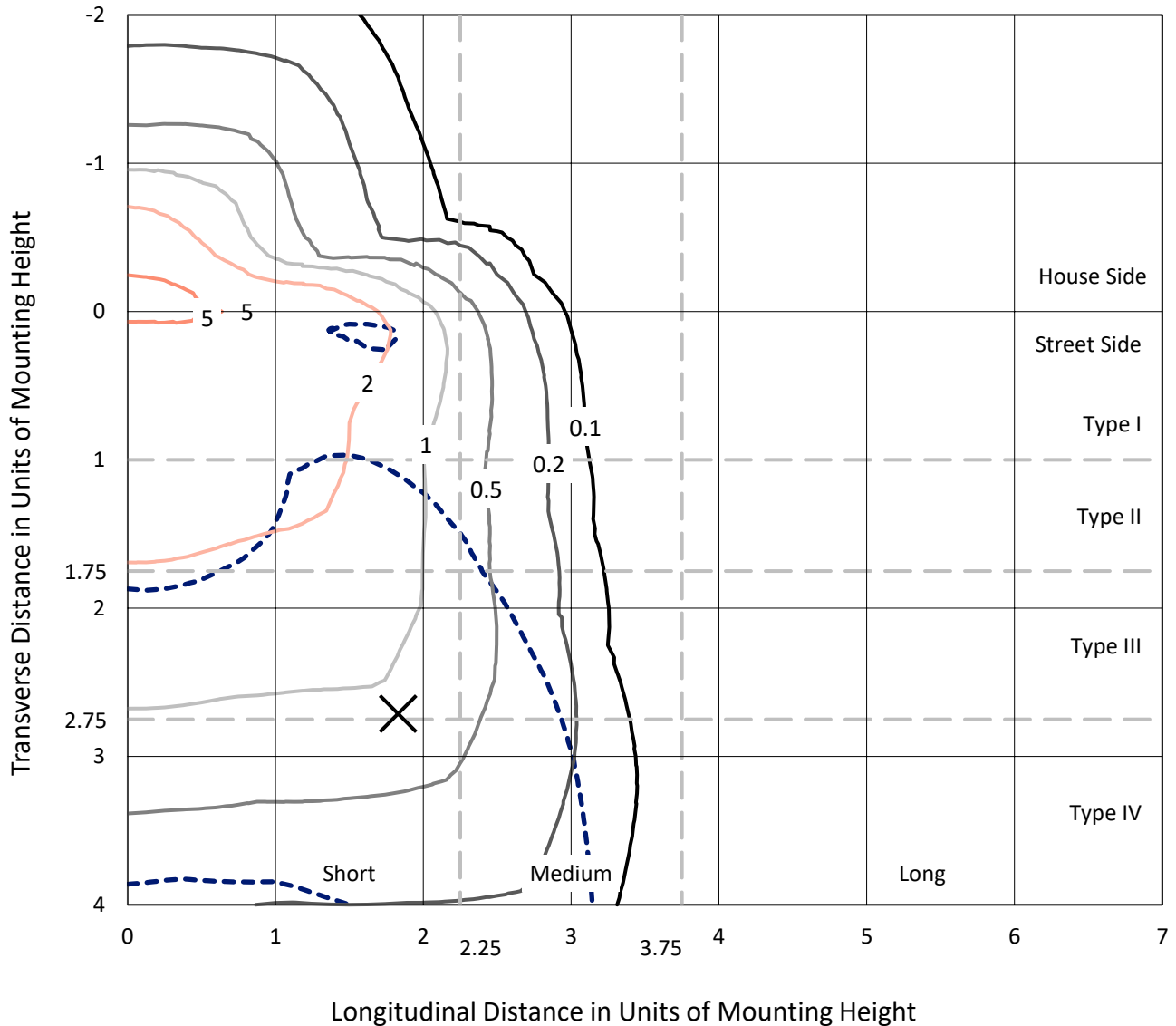
Lumens per Lamp: N/A
Luminaire Lumens: 25480.5 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

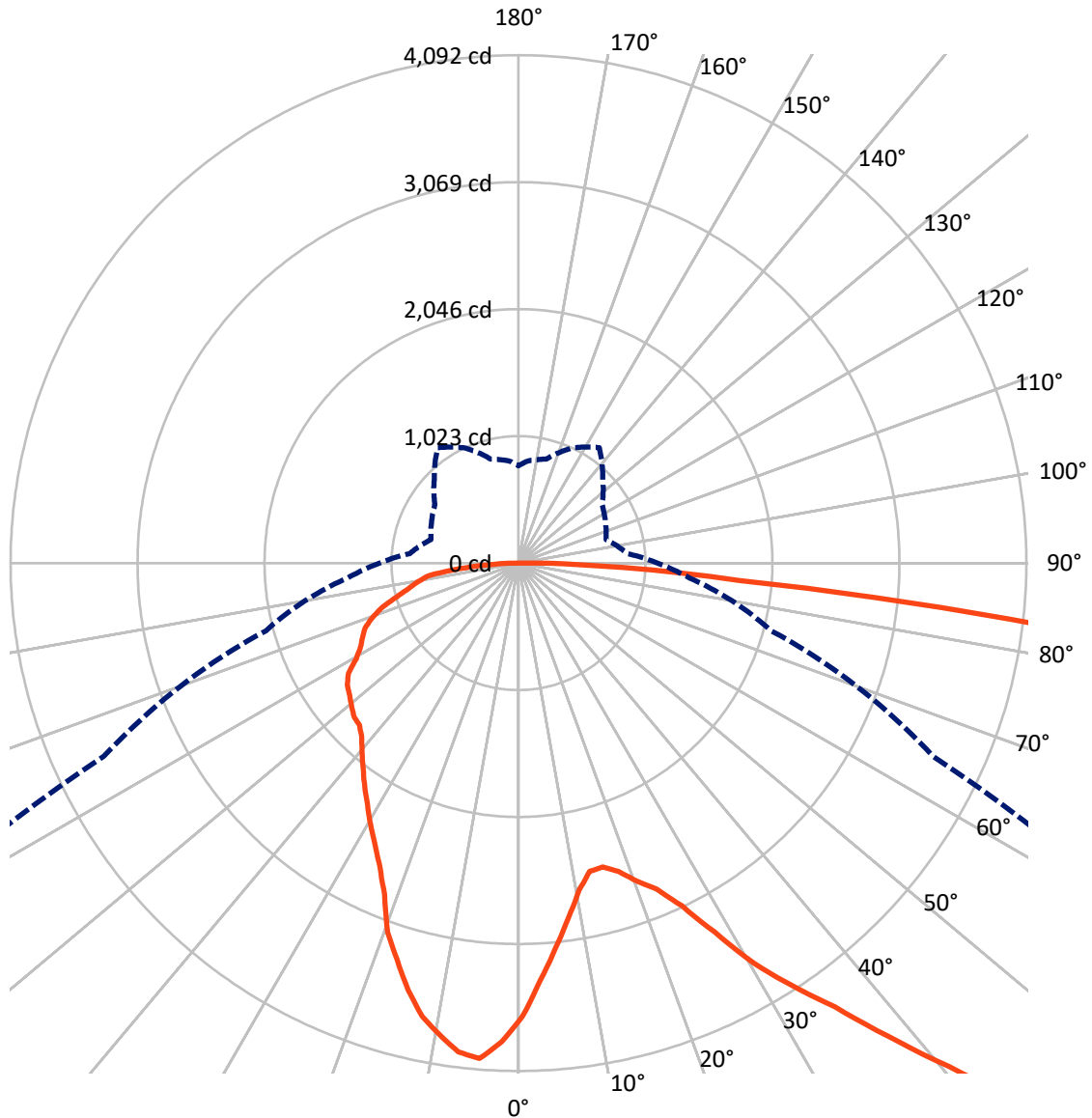
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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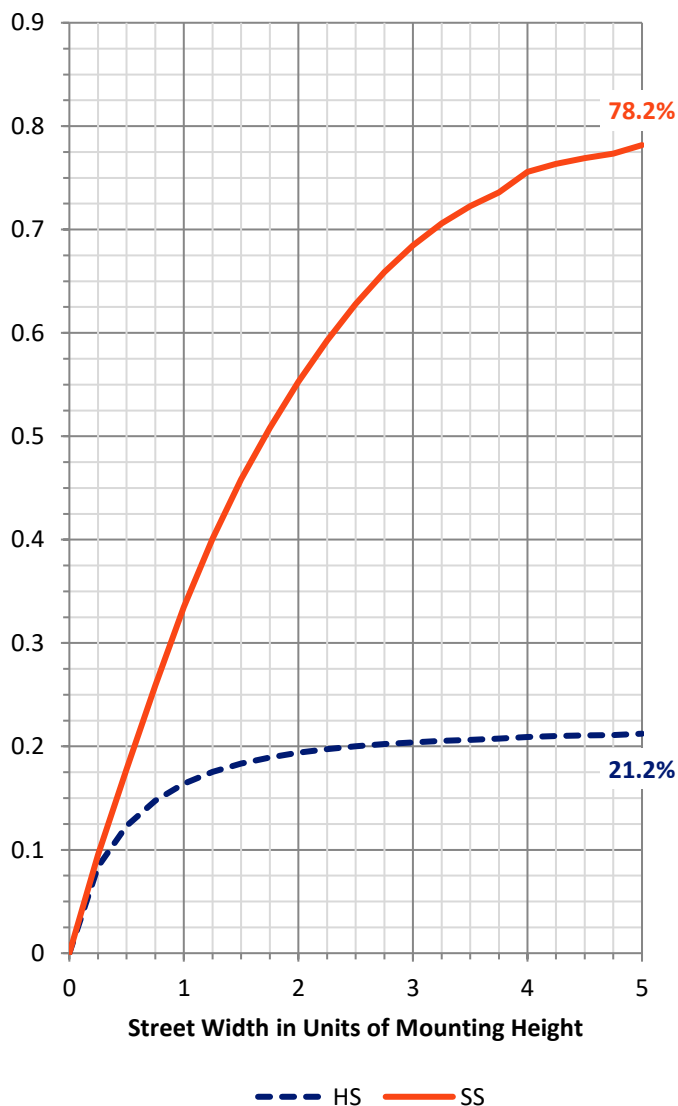
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5504.1	0.0	5504.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	19976.4	0.0	19976.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	25480.5	0.0	25480.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	1.3
10°-20°	943.6	3.7
20°-30°	1553.0	6.1
30°-40°	2322.4	9.1
40°-50°	3442.9	13.5
50°-60°	4961.6	19.5
60°-70°	6331.7	24.8
70°-80°	4927.1	19.3
80°-90°	661.0	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°	25480.5	100.0
0°-180°	25480.5	100.0

Coefficient of Utilization



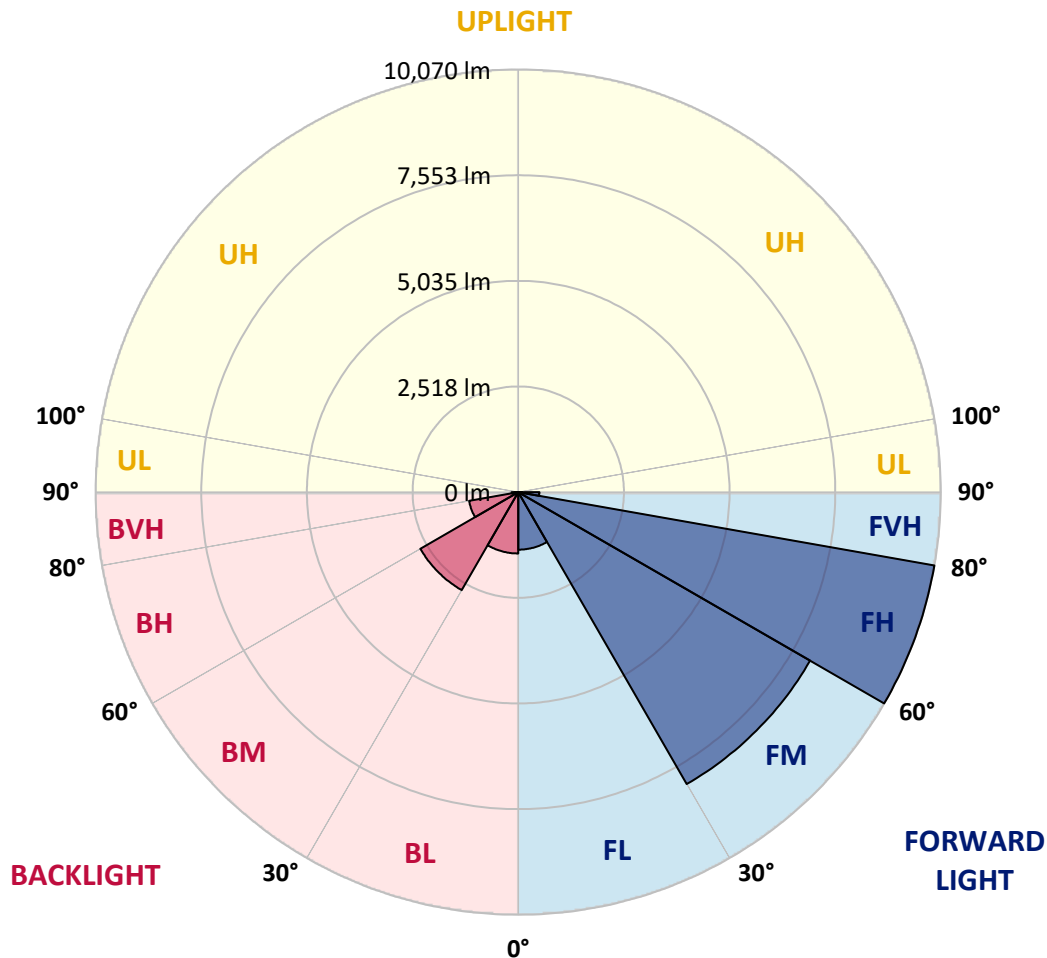
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1371.3	5.4			
FM (30°-60°)	8031.6	31.5			
FH (60°-80°)	10070.4	39.5			G4/12000
FVH (80°-90°)	503.1	2.0			G4/750
BL (0°-30°)	1462.4	5.7	B3/2500		
BM (30°-60°)	2695.4	10.6	B3/5000		
BH (60°-80°)	1188.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	157.9	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°	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0
2.5°	3273.2	3284.0	3319.0	3327.1	3364.8	3343.2	3389.0	3469.8	3515.6	3583.0	3663.8
5°	3014.6	2968.8	2990.3	3073.8	3116.9	3127.7	3176.2	3313.6	3399.8	3499.5	3650.3
7.5°	2710.1	2702.1	2745.2	2799.0	2885.3	2893.3	3001.1	3122.3	3300.1	3521.0	3698.8
10°	2502.7	2537.7	2562.0	2618.5	2677.8	2677.8	2815.2	3025.3	3227.4	3440.2	3709.6
12.5°	2491.9	2470.4	2475.8	2505.4	2548.5	2602.4	2731.7	2920.3	3176.2	3424.0	3755.4
15°	2527.0	2535.0	2486.5	2524.3	2540.4	2559.3	2702.1	2914.9	3143.9	3480.6	3833.5
17.5°	2712.8	2667.0	2591.6	2556.6	2613.2	2613.2	2710.1	2877.2	3149.3	3510.3	3946.7
20°	2858.3	2858.3	2734.4	2696.7	2737.1	2729.0	2796.3	2920.3	3176.2	3569.5	4073.3
22.5°	3103.5	3138.5	2933.7	2855.6	2852.9	2874.5	2933.7	3038.8	3251.6	3653.0	4194.5
25°	3456.4	3464.5	3227.4	3146.6	3060.4	3095.4	3106.2	3211.2	3319.0	3750.0	4331.9
27.5°	3849.7	3844.3	3626.1	3424.0	3367.5	3375.6	3316.3	3386.3	3418.7	3779.7	4528.6
30°	4286.1	4237.6	4073.3	3787.7	3741.9	3690.7	3561.4	3558.7	3626.1	3946.7	4800.7
32.5°	4571.7	4509.7	4396.6	4191.8	4065.2	4070.6	3865.9	3863.2	3803.9	4129.9	5037.7
35°	4851.9	4757.6	4727.9	4517.8	4391.2	4404.7	4240.3	4218.8	4111.0	4407.3	5428.4
37.5°	5188.6	5105.1	5150.9	4991.9	4835.7	4771.0	4695.6	4668.7	4528.6	4798.0	5961.8
40°	5560.4	5533.4	5503.8	5425.7	5331.4	5336.8	5256.0	5229.0	5021.6	5269.4	6473.6
42.5°	6061.5	5959.1	5805.5	5856.7	5905.2	5956.4	5929.4	5859.4	5643.9	5748.9	7044.8
45°	6527.5	6392.8	6109.9	6126.1	6325.5	6365.9	6691.8	6683.8	6250.0	6357.8	7694.0
47.5°	6842.7	6780.7	6611.0	6592.2	6877.7	6875.0	7462.3	7462.3	6888.5	6963.9	8391.7
50°	7311.5	7149.8	7077.1	7171.4	7316.8	7416.5	8249.0	8300.1	7516.2	7597.0	9305.0
52.5°	7861.0	7659.0	7475.8	7718.2	7976.9	8041.5	9027.5	9006.0	7998.4	8332.5	10374.5
55°	8316.3	8213.9	8087.3	8227.4	8650.4	8731.2	9808.8	9609.4	8480.6	8941.3	10889.1
57.5°	8847.0	8909.0	8935.9	8900.9	9404.7	9531.3	10700.5	10129.4	8895.5	9350.8	11190.8
60°	9647.1	9684.9	9719.9	9803.4	10336.8	10514.6	11406.3	10781.3	9156.8	9587.9	11215.0
62.5°	10864.8	10719.3	10797.5	11085.7	11514.1	11716.1	12446.2	11239.3	9356.2	9730.6	10423.0
65°	12257.6	12060.9	11980.1	12351.9	13461.8	13300.2	13744.7	11581.4	9067.9	9197.2	8838.9
67.5°	13669.2	13690.8	13483.4	14229.6	15590.1	15590.1	14951.6	11745.7	8286.7	7454.2	6198.8
70°	14789.9	14857.3	14970.4	16417.1	18572.3	18898.3	16446.7	11072.2	6694.5	4962.3	3389.0
72.5°	14773.8	14571.7	15150.9	17815.3	21282.4	21010.3	16759.2	8755.4	4178.4	2430.0	1554.4
73°	14442.4	14272.7	14905.8	17801.8	21392.9	21137.0	16530.2	8071.2	3685.4	2106.7	1382.0
75°	11794.2	11487.1	12564.7	16123.5	19792.7	19989.3	14043.7	5264.0	2020.5	1298.5	972.5
77.5°	5377.2	5511.9	6915.4	10816.3	15253.3	15485.0	9232.3	2276.4	1107.2	910.6	716.6
80°	1726.8	1813.0	2691.3	5377.2	9560.9	9978.5	4267.3	1034.5	789.3	697.7	536.1
82.5°	660.0	657.3	1128.8	2236.0	4531.3	4798.0	1559.8	630.4	587.3	514.5	379.9
85°	231.7	242.5	425.6	883.6	1783.4	1866.9	541.5	350.2	406.8	344.8	218.2
87.5°	80.8	83.5	150.9	320.6	614.2	649.2	150.9	140.1	202.0	199.4	110.5
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°	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0	3653.0
2.5°	3690.7	3715.0	3723.1	3820.1	3820.1	3820.1	3857.8	3857.8	3847.0	3820.1	3884.7
5°	3706.9	3750.0	3833.5	3917.0	3938.6	3957.5	4008.6	3965.5	3981.7	3954.8	3979.0
7.5°	3752.7	3812.0	3968.2	4019.4	3984.4	4024.8	3970.9	3941.3	3911.7	3922.4	3884.7
10°	3830.8	3906.3	3979.0	4073.3	4005.9	3965.5	3855.1	3828.1	3733.9	3701.5	3731.2
12.5°	3927.8	4019.4	4143.3	4108.3	3979.0	3863.2	3744.6	3631.5	3574.9	3494.1	3515.6
15°	4024.8	4129.9	4148.7	4089.5	3927.8	3782.3	3566.8	3407.9	3351.3	3278.6	3316.3
17.5°	4129.9	4229.5	4197.2	4043.7	3825.4	3604.5	3359.4	3203.1	3084.6	3038.8	3038.8
20°	4286.1	4334.6	4283.4	3968.2	3701.5	3410.6	3173.5	2995.7	2877.2	2858.3	2828.7
22.5°	4407.3	4485.5	4256.5	3857.8	3521.0	3157.3	2885.3	2817.9	2782.9	2753.2	2715.5
25°	4563.6	4560.9	4208.0	3755.4	3211.2	2855.6	2691.3	2685.9	2669.7	2659.0	2710.1
27.5°	4711.8	4649.8	4151.4	3502.2	2890.6	2626.6	2537.7	2597.0	2621.2	2605.1	2626.6
30°	4946.1	4843.8	4070.6	3232.8	2607.8	2394.9	2411.1	2491.9	2532.3	2556.6	2524.3
32.5°	5194.0	5037.7	3903.6	2952.6	2357.2	2249.5	2287.2	2370.7	2419.2	2446.1	2475.8
35°	5552.3	5188.6	3733.9	2586.2	2176.7	2160.6	2182.1	2227.9	2298.0	2316.8	2324.9
37.5°	5994.1	5417.6	3504.9	2292.6	2036.6	2055.5	2077.1	2093.2	2095.9	2130.9	2117.5
40°	6435.9	5611.6	3170.8	2012.4	1891.2	1993.5	1982.8	1953.1	1928.9	1896.6	1888.5
42.5°	6823.8	5781.3	2799.0	1775.3	1761.9	1928.9	1893.9	1818.4	1761.9	1737.6	1697.2
45°	7260.3	6021.0	2424.6	1627.2	1662.2	1850.8	1840.0	1724.1	1651.4	1565.2	1554.4
47.5°	7826.0	6271.6	2066.3	1473.6	1567.9	1821.1	1826.5	1678.3	1573.3	1457.4	1441.3
50°	8550.7	6632.6	1794.2	1409.0	1511.3	1778.0	1786.1	1616.4	1479.0	1360.5	1349.7
52.5°	9245.7	7001.6	1567.9	1309.3	1473.6	1726.8	1745.7	1559.8	1400.9	1252.7	1260.8
55°	9595.9	6866.9	1373.9	1236.5	1387.4	1643.3	1713.4	1519.4	1282.3	1180.0	1177.3
57.5°	9674.1	6535.6	1220.4	1161.1	1314.7	1554.4	1659.5	1398.2	1228.5	1142.2	1131.5
60°	9418.1	5956.4	1099.1	1080.3	1223.1	1462.8	1535.6	1333.5	1174.6	1104.5	1088.4
62.5°	8787.8	5355.6	1015.6	1042.6	1144.9	1363.2	1457.4	1287.7	1123.4	1074.9	1039.9
65°	7206.4	4404.7	948.3	969.8	1064.1	1266.2	1409.0	1236.5	1077.6	1031.8	1029.1
67.5°	4991.9	3036.1	894.4	934.8	999.5	1196.1	1360.5	1180.0	1018.3	1002.2	980.6
70°	2556.6	1619.1	824.4	856.7	929.4	1107.2	1274.3	1120.7	956.4	953.7	926.7
72.5°	1295.8	948.3	743.5	792.0	843.2	991.4	1166.5	1042.6	878.2	848.6	805.5
73°	1120.7	878.2	730.1	773.2	821.7	959.1	1134.2	1023.7	867.5	824.4	783.9
75°	816.3	692.4	654.6	697.7	735.5	864.8	1026.4	937.5	797.4	751.6	713.9
77.5°	611.5	533.4	544.2	592.7	625.0	746.2	913.3	848.6	722.0	660.0	643.9
80°	449.9	406.8	449.9	495.7	519.9	657.3	832.4	735.5	608.8	538.8	525.3
82.5°	320.6	296.3	347.5	377.2	387.9	544.2	748.9	587.3	460.7	369.1	339.4
85°	183.2	180.5	234.4	231.7	239.8	317.9	493.0	390.6	296.3	226.3	220.9
87.5°	80.8	88.9	118.5	94.3	99.7	150.9	210.1	145.5	121.2	67.3	51.2
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)