

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: P476585

Luminaire Tested: **IFLD-L-SA7D-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476585
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

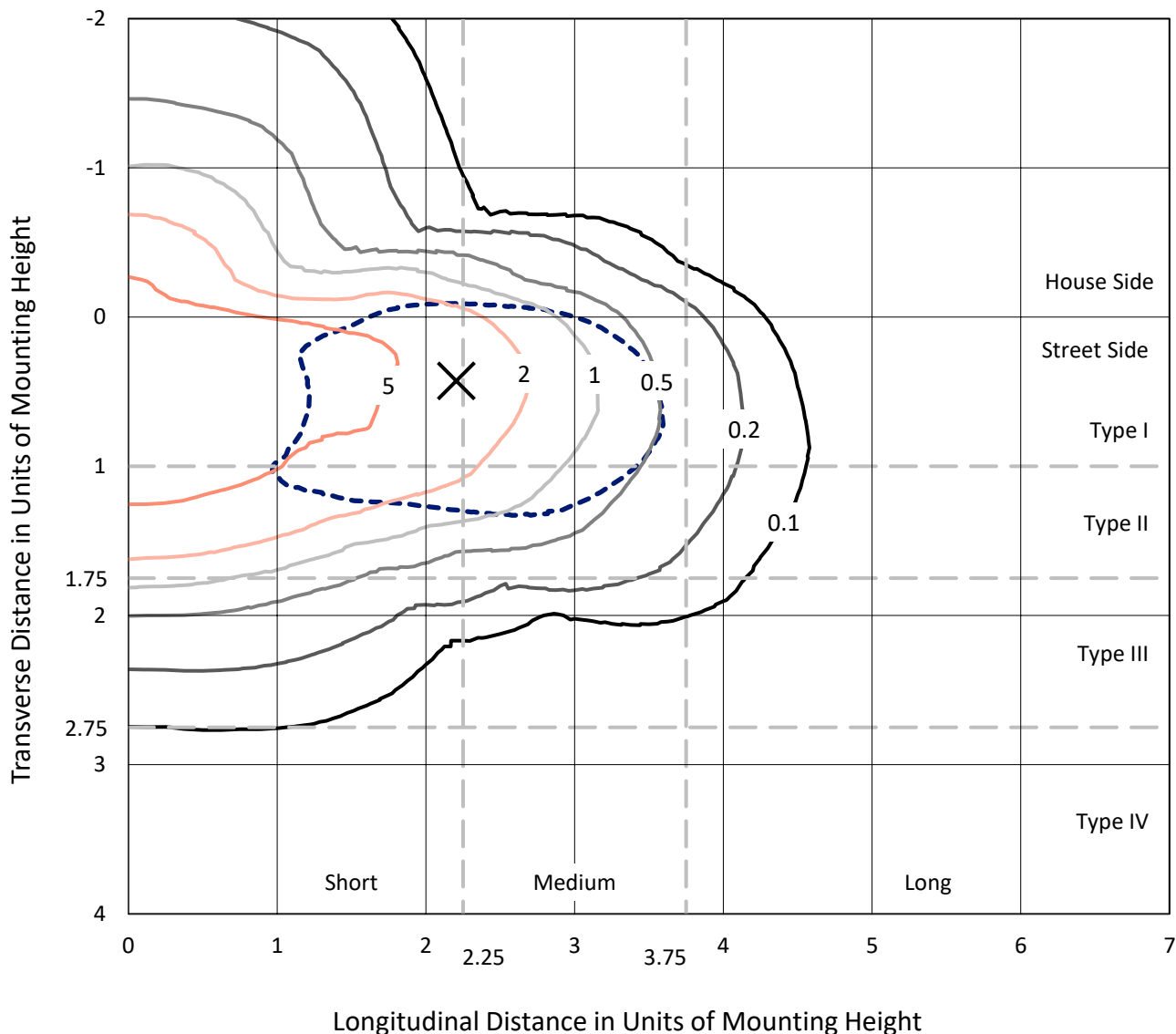
Lumens per Lamp: N/A
Luminaire Lumens: 48052.7 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

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

REPORT NUMBER: P476585
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

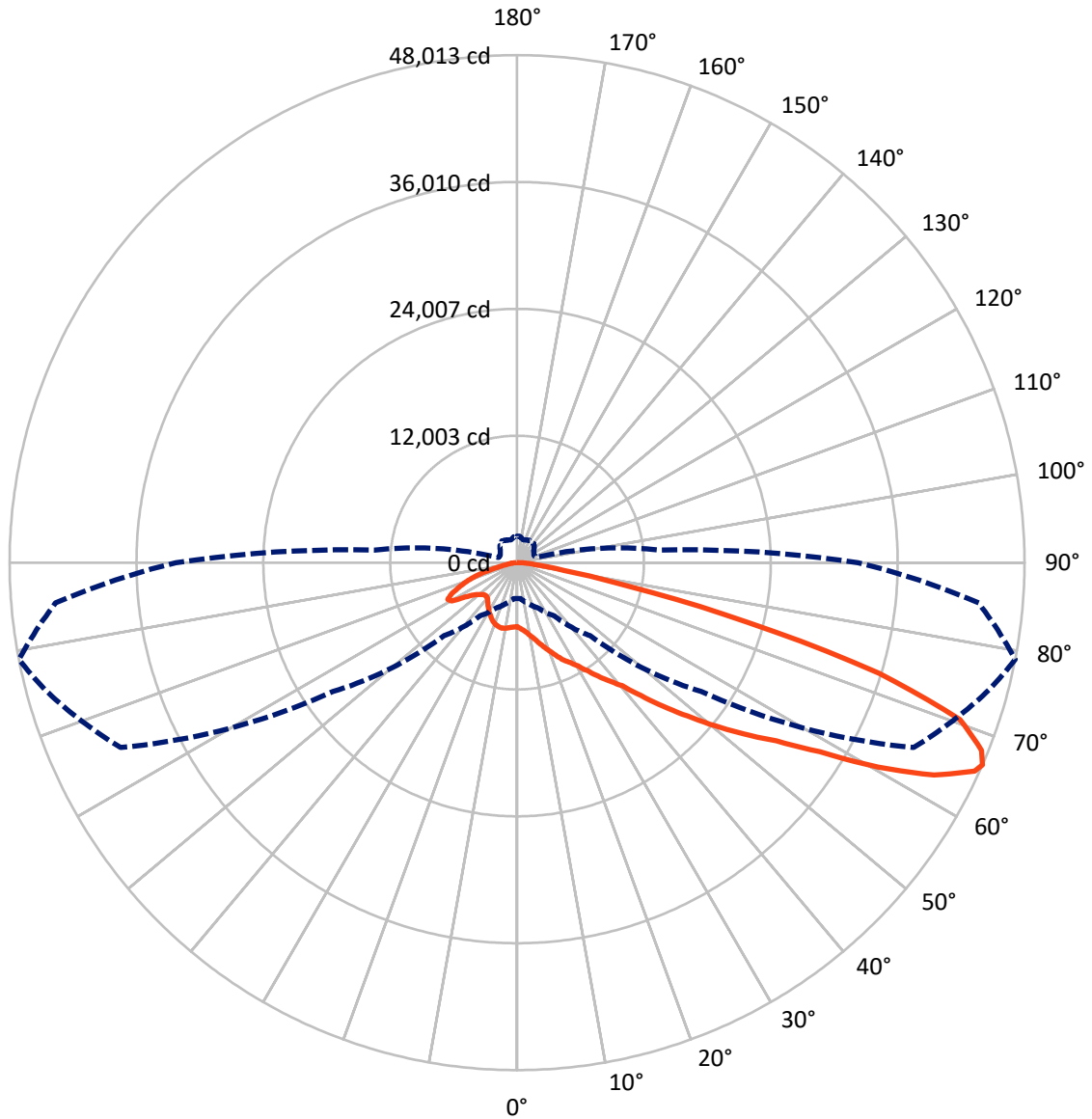
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P476585
CATALOG NUMBER: IFLD-L-SA7D-735-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476585

CATALOG NUMBER: IFLD-L-SA7D-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9703.6	0.0	9703.6
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	38349.1	0.0	38349.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	48052.7	0.0	48052.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.6	1.2
10°-20°	1842.4	3.8
20°-30°	3162.5	6.6
30°-40°	4885.4	10.2
40°-50°	7825.3	16.3
50°-60°	11683.7	24.3
60°-70°	12005.0	25.0
70°-80°	5321.6	11.1
80°-90°	730.2	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°	48052.7	100.0
0°-180°	48052.7	100.0

Coefficient of Utilization



REPORT NUMBER: P476585

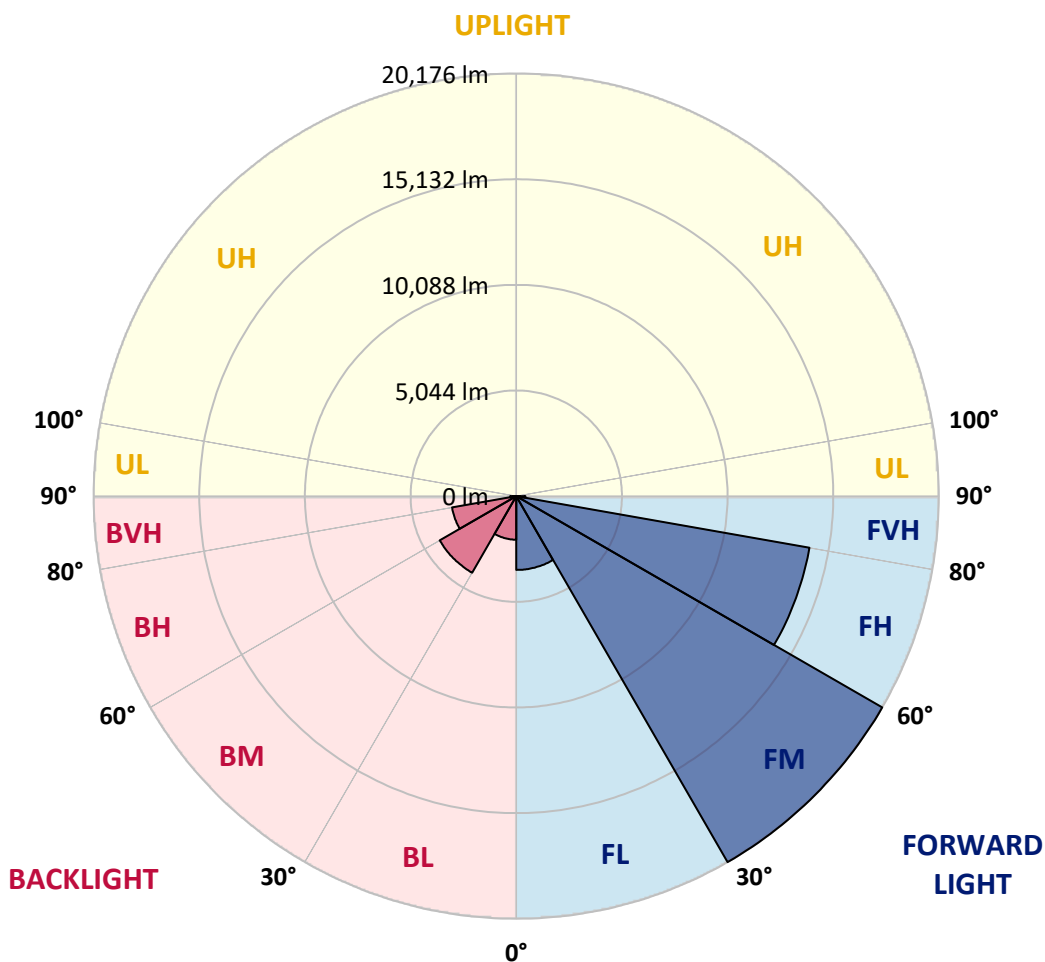
CATALOG NUMBER: IFLD-L-SA7D-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3522.6	7.3			
FM (30°-60°)	20175.7	42.0			
FH (60°-80°)	14212.9	29.6			G5
FVH (80°-90°)	437.9	0.9			G3/500
BL (0°-30°)	2079.0	4.3	B3/2500		
BM (30°-60°)	4218.7	8.8	B3/5000		
BH (60°-80°)	3113.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	292.2	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





REPORT NUMBER: P476585

CATALOG NUMBER: IFLD-L-SA7D-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7
2.5°	6453.6	6458.9	6458.9	6437.7	6443.0	6458.9	6400.7	6273.9	6273.9	6252.7	6215.7
5°	6850.0	6823.6	6786.6	6791.8	6770.7	6770.7	6707.3	6585.7	6480.0	6437.7	6326.7
7.5°	6902.8	6929.3	6924.0	6987.4	7019.1	7019.1	7050.8	6950.4	6791.8	6691.4	6580.4
10°	7008.5	6939.8	6934.5	7082.5	7130.1	7241.1	7368.0	7315.1	7183.0	7040.3	6892.3
12.5°	7072.0	7114.3	7114.3	7188.2	7299.2	7463.1	7685.1	7785.5	7579.4	7431.4	7204.1
15°	7167.1	7109.0	7278.1	7341.5	7552.9	7669.2	7986.4	8245.3	8107.9	7928.2	7568.8
17.5°	7209.4	7172.4	7267.5	7383.8	7743.2	7917.6	8303.5	8662.9	8546.6	8430.3	8060.4
20°	7426.1	7420.8	7463.1	7558.2	7817.2	8160.8	8641.8	9138.6	9180.9	8969.5	8467.3
22.5°	7954.6	7885.9	7885.9	7848.9	7959.9	8314.1	8964.2	9651.3	9841.6	9593.1	8927.2
25°	8440.9	8536.0	8477.9	8308.8	8266.5	8451.5	9196.7	10195.7	10449.4	10216.8	9550.9
27.5°	9064.6	9096.3	9196.7	8969.5	8678.8	8736.9	9450.4	10502.2	11025.5	10713.7	9905.0
30°	9963.1	9905.0	9883.8	9630.1	9249.6	9170.3	9741.1	10951.5	11781.3	11342.6	10322.5
32.5°	10571.0	10713.7	10708.4	10359.5	9899.7	9725.3	10100.5	11374.3	12590.0	12183.0	11094.2
35°	11776.0	11924.0	11807.8	11295.1	10755.9	10407.1	10618.5	11924.0	13515.0	13197.8	11749.6
37.5°	13314.1	13663.0	13414.5	12468.4	11707.3	11326.8	11337.3	12521.3	14461.1	14202.1	12452.6
40°	14376.5	14846.9	14503.3	13615.4	12806.7	12447.3	12304.6	13229.5	15592.2	15317.3	13552.0
42.5°	15692.6	16083.7	15904.0	15026.6	14080.5	13774.0	13488.5	14413.5	17320.5	17193.7	14963.2
45°	17130.2	17315.2	17257.1	16702.1	15650.3	15544.6	14915.6	15972.7	19355.4	19408.3	16728.5
47.5°	18467.5	18567.9	18678.9	18277.2	17621.8	17711.6	16559.4	17642.9	21332.2	21681.0	18694.7
50°	18811.0	19154.6	19413.6	19683.1	19825.8	20433.7	18372.3	19693.7	23604.9	24281.5	20882.9
52.5°	18462.2	18435.7	19223.3	20069.0	21496.0	22769.8	20840.6	22241.3	25613.4	26950.6	22886.1
55°	16876.5	16823.7	18092.2	19212.7	21998.2	24070.1	24366.0	25634.6	28039.5	29778.4	25597.6
57.5°	14101.7	13774.0	15158.7	16998.1	20909.3	24212.8	27907.3	30671.6	31771.0	33753.1	29736.1
60°	9476.9	9339.4	10666.1	12859.6	16977.0	22188.4	30026.8	36977.2	37030.1	39260.5	36157.9
62.5°	5835.2	5861.6	6712.6	8356.3	11887.0	17590.1	29112.4	42014.3	42024.8	44260.6	41443.4
65°	3816.1	3832.0	4519.1	5428.2	7426.1	11929.3	24075.3	42410.7	45497.4	47574.6	43864.2
66°	3398.6	3403.8	3995.8	4735.8	6152.3	9762.3	21263.5	41380.0	46279.6	48013.3	43832.5
67.5°	2864.7	2933.4	3409.1	3980.0	4799.2	7013.8	16871.2	38399.0	45877.9	47400.2	42838.8
70°	2241.0	2278.0	2653.3	3234.7	3599.4	4059.2	10026.5	31300.6	41993.1	44461.4	39223.5
72.5°	1797.1	1828.8	2114.2	2626.9	2922.9	2674.5	5459.9	22711.7	33171.7	35803.8	30851.3
75°	1516.9	1522.2	1659.6	2066.6	2404.9	2008.5	2907.0	14577.3	21284.6	22510.8	18900.9
77.5°	1226.2	1247.4	1342.5	1575.1	1934.5	1580.4	1733.6	8166.1	10687.2	10777.1	8736.9
80°	999.0	1009.5	1067.7	1146.9	1474.6	1168.1	1173.4	3985.2	4582.5	4476.8	3551.8
82.5°	787.5	798.1	866.8	851.0	1083.5	835.1	729.4	1918.6	2108.9	2066.6	1633.2
85°	444.0	444.0	681.8	681.8	687.1	528.5	444.0	903.8	1115.2	1041.2	766.4
87.5°	142.7	148.0	206.1	216.7	343.6	237.8	216.7	338.3	528.5	465.1	274.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476585
 CATALOG NUMBER: IFLD-L-SA7D-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7	6067.7
2.5°	6194.6	6110.0	6073.0	5951.4	5919.7	5840.5	5803.5	5755.9	5740.0	5671.3	5734.7
5°	6242.1	6215.7	6067.7	5914.4	5798.2	5745.3	5666.0	5560.3	5549.8	5454.6	5444.0
7.5°	6443.0	6353.1	6094.2	5930.3	5697.7	5565.6	5391.2	5338.3	5269.6	5237.9	5306.6
10°	6754.8	6527.6	6141.7	5729.5	5444.0	5285.5	5158.6	5121.6	5126.9	5105.8	5074.1
12.5°	6976.8	6760.1	6062.4	5560.3	5190.3	5037.1	5026.5	5063.5	5121.6	5095.2	5132.2
15°	7294.0	6887.0	6004.3	5280.2	4984.2	4941.9	4936.6	5047.6	5042.3	5042.3	5037.1
17.5°	7589.9	7013.8	5792.9	5037.1	4767.5	4799.2	4836.2	4830.9	4883.8	4904.9	4941.9
20°	7965.2	7161.8	5496.9	4793.9	4603.7	4593.1	4587.8	4593.1	4645.9	4677.6	4651.2
22.5°	8292.9	7193.5	5248.5	4561.4	4408.1	4365.8	4297.1	4365.8	4339.4	4349.9	4381.7
25°	8578.3	7198.8	4894.4	4386.9	4212.5	4117.4	4064.5	4059.2	4011.7	4006.4	4006.4
27.5°	8816.2	7019.1	4582.5	4143.8	3980.0	3890.1	3884.8	3826.7	3705.1	3625.8	3636.4
30°	9001.2	6881.7	4365.8	3932.4	3773.8	3758.0	3710.4	3578.3	3419.7	3319.3	3319.3
32.5°	9328.9	6606.8	4069.8	3715.7	3636.4	3615.3	3504.3	3388.0	3240.0	3144.9	3129.0
35°	9572.0	6353.1	3874.3	3530.7	3493.7	3451.4	3356.3	3229.4	3187.1	3166.0	3181.9
37.5°	9846.8	6067.7	3636.4	3372.1	3409.1	3329.9	3218.9	3160.7	3308.7	3271.7	3287.6
40°	10285.5	5866.9	3403.8	3277.0	3314.0	3224.1	3081.4	3060.3	3245.3	3113.1	3081.4
42.5°	11088.9	5861.6	3261.1	3134.3	3160.7	3092.0	2965.2	2954.6	3028.6	2870.0	2822.4
45°	12087.9	6046.6	3155.4	3028.6	3007.4	2996.9	2954.6	2907.0	2843.6	2637.5	2584.6
47.5°	13282.4	6347.9	3134.3	2870.0	2896.4	2986.3	2933.4	2811.9	2648.0	2515.9	2489.5
50°	14730.6	6971.5	3081.4	2753.7	2801.3	2944.0	2901.7	2732.6	2584.6	2500.0	2484.2
52.5°	16332.1	7759.1	3012.7	2574.0	2679.7	2907.0	2928.2	2769.6	2552.9	2478.9	2468.3
55°	18219.0	8921.9	2933.4	2378.5	2537.0	2870.0	2928.2	2663.9	2510.6	2510.6	2500.0
57.5°	21945.3	11014.9	2769.6	2198.8	2410.2	2801.3	2843.6	2669.2	2515.9	2515.9	2494.7
60°	27410.5	14281.4	2457.7	2061.3	2288.6	2706.2	2780.2	2589.9	2457.7	2489.5	2484.2
62.5°	31686.4	15275.0	2193.5	1929.2	2167.0	2531.7	2695.6	2505.3	2389.0	2505.3	2515.9
65°	32600.8	14270.8	1923.9	1786.5	1997.9	2362.6	2574.0	2383.8	2288.6	2515.9	2526.5
66°	32273.1	13488.5	1828.8	1744.2	1923.9	2278.0	2500.0	2341.5	2235.8	2505.3	2510.6
67.5°	30814.3	12315.2	1723.1	1654.4	1823.5	2156.5	2415.5	2283.3	2151.2	2473.6	2426.0
70°	27643.0	10444.1	1543.4	1495.8	1680.8	1955.6	2219.9	2135.3	2019.1	2278.0	2193.5
72.5°	21289.9	8345.8	1353.1	1358.4	1516.9	1749.5	2024.3	1966.2	1865.8	1997.9	1945.1
75°	12965.3	5333.0	1178.7	1189.2	1321.4	1553.9	1839.3	1797.1	1675.5	1749.5	1723.1
77.5°	5745.3	2642.7	993.7	1014.8	1120.5	1368.9	1601.5	1532.8	1405.9	1421.8	1411.2
80°	2230.5	1252.7	808.7	835.1	903.8	1094.1	1326.7	1263.2	1152.2	1131.1	1120.5
82.5°	1073.0	697.7	623.7	634.3	660.7	872.1	1141.7	1062.4	914.4	819.2	819.2
85°	539.1	433.4	438.7	401.7	438.7	592.0	771.7	644.8	533.8	475.7	486.3
87.5°	216.7	216.7	216.7	185.0	195.6	280.1	359.4	243.1	222.0	132.1	132.1
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)