

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: P476547

Luminaire Tested: **IFLD-L-SA7E-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476547
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-730-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

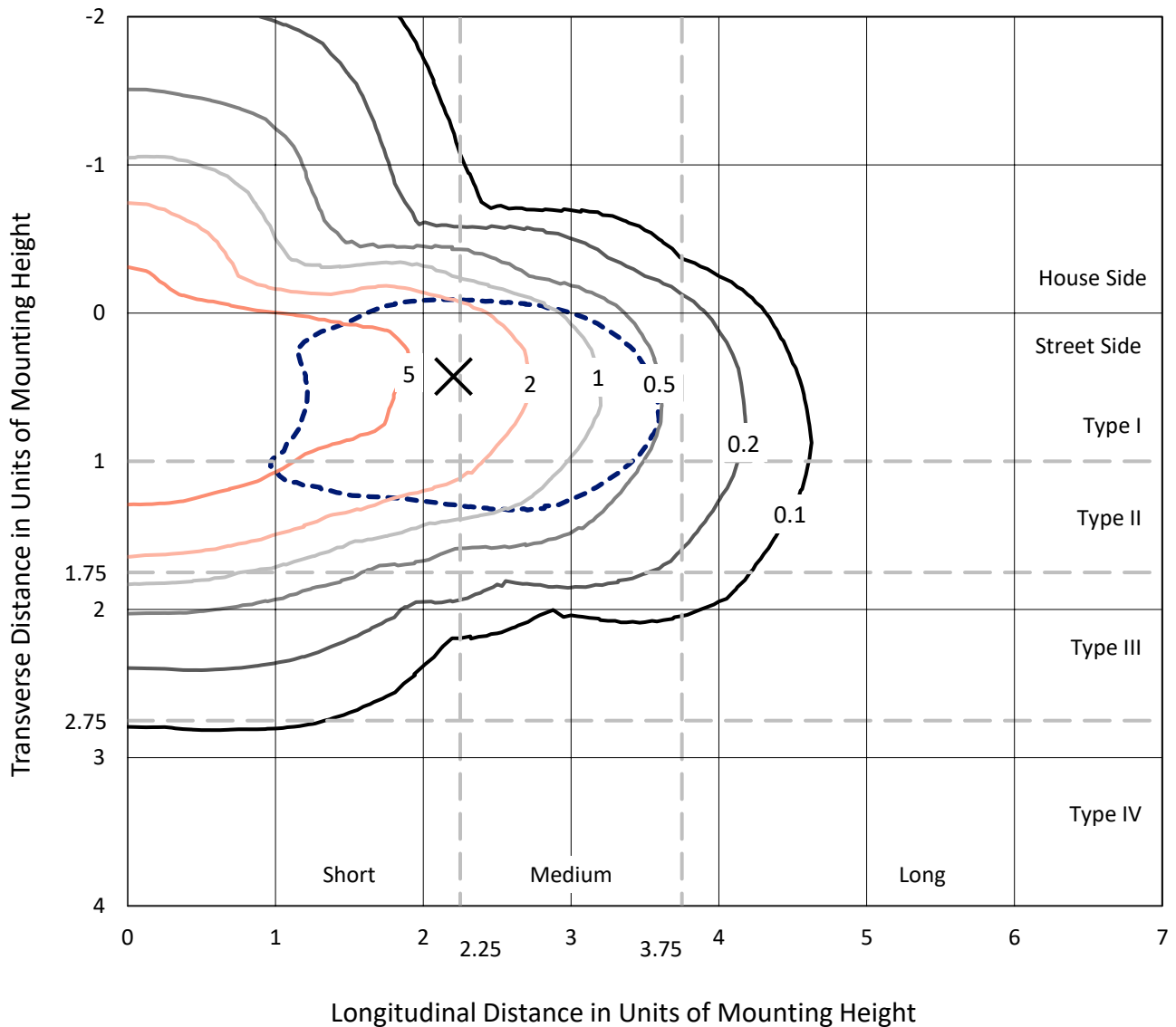
Lumens per Lamp: N/A
Luminaire Lumens: 51342.6 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 532.7
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

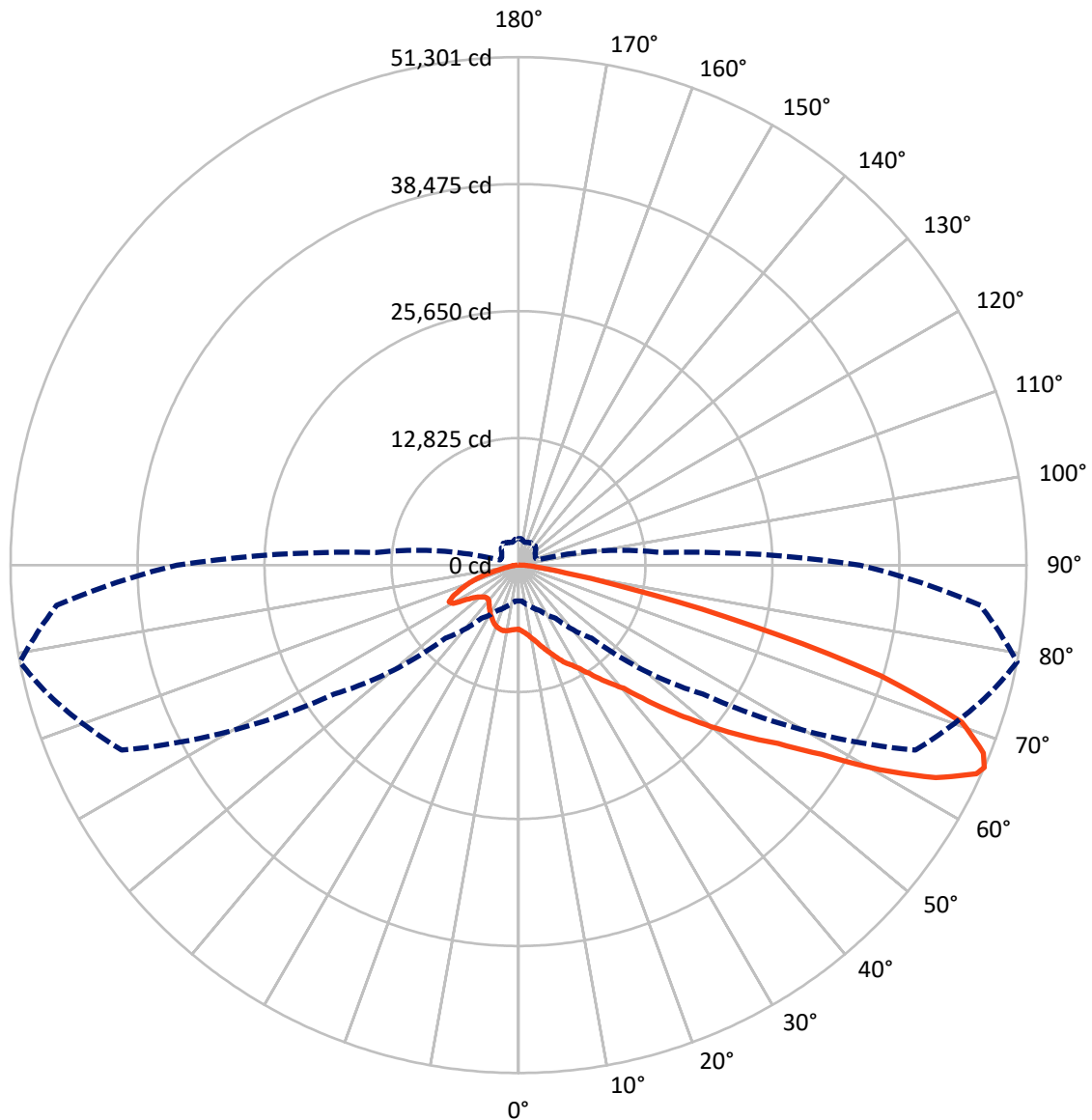
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 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
House Side	Lumens	10367.9	0.0	10367.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	40974.7	0.0	40974.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	51342.6	0.0	51342.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.5	1.2
10°-20°	1968.5	3.8
20°-30°	3379.0	6.6
30°-40°	5219.9	10.2
40°-50°	8361.0	16.3
50°-60°	12483.6	24.3
60°-70°	12826.9	25.0
70°-80°	5686.0	11.1
80°-90°	780.2	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°	51342.6	100.0
0°-180°	51342.6	100.0

Coefficient of Utilization

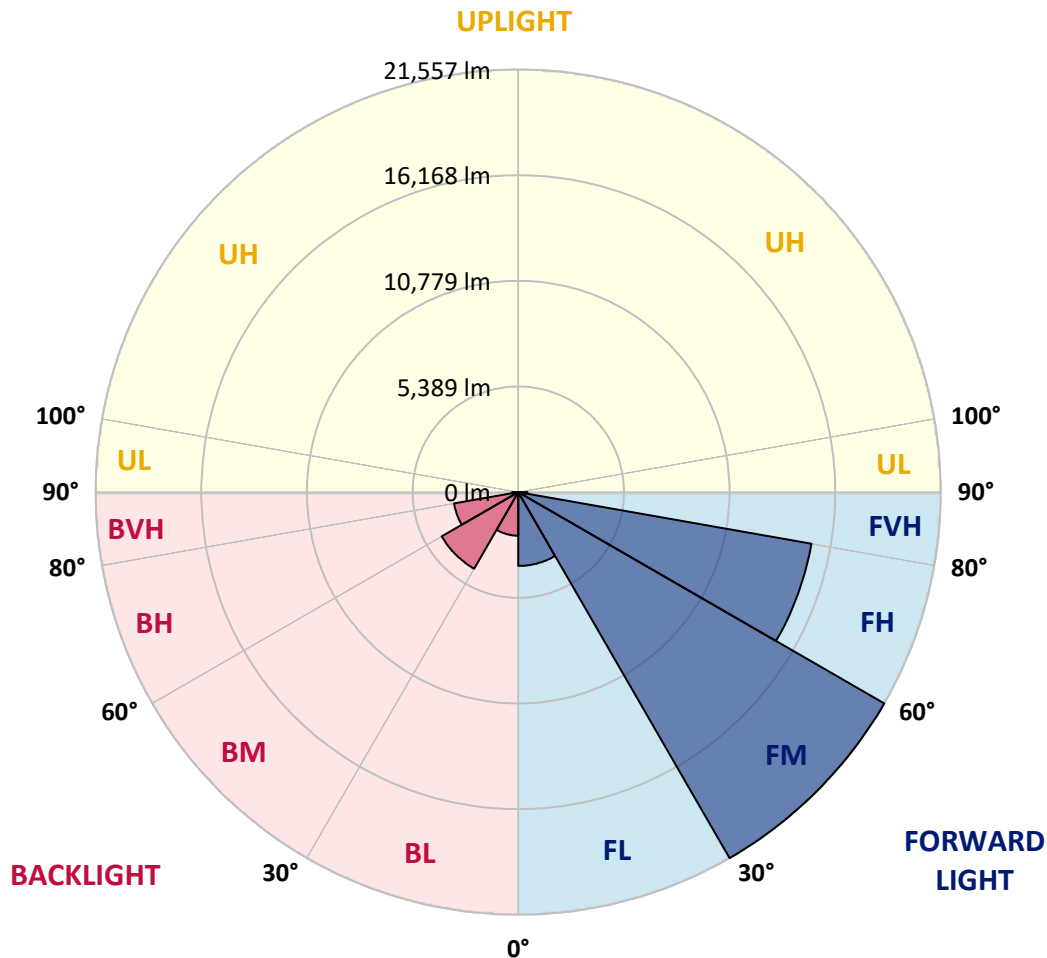


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.7	7.3			
FM (30°-60°)	21557.0	42.0			
FH (60°-80°)	15186.0	29.6			G5
FVH (80°-90°)	467.9	0.9			G3/500
BL (0°-30°)	2221.3	4.3	B3/2500		
BM (30°-60°)	4507.5	8.8	B3/5000		
BH (60°-80°)	3326.9	6.5	B4/5000		G4/5000
BVH (80°-90°)	312.2	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°	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2
2.5°	6895.4	6901.1	6901.1	6878.5	6884.1	6901.1	6838.9	6703.4	6703.4	6680.8	6641.3
5°	7319.0	7290.7	7251.2	7256.8	7234.2	7234.2	7166.5	7036.6	6923.6	6878.5	6759.9
7.5°	7375.4	7403.7	7398.0	7465.8	7499.7	7499.7	7533.6	7426.3	7256.8	7149.5	7030.9
10°	7488.4	7415.0	7409.3	7567.4	7618.3	7736.9	7872.4	7815.9	7674.7	7522.3	7364.1
12.5°	7556.1	7601.3	7601.3	7680.4	7799.0	7974.1	8211.2	8318.5	8098.3	7940.2	7697.3
15°	7657.8	7595.7	7776.4	7844.2	8070.1	8194.3	8533.1	8809.9	8663.0	8471.0	8087.0
17.5°	7703.0	7663.4	7765.1	7889.3	8273.4	8459.7	8872.0	9256.0	9131.8	9007.5	8612.2
20°	7934.5	7928.9	7974.1	8075.7	8352.4	8719.5	9233.4	9764.3	9809.4	9583.5	9047.0
22.5°	8499.3	8425.8	8425.8	8386.3	8504.9	8883.3	9577.9	10312.1	10515.4	10249.9	9538.4
25°	9018.8	9120.5	9058.3	8877.6	8832.4	9030.1	9826.4	10893.7	11164.8	10916.3	10204.8
27.5°	9685.2	9719.1	9826.4	9583.5	9272.9	9335.1	10097.5	11221.3	11780.4	11447.2	10583.1
30°	10645.2	10583.1	10560.5	10289.5	9882.9	9798.1	10408.1	11701.3	12587.9	12119.2	11029.3
32.5°	11294.7	11447.2	11441.5	11068.8	10577.5	10391.1	10792.1	12153.1	13452.0	13017.1	11853.8
35°	12582.3	12740.4	12616.2	12068.4	11492.3	11119.6	11345.5	12740.4	14440.3	14101.4	12554.0
37.5°	14225.7	14598.4	14333.0	13322.1	12508.9	12102.3	12113.6	13378.6	15451.1	15174.4	13305.1
40°	15360.8	15863.4	15496.3	14547.6	13683.5	13299.5	13147.0	14135.3	16659.7	16366.0	14479.8
42.5°	16767.0	17184.9	16992.9	16055.4	15044.5	14717.0	14412.0	15400.3	18506.3	18370.8	15987.6
45°	18303.0	18500.7	18438.6	17845.6	16721.8	16608.8	15936.8	17066.3	20680.6	20737.0	17873.8
47.5°	19731.8	19839.1	19957.7	19528.5	18828.2	18924.3	17693.1	18850.8	22792.7	23165.4	19974.7
50°	20098.9	20466.0	20742.7	21030.7	21183.2	21832.6	19630.2	21042.0	25221.0	25943.9	22312.7
52.5°	19726.2	19697.9	20539.4	21443.0	22967.7	24328.8	22267.5	23764.0	27367.0	28795.8	24453.0
55°	18032.0	17975.5	19330.9	20528.1	23504.2	25718.0	26034.3	27389.6	29959.2	31817.1	27350.1
57.5°	15067.1	14717.0	16196.6	18161.9	22340.9	25870.5	29818.0	32771.5	33946.2	36063.9	31772.0
60°	10125.7	9978.9	11396.3	13740.0	18139.3	23707.6	32082.6	39508.8	39565.3	41948.5	38633.5
62.5°	6234.7	6262.9	7172.1	8928.5	12700.9	18794.4	31105.6	44890.7	44902.0	47290.9	44280.8
65°	4077.4	4094.3	4828.5	5799.8	7934.5	12746.1	25723.7	45314.3	48612.3	50831.7	46867.3
66°	3631.2	3636.9	4269.4	5060.0	6573.5	10430.6	22719.3	44213.1	49448.1	51300.5	46833.4
67.5°	3060.9	3134.3	3642.5	4252.5	5127.8	7494.0	18026.3	41028.0	49018.9	50645.4	45771.7
70°	2394.5	2434.0	2835.0	3456.2	3845.8	4337.2	10713.0	33443.6	44868.2	47505.5	41908.9
72.5°	1920.1	1954.0	2258.9	2806.7	3123.0	2857.6	5833.7	24266.6	35442.7	38255.1	32963.5
75°	1620.8	1626.4	1773.3	2208.1	2569.5	2146.0	3106.0	15575.4	22741.9	24052.0	20194.9
77.5°	1310.2	1332.8	1434.4	1682.9	2066.9	1688.6	1852.3	8725.1	11418.9	11514.9	9335.1
80°	1067.3	1078.6	1140.8	1225.5	1575.6	1248.1	1253.7	4258.1	4896.2	4783.3	3795.0
82.5°	841.5	852.7	926.2	909.2	1157.7	892.3	779.3	2050.0	2253.3	2208.1	1745.0
85°	474.4	474.4	728.5	728.5	734.2	564.7	474.4	965.7	1191.6	1112.5	818.9
87.5°	152.5	158.1	220.2	231.5	367.1	254.1	231.5	361.4	564.7	497.0	293.7
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°	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2	6483.2
2.5°	6618.7	6528.3	6488.8	6358.9	6325.0	6240.3	6200.8	6150.0	6133.0	6059.6	6127.4
5°	6669.5	6641.3	6483.2	6319.4	6195.1	6138.7	6054.0	5941.0	5929.7	5828.1	5816.8
7.5°	6884.1	6788.1	6511.4	6336.3	6087.8	5946.7	5760.3	5703.8	5630.4	5596.5	5669.9
10°	7217.3	6974.5	6562.2	6121.7	5816.8	5647.3	5511.8	5472.3	5477.9	5455.3	5421.5
12.5°	7454.5	7223.0	6477.5	5941.0	5545.7	5381.9	5370.6	5410.2	5472.3	5444.0	5483.6
15°	7793.3	7358.5	6415.4	5641.7	5325.4	5280.3	5274.6	5393.2	5387.6	5387.6	5381.9
17.5°	8109.6	7494.0	6189.5	5381.9	5093.9	5127.8	5167.3	5161.7	5218.1	5240.7	5280.3
20°	8510.5	7652.2	5873.2	5122.1	4918.8	4907.5	4901.9	4907.5	4964.0	4997.9	4969.7
22.5°	8860.7	7686.0	5607.8	4873.7	4709.9	4664.7	4591.3	4664.7	4636.5	4647.8	4681.6
25°	9165.6	7691.7	5229.4	4687.3	4500.9	4399.3	4342.8	4337.2	4286.3	4280.7	4280.7
27.5°	9419.8	7499.7	4896.2	4427.5	4252.5	4156.4	4150.8	4088.7	3958.8	3874.1	3885.4
30°	9617.4	7352.8	4664.7	4201.6	4032.2	4015.3	3964.4	3823.3	3653.8	3546.5	3546.5
32.5°	9967.6	7059.2	4348.5	3970.1	3885.4	3862.8	3744.2	3619.9	3461.8	3360.2	3343.2
35°	10227.3	6788.1	4139.5	3772.4	3732.9	3687.7	3586.1	3450.5	3405.3	3382.8	3399.7
37.5°	10521.0	6483.2	3885.4	3603.0	3642.5	3557.8	3439.2	3377.1	3535.2	3495.7	3512.6
40°	10989.7	6268.6	3636.9	3501.4	3540.9	3444.9	3292.4	3269.8	3467.5	3326.3	3292.4
42.5°	11848.1	6262.9	3484.4	3348.9	3377.1	3303.7	3168.2	3156.9	3235.9	3066.5	3015.7
45°	12915.5	6460.6	3371.5	3235.9	3213.3	3202.0	3156.9	3106.0	3038.3	2818.0	2761.6
47.5°	14191.8	6782.5	3348.9	3066.5	3094.7	3190.7	3134.3	3004.4	2829.3	2688.1	2659.9
50°	15739.1	7448.8	3292.4	2942.3	2993.1	3145.6	3100.4	2919.7	2761.6	2671.2	2654.3
52.5°	17450.3	8290.3	3219.0	2750.3	2863.2	3106.0	3128.6	2959.2	2727.7	2648.6	2637.3
55°	19466.4	9532.7	3134.3	2541.3	2710.7	3066.5	3128.6	2846.3	2682.5	2682.5	2671.2
57.5°	23447.8	11769.1	2959.2	2349.3	2575.2	2993.1	3038.3	2851.9	2688.1	2688.1	2665.5
60°	29287.1	15259.1	2626.0	2202.5	2445.3	2891.4	2970.5	2767.2	2626.0	2659.9	2654.3
62.5°	33855.8	16320.8	2343.6	2061.3	2315.4	2705.1	2880.1	2676.8	2552.6	2676.8	2688.1
65°	34832.8	15247.8	2055.6	1908.8	2134.7	2524.4	2750.3	2547.0	2445.3	2688.1	2699.4
66°	34482.7	14412.0	1954.0	1863.6	2055.6	2434.0	2671.2	2501.8	2388.8	2676.8	2682.5
67.5°	32924.0	13158.3	1841.0	1767.6	1948.3	2304.1	2580.8	2439.7	2298.5	2643.0	2592.1
70°	29535.6	11159.2	1649.0	1598.2	1795.9	2089.5	2371.9	2281.5	2157.3	2434.0	2343.6
72.5°	22747.5	8917.2	1445.7	1451.4	1620.8	1869.3	2162.9	2100.8	1993.5	2134.7	2078.2
75°	13852.9	5698.2	1259.4	1270.7	1411.8	1660.3	1965.3	1920.1	1790.2	1869.3	1841.0
77.5°	6138.7	2823.7	1061.7	1084.3	1197.2	1462.7	1711.1	1637.7	1502.2	1519.1	1507.8
80°	2383.2	1338.4	864.0	892.3	965.7	1169.0	1417.5	1349.7	1231.1	1208.5	1197.2
82.5°	1146.4	745.4	666.4	677.7	705.9	931.8	1219.8	1135.1	977.0	875.3	875.3
85°	576.0	463.1	468.7	429.2	468.7	632.5	824.5	689.0	570.4	508.3	519.6
87.5°	231.5	231.5	231.5	197.7	209.0	299.3	384.0	259.8	237.2	141.2	141.2
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)