

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: P477050

Luminaire Tested: **IFLD-L-SA7A-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

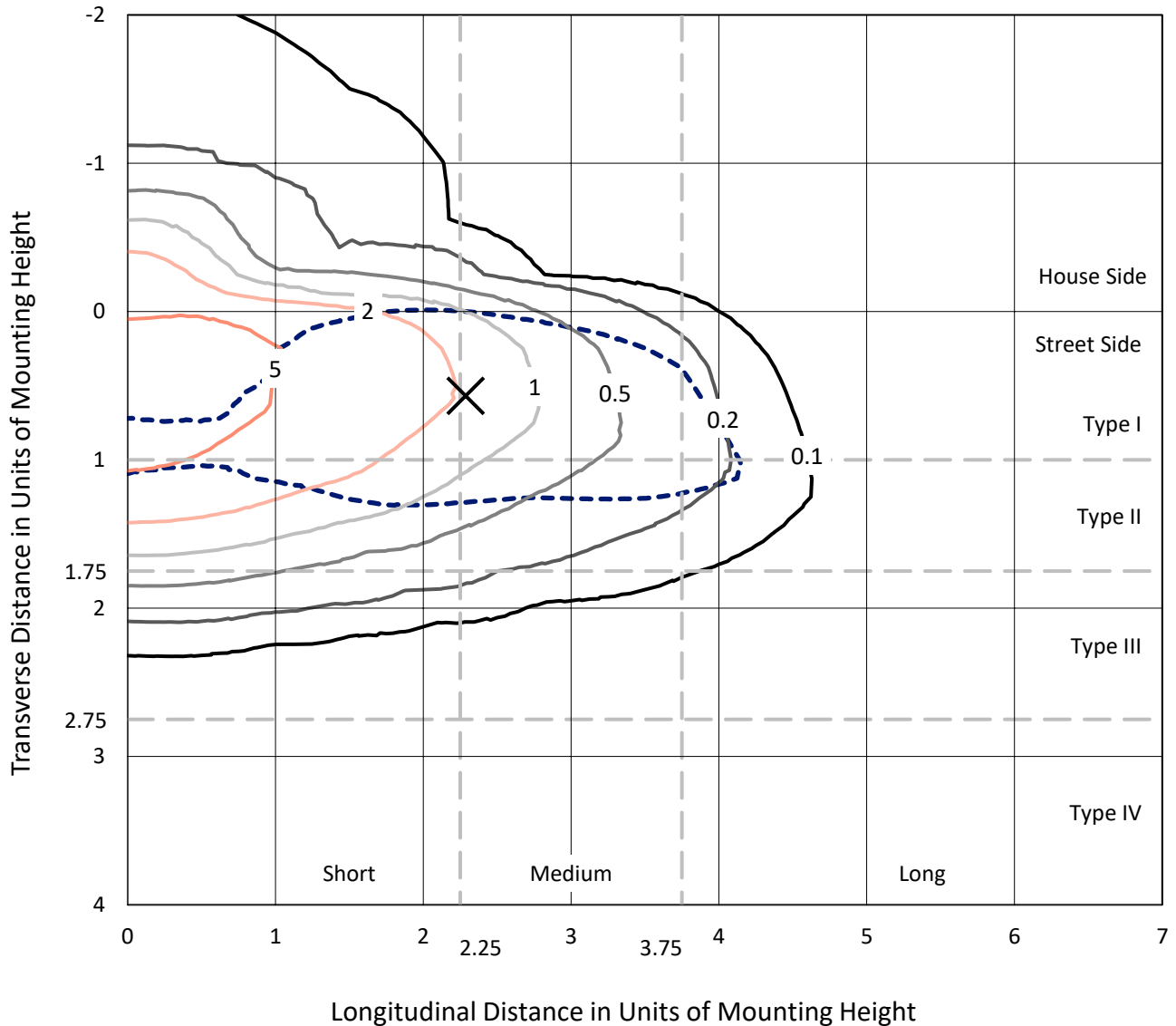
Lumens per Lamp: N/A
Luminaire Lumens: 32197.3 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

REPORT NUMBER: P477050
 CATALOG NUMBER: IFLD-L-SA7A-750-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

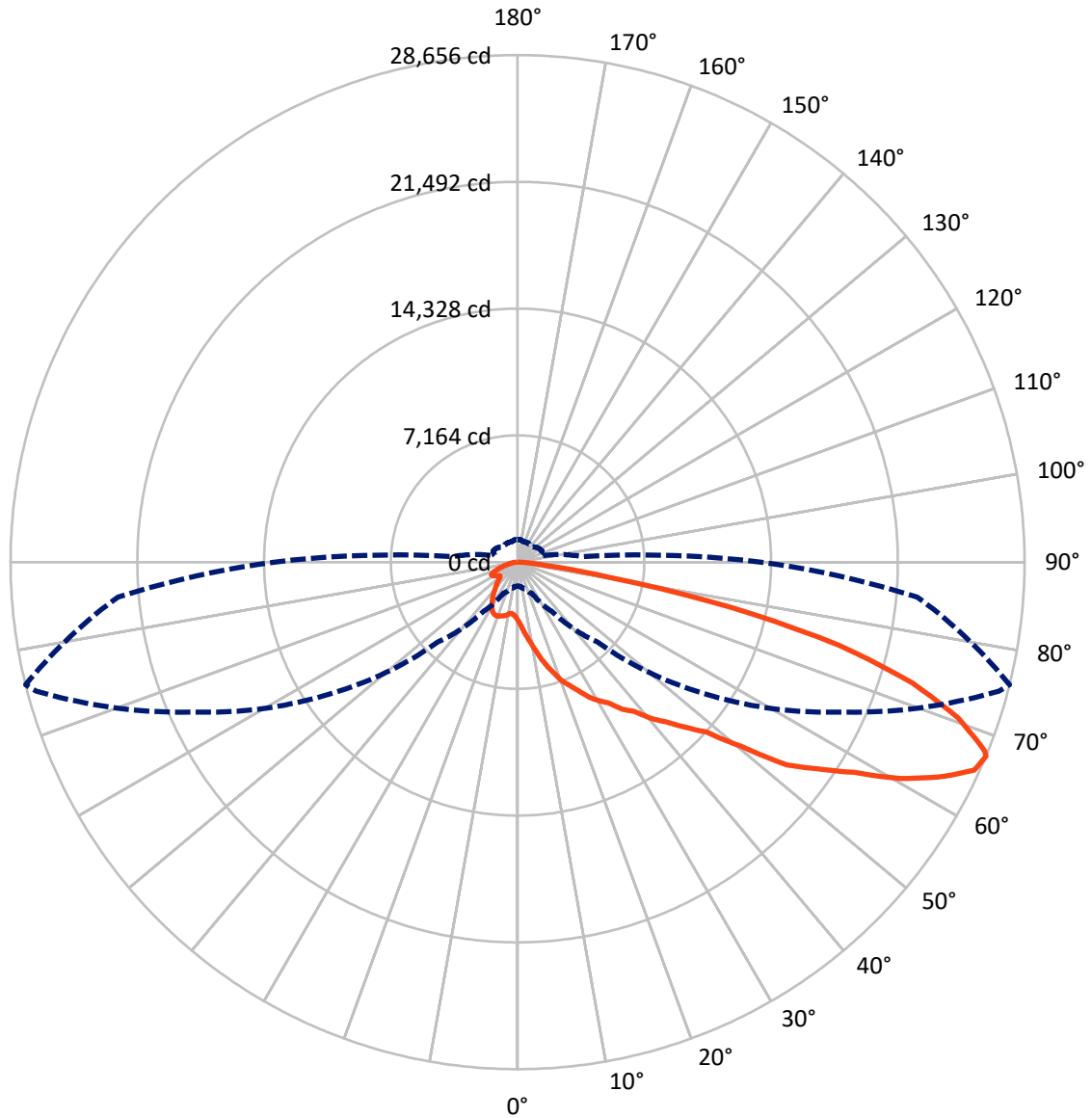
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P477050
CATALOG NUMBER: IFLD-L-SA7A-750-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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 CATALOG NUMBER: IFLD-L-SA7A-750-U-T2R

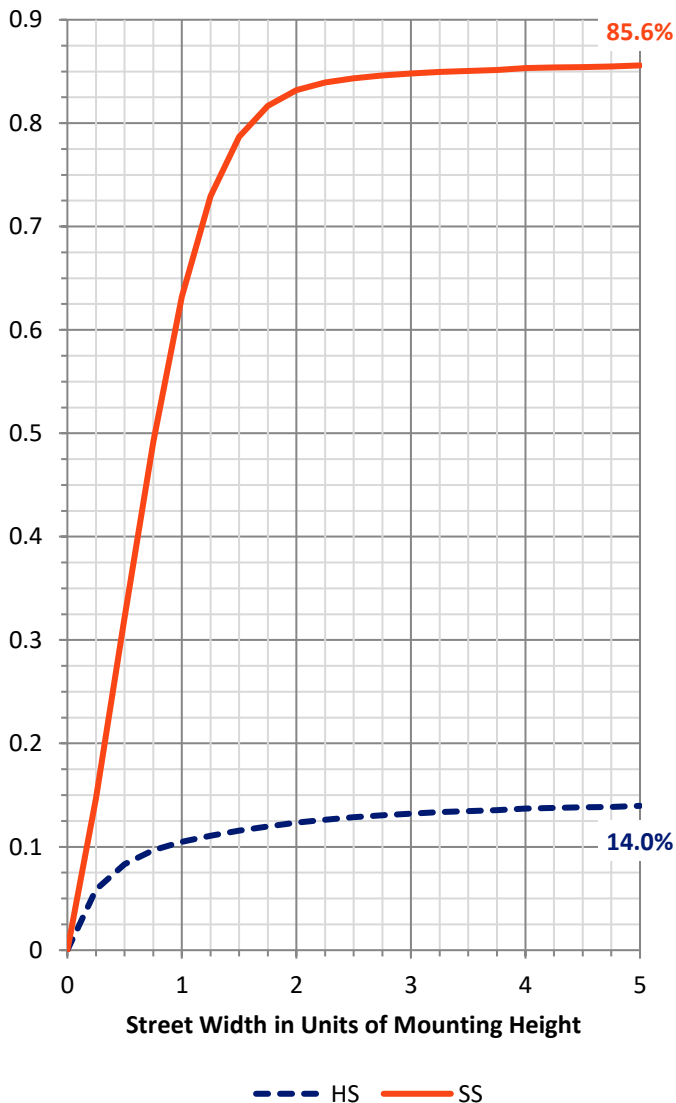
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4580.5	0.0	4580.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	27616.8	0.0	27616.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	32197.3	0.0	32197.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	1.2
10°-20°	1431.4	4.4
20°-30°	2661.3	8.3
30°-40°	4218.7	13.1
40°-50°	5834.8	18.1
50°-60°	7177.2	22.3
60°-70°	6678.7	20.7
70°-80°	3351.3	10.4
80°-90°	462.1	1.4
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°	32197.3	100.0
0°-180°	32197.3	100.0



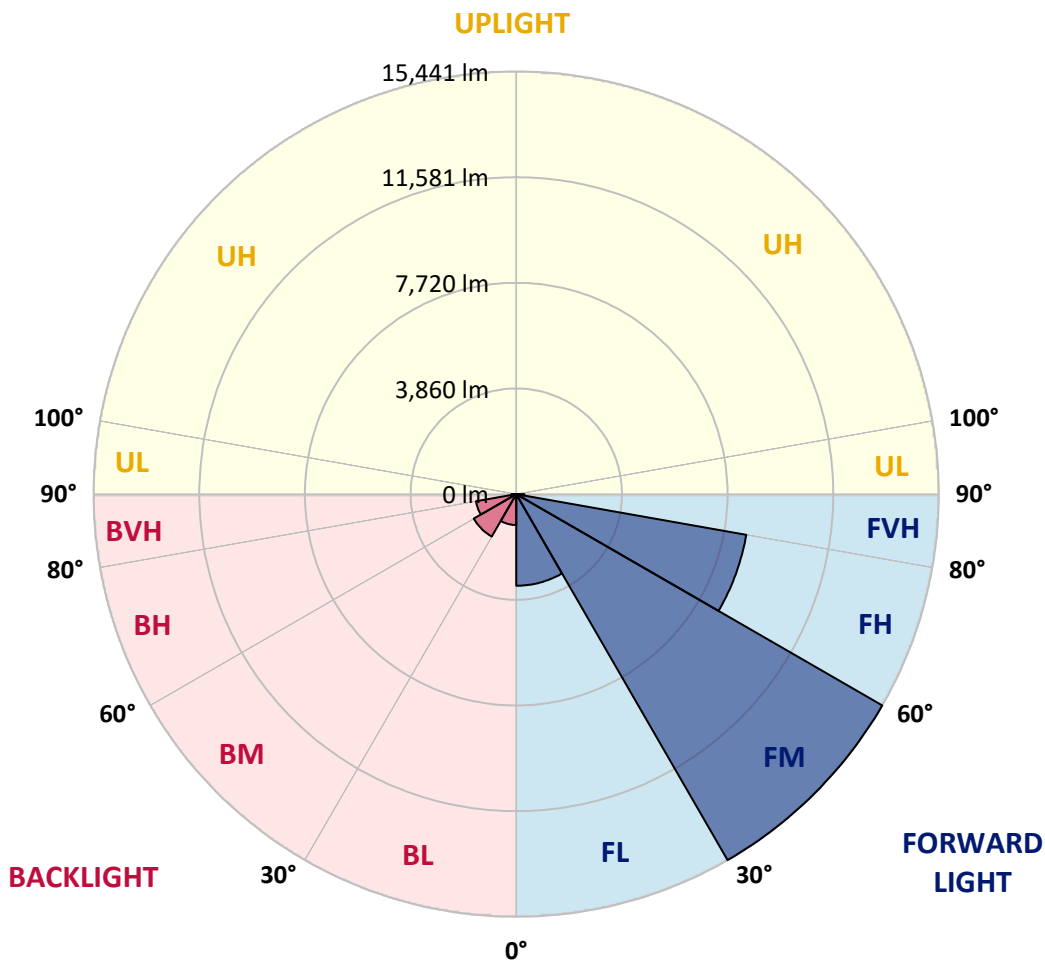
REPORT NUMBER: P477050
 CATALOG NUMBER: IFLD-L-SA7A-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3346.4	10.4			
FM (30°-60°)	15440.8	48.0			
FH (60°-80°)	8535.2	26.5			G4/12000
FVH (80°-90°)	294.4	0.9			G3/500
BL (0°-30°)	1128.0	3.5	B3/2500		
BM (30°-60°)	1790.0	5.6	B2/2500		
BH (60°-80°)	1494.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	167.7	0.5			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 II Medium





REPORT NUMBER: P477050

CATALOG NUMBER: IFLD-L-SA7A-750-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9
2.5°	4571.8	4516.7	4461.7	4344.3	4303.9	4193.8	3992.0	3768.2	3584.8	3559.1	3430.7
5°	5672.5	5591.8	5573.4	5507.4	5298.3	5085.4	4755.2	4395.6	3948.0	3981.0	3540.7
7.5°	6498.1	6450.4	6351.3	6288.9	6164.2	5881.6	5540.4	5063.4	4494.7	4384.6	3786.6
10°	7121.8	7055.8	7052.1	6997.1	6931.0	6641.2	6380.7	5738.5	5008.4	4858.0	4087.4
12.5°	7437.4	7426.4	7620.8	7620.8	7595.1	7474.1	7026.4	6439.4	5496.4	5445.0	4436.0
15°	7778.6	7686.9	7855.6	7984.1	8050.1	8112.5	7741.9	7121.8	6120.1	6021.1	4810.3
17.5°	7778.6	7771.3	7940.0	8152.8	8497.7	8578.5	8376.7	7749.2	6637.5	6564.1	5221.2
20°	7646.5	7752.9	7870.3	8156.5	8530.8	8857.3	8916.0	8391.3	7209.9	7151.2	5687.2
22.5°	8262.9	8160.2	8281.3	8391.3	8681.2	9176.5	9338.0	8956.4	7811.6	7587.8	6109.1
25°	9297.6	9227.9	9139.9	8978.4	9099.5	9316.0	9561.8	9374.7	8325.3	8075.8	6516.4
27.5°	10306.6	10310.3	10119.5	9767.3	9506.8	9550.8	9840.7	9741.6	8758.3	8648.2	6795.3
30°	11741.3	11653.2	11440.4	10963.4	10453.4	10035.1	9987.4	10082.8	9308.6	9095.8	7195.2
32.5°	12816.3	12834.7	12533.8	11847.7	11150.5	10809.3	10391.0	10431.4	9657.2	9499.4	7514.4
35°	13685.9	13663.9	13451.1	12882.4	12056.8	11645.9	11080.8	10849.7	10468.1	10218.6	8002.4
37.5°	14625.2	14445.4	14100.5	13458.4	12930.1	12361.4	11811.0	11290.0	11007.4	10706.6	8420.7
40°	15003.2	15003.2	14540.8	14247.3	13619.9	13190.6	12834.7	11869.7	11664.2	11605.5	8956.4
42.5°	14735.3	14900.4	14709.6	14375.7	14118.9	13575.9	13480.5	12471.4	12475.1	12357.7	9598.5
45°	14709.6	14482.1	14324.4	14408.7	14287.7	14258.3	14500.5	13304.3	13326.4	13311.7	10460.7
47.5°	13972.1	13869.4	14104.2	14243.6	14342.7	14797.7	15494.8	14298.7	14456.4	14346.4	11455.1
50°	13238.3	13219.9	13366.7	13873.1	14302.3	15050.9	16441.5	15832.4	16349.7	16342.4	13256.6
52.5°	11227.6	11422.1	11998.1	13069.5	14129.9	15395.8	17156.9	17791.7	18778.7	19046.6	14750.0
55°	9305.0	9202.2	10053.5	11609.2	13377.7	15531.5	17956.8	18969.5	20422.5	20617.0	16283.7
57.5°	7239.2	7430.0	8101.5	9594.8	11822.0	14860.1	18543.9	20132.6	22279.1	22429.5	18063.2
60°	5401.0	5426.7	6164.2	7367.7	9752.6	13344.7	18734.7	21325.1	24407.2	24836.5	19927.2
62.5°	3397.6	3551.7	4113.1	5298.3	7342.0	11223.9	17879.8	22047.9	26638.0	26751.8	21805.8
65°	1830.9	1930.0	2351.9	3096.8	5129.5	8490.4	15612.2	21615.0	27687.4	28362.5	22642.3
67°	1353.9	1372.3	1566.7	1977.7	3430.7	6391.7	13018.1	20048.2	28164.4	28656.1	22675.3
67.5°	1269.5	1295.2	1449.3	1775.9	3041.7	5885.3	12339.3	19490.5	27951.6	28479.9	22418.5
70°	1086.1	1093.4	1130.1	1221.8	1706.2	3540.7	8402.4	15971.8	25907.9	26414.2	20617.0
72.5°	965.0	972.3	987.0	1005.3	1155.8	2047.4	5111.1	12291.7	22517.6	23324.8	17788.0
75°	847.6	873.3	880.6	865.9	983.3	1331.9	2718.8	9033.4	18367.8	18760.4	13832.7
77.5°	719.2	730.2	744.8	759.5	876.9	994.3	1306.2	6098.1	12607.2	12368.7	7481.4
80°	605.4	609.1	620.1	631.1	759.5	759.5	741.2	3294.9	5507.4	5265.2	2528.0
82.5°	433.0	458.6	484.3	513.7	631.1	510.0	484.3	1467.7	1742.8	1658.5	854.9
85°	168.8	205.5	319.2	352.2	399.9	275.2	322.9	634.8	726.5	719.2	319.2
87.5°	29.4	33.0	88.1	135.8	146.8	95.4	154.1	227.5	271.5	293.5	117.4
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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 CATALOG NUMBER: IFLD-L-SA7A-750-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9	3294.9
2.5°	3324.2	3210.5	3074.7	2939.0	2850.9	2711.5	2700.5	2616.1	2605.1	2575.7	2590.4
5°	3349.9	3214.2	2939.0	2722.5	2623.4	2542.7	2561.1	2524.4	2513.4	2495.0	2465.7
7.5°	3551.7	3283.9	2872.9	2685.8	2612.4	2575.7	2575.7	2531.7	2498.7	2520.7	2542.7
10°	3683.8	3316.9	2924.3	2737.2	2678.5	2597.8	2627.1	2572.1	2590.4	2546.4	2546.4
12.5°	3896.6	3504.0	3030.7	2814.2	2718.8	2645.5	2674.8	2612.4	2597.8	2601.4	2590.4
15°	4182.8	3628.8	3078.4	2858.3	2792.2	2700.5	2678.5	2623.4	2568.4	2550.1	2572.1
17.5°	4450.7	3782.9	3111.4	2884.0	2777.5	2674.8	2649.1	2579.4	2561.1	2506.0	2462.0
20°	4769.9	3966.4	3155.5	2906.0	2722.5	2619.8	2553.7	2484.0	2421.6	2388.6	2403.3
22.5°	4982.7	4061.7	3177.5	2861.9	2641.8	2546.4	2407.0	2359.3	2271.2	2234.5	2205.2
25°	5331.3	4179.2	3122.4	2740.9	2498.7	2344.6	2219.8	2153.8	2091.4	2043.7	2029.0
27.5°	5419.3	4267.2	2994.0	2535.4	2271.2	2109.8	2003.4	1922.6	1882.3	1808.9	1794.2
30°	5676.2	4179.2	2803.2	2285.9	2054.7	1889.6	1783.2	1724.5	1629.1	1610.8	1570.4
32.5°	5841.3	4204.8	2561.1	2043.7	1805.2	1658.5	1588.7	1530.0	1504.4	1416.3	1394.3
35°	6116.5	4116.8	2315.2	1819.9	1599.7	1486.0	1427.3	1409.0	1324.6	1284.2	1247.5
37.5°	6292.6	4065.4	2069.4	1566.7	1375.9	1328.2	1346.6	1269.5	1166.8	1089.7	1064.1
40°	6600.8	4047.1	1790.5	1357.6	1221.8	1210.8	1269.5	1122.8	935.6	869.6	832.9
42.5°	7044.8	3922.3	1574.1	1170.5	1100.7	1148.4	1159.5	935.6	829.2	774.2	748.5
45°	7470.4	3948.0	1361.3	968.7	957.6	1027.4	1001.7	792.5	730.2	689.8	711.8
47.5°	8288.6	4076.4	1152.1	807.2	862.3	928.3	777.9	708.1	649.4	620.1	623.8
50°	9554.5	4201.2	968.7	737.5	814.6	840.2	667.8	642.1	638.4	579.7	576.1
52.5°	10314.0	4153.5	935.6	825.6	873.3	840.2	726.5	708.1	678.8	653.1	623.8
55°	11521.1	4292.9	1005.3	965.0	990.7	807.2	814.6	807.2	785.2	719.2	737.5
57.5°	12482.4	4384.6	1097.1	1078.7	1064.1	840.2	851.2	854.9	840.2	810.9	836.6
60°	13803.3	4568.1	1192.5	1196.1	1199.8	913.6	932.0	954.0	950.3	939.3	946.6
62.5°	14614.2	4483.7	1298.9	1357.6	1339.2	1064.1	1060.4	1075.1	1075.1	1093.4	1104.4
65°	14493.1	4171.8	1353.9	1500.7	1405.3	1174.1	1174.1	1181.5	1185.1	1221.8	1225.5
67°	13766.6	3614.1	1324.6	1522.7	1405.3	1218.2	1218.2	1225.5	1199.8	1295.2	1265.9
67.5°	13429.1	3449.0	1298.9	1504.4	1394.3	1214.5	1214.5	1218.2	1196.1	1287.9	1258.5
70°	11678.9	2561.1	1119.1	1331.9	1291.5	1181.5	1181.5	1159.5	1141.1	1262.2	1236.5
72.5°	9969.1	1860.3	898.9	1133.8	1166.8	1137.4	1144.8	1089.7	1038.4	1122.8	1100.7
75°	7635.5	1368.6	700.8	873.3	987.0	1064.1	1111.8	972.3	906.3	928.3	887.9
77.5°	4259.9	891.6	554.0	645.8	752.2	990.7	1067.7	876.9	741.2	715.5	715.5
80°	1445.6	521.0	407.3	480.7	517.4	876.9	998.0	711.8	583.4	557.7	539.4
82.5°	546.7	319.2	278.9	330.2	330.2	693.5	814.6	546.7	440.3	568.7	579.7
85°	249.5	190.8	183.5	190.8	190.8	425.6	576.1	355.9	396.3	341.2	300.9
87.5°	99.1	91.7	84.4	80.7	66.0	73.4	198.1	95.4	179.8	47.7	44.0
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)