

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: P476624

Luminaire Tested: **IFLD-L-SA7D-740-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476624  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

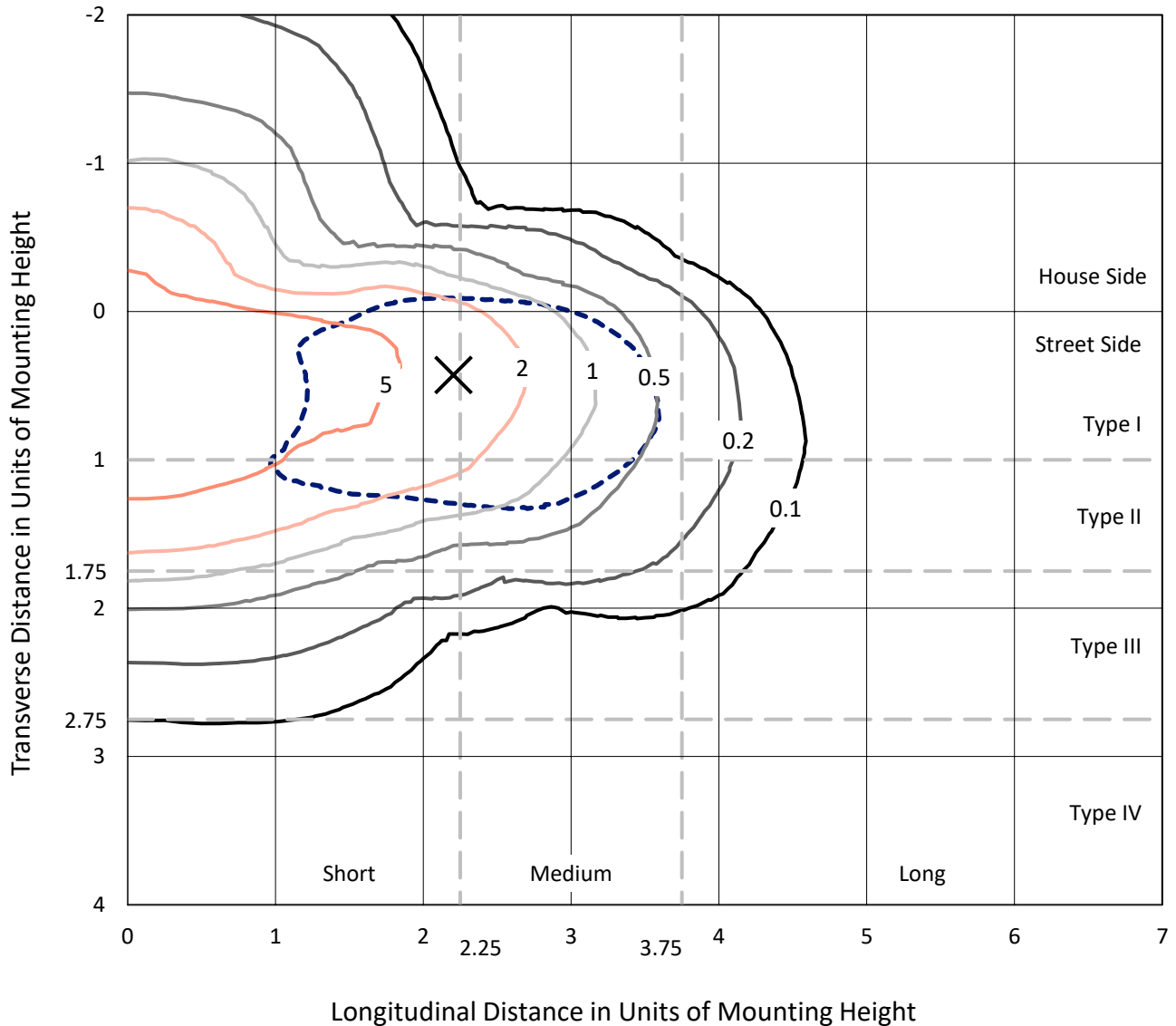
Lumens per Lamp: N/A  
Luminaire Lumens: 48720.2 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6  
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

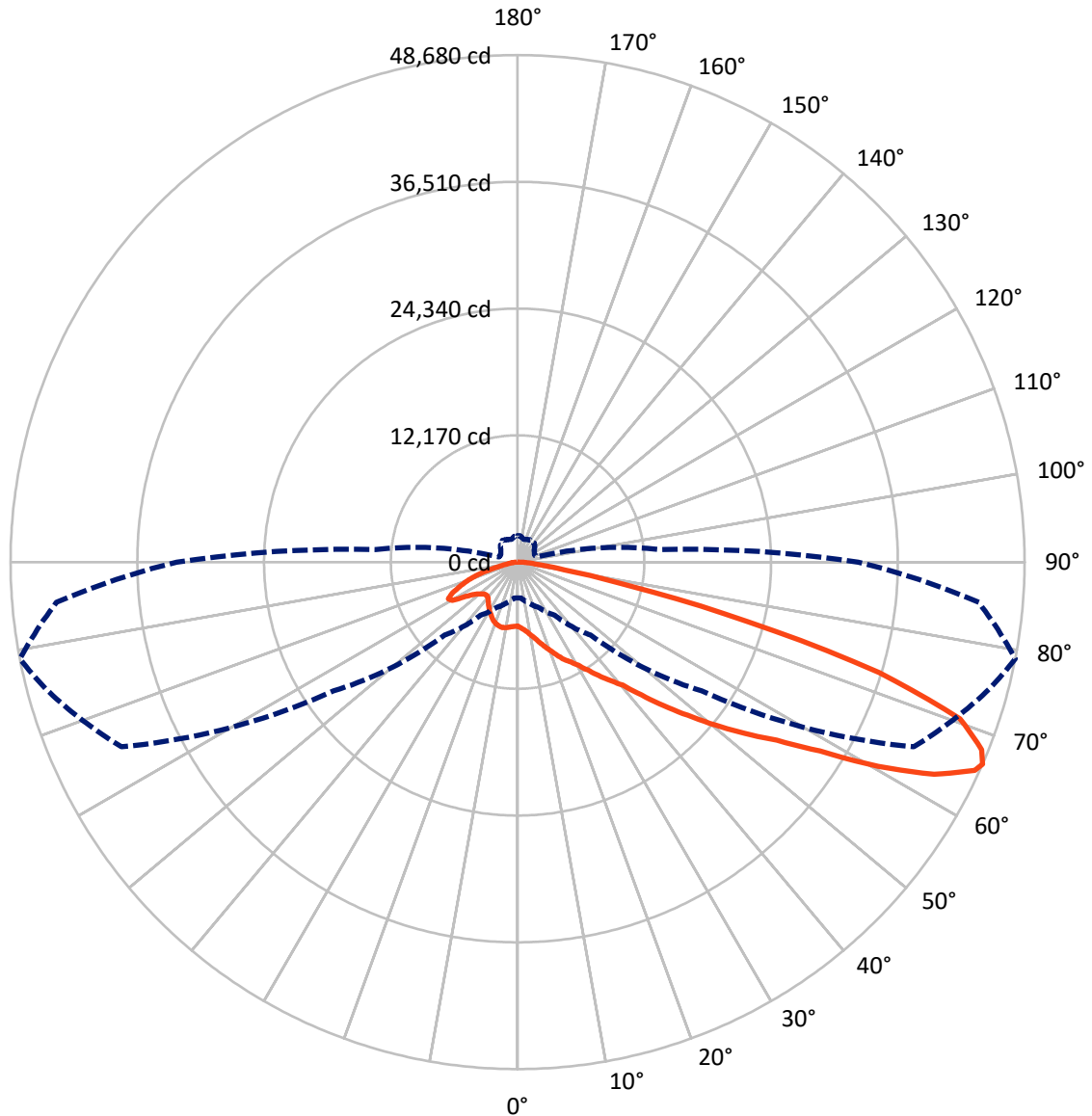
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9838.4	0.0	9838.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	38881.8	0.0	38881.8
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	48720.2	0.0	48720.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	604.9	1.2
10°-20°	1868.0	3.8
20°-30°	3206.5	6.6
30°-40°	4953.3	10.2
40°-50°	7934.0	16.3
50°-60°	11846.0	24.3
60°-70°	12171.7	25.0
70°-80°	5395.6	11.1
80°-90°	740.3	1.5
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°	48720.2	100.0
0°-180°	48720.2	100.0

**Coefficient of Utilization**



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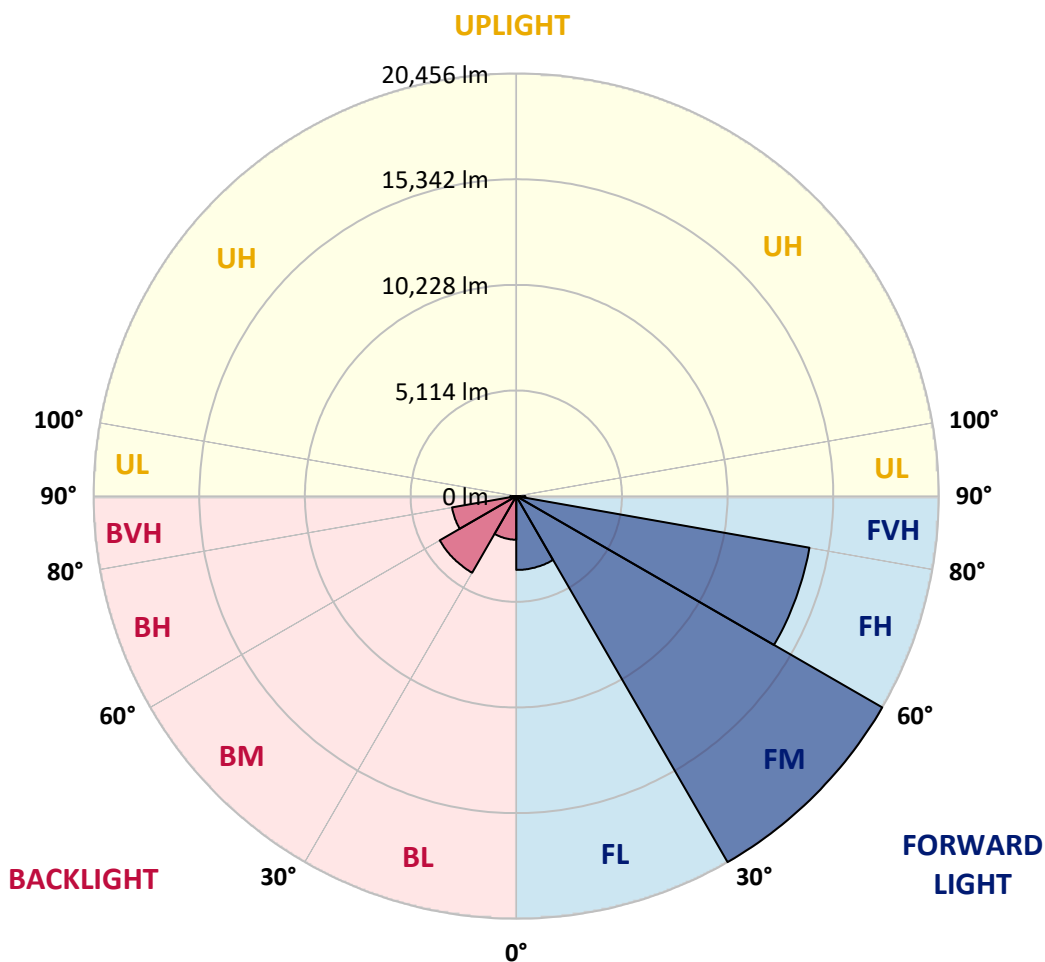
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3571.5	7.3			
FM (30°-60°)	20456.0	42.0			
FH (60°-80°)	14410.4	29.6			G5
FVH (80°-90°)	444.0	0.9			G3/500
BL (0°-30°)	2107.9	4.3	B3/2500		
BM (30°-60°)	4277.3	8.8	B3/5000		
BH (60°-80°)	3156.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	296.3	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0
2.5°	6543.2	6548.6	6548.6	6527.1	6532.5	6548.6	6489.6	6361.0	6361.0	6339.6	6302.1
5°	6945.1	6918.3	6880.8	6886.2	6864.7	6864.7	6800.4	6677.2	6570.0	6527.1	6414.6
7.5°	6998.7	7025.5	7020.2	7084.5	7116.6	7116.6	7148.8	7046.9	6886.2	6784.4	6671.8
10°	7105.9	7036.2	7030.9	7180.9	7229.1	7341.7	7470.3	7416.7	7282.7	7138.0	6988.0
12.5°	7170.2	7213.1	7213.1	7288.1	7400.6	7566.8	7791.8	7893.7	7684.7	7534.6	7304.2
15°	7266.7	7207.7	7379.2	7443.5	7657.9	7775.8	8097.3	8359.9	8220.5	8038.3	7673.9
17.5°	7309.5	7272.0	7368.5	7486.4	7850.8	8027.6	8418.8	8783.2	8665.3	8547.4	8172.3
20°	7529.2	7523.9	7566.8	7663.2	7925.8	8274.1	8761.8	9265.5	9308.4	9094.0	8584.9
22.5°	8065.1	7995.5	7995.5	7958.0	8070.5	8429.5	9088.7	9785.3	9978.3	9726.4	9051.2
25°	8558.2	8654.6	8595.7	8424.2	8381.3	8568.9	9324.5	10337.3	10594.5	10358.7	9683.5
27.5°	9190.5	9222.7	9324.5	9094.0	8799.3	8858.3	9581.7	10648.1	11178.7	10862.5	10042.6
30°	10101.5	10042.6	10021.1	9763.9	9378.1	9297.7	9876.4	11103.6	11945.0	11500.2	10465.9
32.5°	10717.8	10862.5	10857.1	10503.4	10037.2	9860.4	10240.8	11532.3	12764.9	12352.3	11248.3
35°	11939.6	12089.7	11971.8	11452.0	10905.3	10551.7	10766.0	12089.7	13702.7	13381.2	11912.8
37.5°	13499.1	13852.7	13600.9	12641.6	11869.9	11484.1	11494.8	12695.2	14661.9	14399.3	12625.6
40°	14576.2	15053.1	14704.8	13804.5	12984.6	12620.2	12475.5	13413.3	15808.7	15530.1	13740.2
42.5°	15910.6	16307.1	16124.9	15235.3	14276.1	13965.3	13675.9	14613.7	17561.1	17432.5	15171.0
45°	17368.2	17555.7	17496.8	16934.1	15867.7	15760.5	15122.8	16194.6	19624.3	19677.9	16960.9
47.5°	18724.0	18825.8	18938.3	18531.1	17866.6	17957.7	16789.4	17888.0	21628.5	21982.2	18954.4
50°	19072.3	19420.6	19683.2	19956.5	20101.2	20717.5	18627.5	19967.2	23932.8	24618.8	21173.0
52.5°	18718.6	18691.8	19490.3	20347.7	21794.6	23086.1	21130.1	22550.2	25969.2	27325.0	23204.0
55°	17110.9	17057.4	18343.5	19479.6	22303.7	24404.4	24704.5	25990.6	28428.9	30192.0	25953.1
57.5°	14297.5	13965.3	15369.3	17234.2	21199.8	24549.1	28295.0	31097.7	32212.3	34221.9	30149.1
60°	9608.5	9469.2	10814.2	13038.2	17212.8	22496.6	30443.9	37490.8	37544.4	39805.9	36660.2
62.5°	5916.2	5943.0	6805.8	8472.4	12052.2	17834.4	29516.8	42597.8	42608.6	44875.4	42019.1
65°	3869.1	3885.2	4581.9	5503.6	7529.2	12095.0	24409.8	42999.8	46129.4	48235.4	44473.5
66°	3445.8	3451.1	4051.3	4801.6	6237.8	9897.9	21558.8	41954.8	46922.5	48680.2	44441.3
67.5°	2904.5	2974.2	3456.5	4035.2	4865.9	7111.3	17105.6	38932.4	46515.2	48058.6	43433.8
70°	2272.2	2309.7	2690.2	3279.6	3649.4	4115.6	10165.8	31735.4	42576.4	45079.0	39768.4
72.5°	1822.0	1854.2	2143.6	2663.4	2963.5	2711.6	5535.7	23027.2	33632.4	36301.1	31279.9
75°	1538.0	1543.4	1682.7	2095.3	2438.3	2036.4	2947.4	14779.8	21580.3	22823.5	19163.4
77.5°	1243.3	1264.7	1361.2	1597.0	1961.4	1602.3	1757.7	8279.5	10835.7	10926.8	8858.3
80°	1012.8	1023.5	1082.5	1162.9	1495.1	1184.3	1189.7	4040.6	4646.2	4539.0	3601.2
82.5°	798.5	809.2	878.9	862.8	1098.6	846.7	739.5	1945.3	2138.2	2095.3	1655.9
85°	450.1	450.1	691.3	691.3	696.7	535.9	450.1	916.4	1130.7	1055.7	777.0
87.5°	144.7	150.0	209.0	219.7	348.3	241.2	219.7	343.0	535.9	471.6	278.7
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°	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0	6152.0
2.5°	6280.6	6194.9	6157.4	6034.1	6002.0	5921.6	5884.1	5835.8	5819.8	5750.1	5814.4
5°	6328.9	6302.1	6152.0	5996.6	5878.7	5825.1	5744.7	5637.6	5626.8	5530.4	5519.7
7.5°	6532.5	6441.4	6178.8	6012.7	5776.9	5642.9	5466.1	5412.5	5342.8	5310.7	5380.3
10°	6848.7	6618.2	6227.0	5809.0	5519.7	5358.9	5230.3	5192.8	5198.1	5176.7	5144.5
12.5°	7073.7	6854.0	6146.7	5637.6	5262.4	5107.0	5096.3	5133.8	5192.8	5166.0	5203.5
15°	7395.3	6982.6	6087.7	5353.5	5053.4	5010.6	5005.2	5117.7	5112.4	5112.4	5107.0
17.5°	7695.4	7111.3	5873.3	5107.0	4833.7	4865.9	4903.4	4898.0	4951.6	4973.1	5010.6
20°	8075.9	7261.3	5573.2	4860.5	4667.6	4656.9	4651.5	4656.9	4710.5	4742.6	4715.8
22.5°	8408.1	7293.5	5321.4	4624.7	4469.3	4426.4	4356.8	4426.4	4399.7	4410.4	4442.5
25°	8697.5	7298.8	4962.3	4447.9	4271.0	4174.6	4121.0	4115.6	4067.4	4062.0	4062.0
27.5°	8938.6	7116.6	4646.2	4201.4	4035.2	3944.1	3938.8	3879.8	3756.6	3676.2	3686.9
30°	9126.2	6977.3	4426.4	3987.0	3826.3	3810.2	3761.9	3628.0	3467.2	3365.4	3365.4
32.5°	9458.4	6698.6	4126.3	3767.3	3686.9	3665.5	3552.9	3435.1	3285.0	3188.5	3172.5
35°	9705.0	6441.4	3928.1	3579.7	3542.2	3499.4	3402.9	3274.3	3231.4	3210.0	3226.1
37.5°	9983.6	6152.0	3686.9	3419.0	3456.5	3376.1	3263.6	3204.6	3354.7	3317.2	3333.2
40°	10428.4	5948.4	3451.1	3322.5	3360.0	3268.9	3124.2	3102.8	3290.4	3156.4	3124.2
42.5°	11243.0	5943.0	3306.4	3177.8	3204.6	3135.0	3006.3	2995.6	3070.6	2909.9	2861.6
45°	12255.8	6130.6	3199.3	3070.6	3049.2	3038.5	2995.6	2947.4	2883.1	2674.1	2620.5
47.5°	13466.9	6436.0	3177.8	2909.9	2936.7	3027.8	2974.2	2850.9	2684.8	2550.8	2524.0
50°	14935.2	7068.4	3124.2	2792.0	2840.2	2984.9	2942.0	2770.5	2620.5	2534.8	2518.7
52.5°	16559.0	7866.9	3054.6	2609.8	2717.0	2947.4	2968.8	2808.1	2588.3	2513.3	2502.6
55°	18472.1	9045.8	2974.2	2411.5	2572.3	2909.9	2968.8	2700.9	2545.5	2545.5	2534.8
57.5°	22250.1	11167.9	2808.1	2229.3	2443.7	2840.2	2883.1	2706.2	2550.8	2550.8	2529.4
60°	27791.2	14479.7	2491.9	2090.0	2320.4	2743.8	2818.8	2625.9	2491.9	2524.0	2518.7
62.5°	32126.6	15487.2	2223.9	1956.0	2197.1	2566.9	2733.0	2540.1	2422.2	2540.1	2550.8
65°	33053.7	14469.0	1950.6	1811.3	2025.7	2395.4	2609.8	2416.9	2320.4	2550.8	2561.6
66°	32721.4	13675.9	1854.2	1768.4	1950.6	2309.7	2534.8	2374.0	2266.8	2540.1	2545.5
67.5°	31242.4	12486.2	1747.0	1677.3	1848.8	2186.4	2449.0	2315.0	2181.1	2508.0	2459.7
70°	28027.0	10589.2	1564.8	1516.6	1704.1	1982.8	2250.7	2165.0	2047.1	2309.7	2223.9
72.5°	21585.6	8461.7	1371.9	1377.2	1538.0	1773.8	2052.5	1993.5	1891.7	2025.7	1972.1
75°	13145.4	5407.1	1195.0	1205.8	1339.7	1575.5	1864.9	1822.0	1698.8	1773.8	1747.0
77.5°	5825.1	2679.4	1007.5	1028.9	1136.1	1388.0	1623.7	1554.1	1425.5	1441.5	1430.8
80°	2261.5	1270.1	819.9	846.7	916.4	1109.3	1345.1	1280.8	1168.2	1146.8	1136.1
82.5°	1087.9	707.4	632.3	643.1	669.9	884.2	1157.5	1077.1	927.1	830.6	830.6
85°	546.6	439.4	444.8	407.3	444.8	600.2	782.4	653.8	541.2	482.3	493.0
87.5°	219.7	219.7	219.7	187.6	198.3	284.0	364.4	246.5	225.1	134.0	134.0
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)