

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: P476545

Luminaire Tested: **IFLD-L-SA7C-730-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476545
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

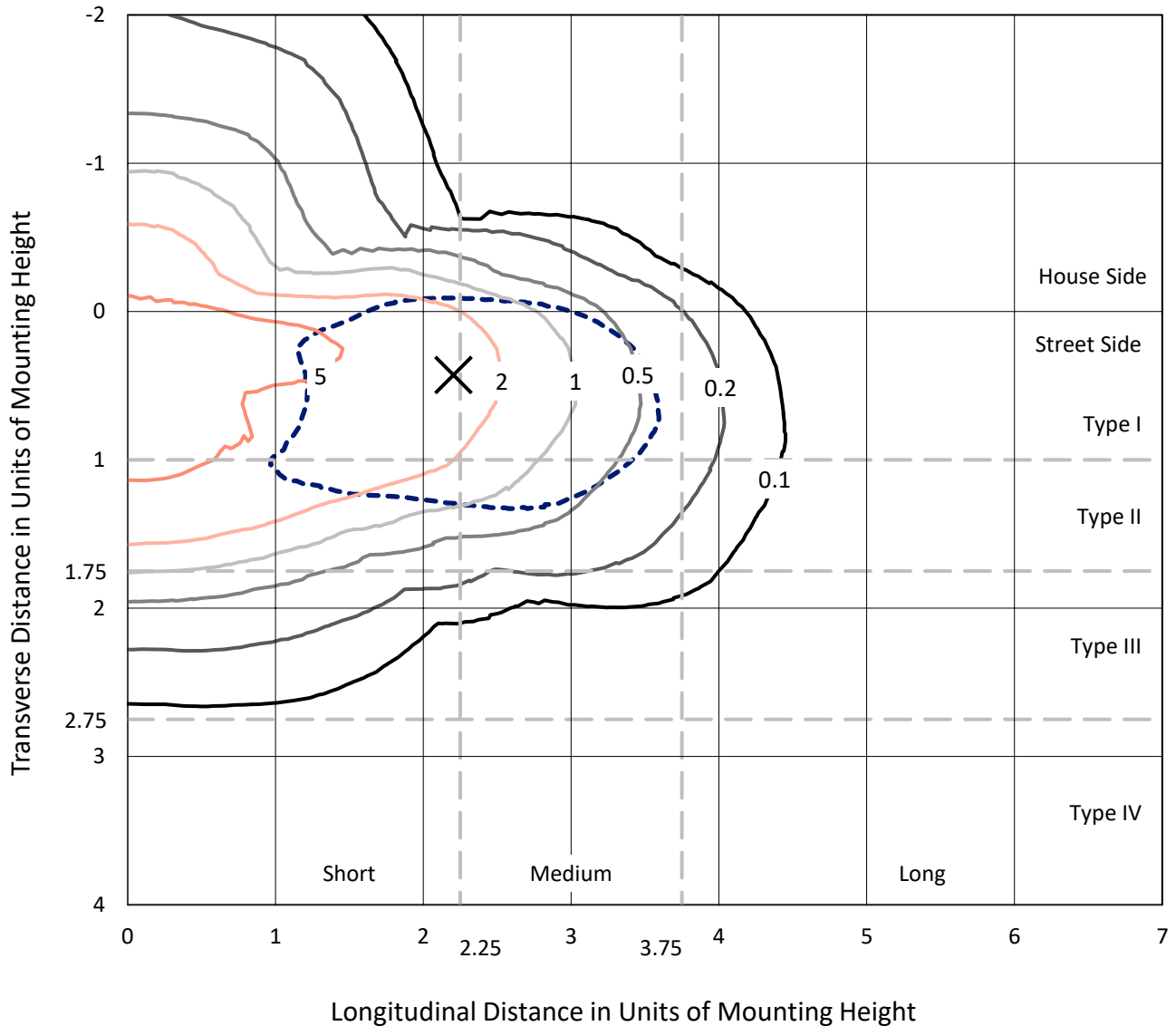
Lumens per Lamp: N/A
Luminaire Lumens: 40319 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 369
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: P476545
 CATALOG NUMBER: IFLD-L-SA7C-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

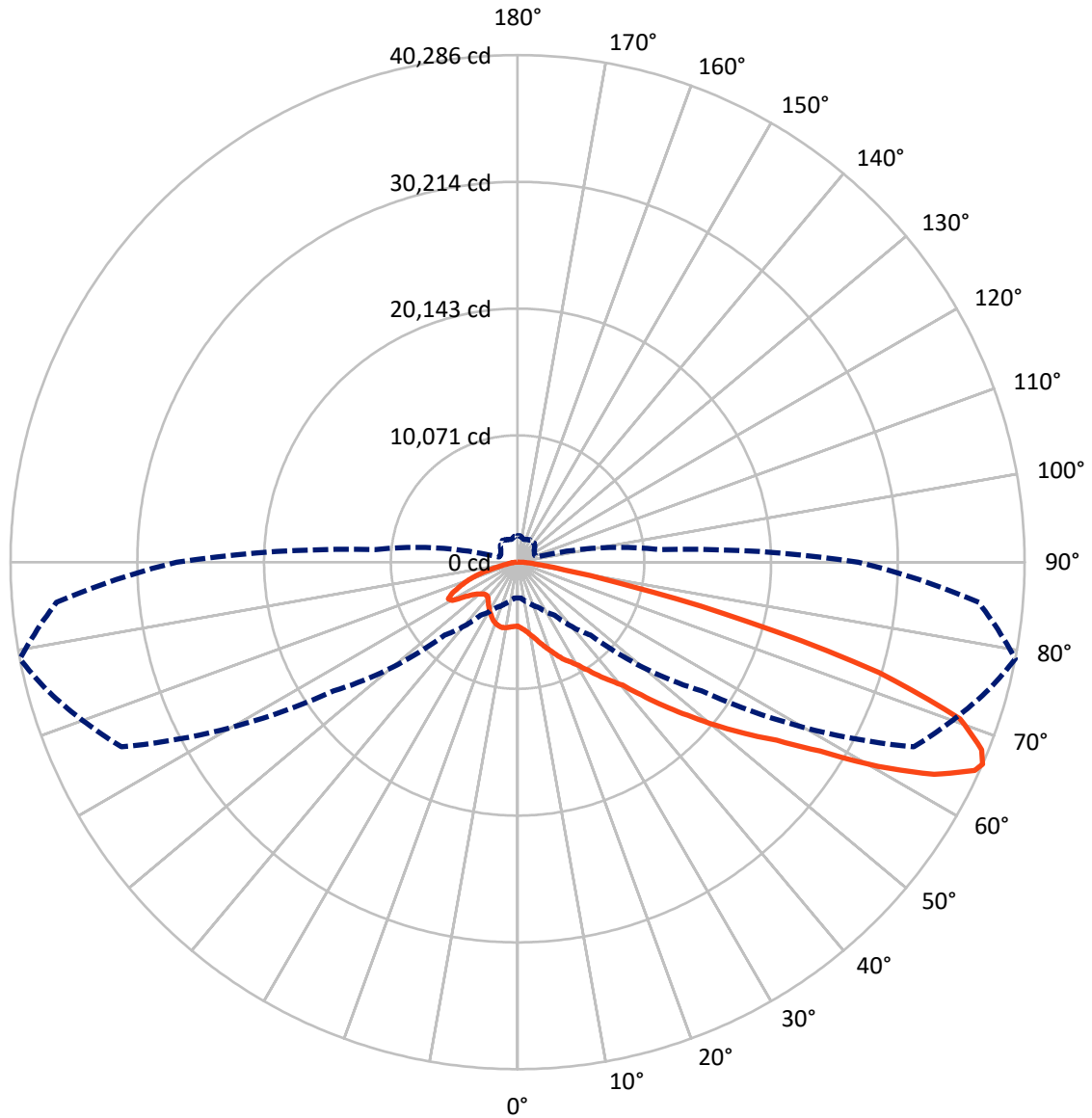
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

REPORT NUMBER: P476545
CATALOG NUMBER: IFLD-L-SA7C-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476545
 CATALOG NUMBER: IFLD-L-SA7C-730-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8141.9	0.0	8141.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	32177.1	0.0	32177.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	40319.0	0.0	40319.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	1.2
10°-20°	1545.9	3.8
20°-30°	2653.5	6.6
30°-40°	4099.2	10.2
40°-50°	6565.8	16.3
50°-60°	9803.3	24.3
60°-70°	10072.9	25.0
70°-80°	4465.1	11.1
80°-90°	612.7	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°	40319.0	100.0
0°-180°	40319.0	100.0



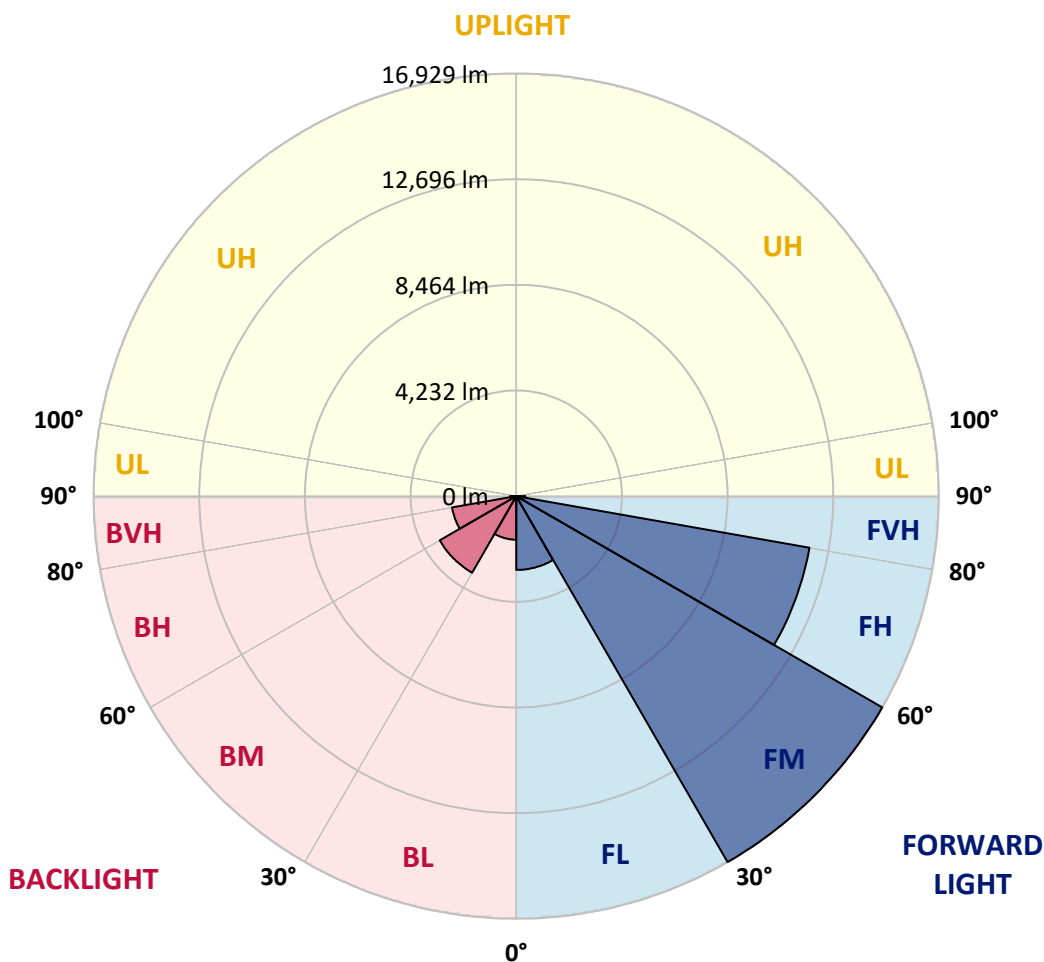
REPORT NUMBER: P476545
 CATALOG NUMBER: IFLD-L-SA7C-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.6	7.3			
FM (30°-60°)	16928.6	42.0			
FH (60°-80°)	11925.4	29.6			G4/12000
FVH (80°-90°)	367.5	0.9			G3/500
BL (0°-30°)	1744.4	4.3	B3/2500		
BM (30°-60°)	3539.7	8.8	B3/5000		
BH (60°-80°)	2612.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	245.2	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-G4

Type II Short





REPORT NUMBER: P476545

CATALOG NUMBER: IFLD-L-SA7C-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2
2.5°	5414.9	5419.3	5419.3	5401.6	5406.0	5419.3	5370.6	5264.1	5264.1	5246.4	5215.3
5°	5747.5	5725.3	5694.3	5698.7	5681.0	5681.0	5627.8	5525.8	5437.1	5401.6	5308.5
7.5°	5791.9	5814.0	5809.6	5862.8	5889.4	5889.4	5916.0	5831.8	5698.7	5614.5	5521.3
10°	5880.6	5822.9	5818.5	5942.7	5982.6	6075.7	6182.1	6137.8	6026.9	5907.2	5783.0
12.5°	5933.8	5969.3	5969.3	6031.3	6124.5	6262.0	6448.2	6532.5	6359.5	6235.3	6044.7
15°	6013.6	5964.8	6106.7	6160.0	6337.3	6434.9	6701.0	6918.3	6803.0	6652.2	6350.7
17.5°	6049.1	6018.0	6097.9	6195.4	6497.0	6643.4	6967.1	7268.7	7171.1	7073.5	6763.1
20°	6230.9	6226.5	6262.0	6341.8	6559.1	6847.4	7250.9	7667.8	7703.3	7525.9	7104.6
22.5°	6674.4	6616.7	6616.7	6585.7	6678.8	6976.0	7521.4	8098.0	8257.6	8049.2	7490.4
25°	7082.4	7162.2	7113.4	6971.5	6936.0	7091.3	7716.6	8554.8	8767.6	8572.5	8013.7
27.5°	7605.7	7632.3	7716.6	7525.9	7282.0	7330.7	7929.4	8812.0	9251.0	8989.4	8310.8
30°	8359.6	8310.8	8293.1	8080.2	7760.9	7694.4	8173.4	9188.9	9885.2	9517.1	8661.2
32.5°	8869.6	8989.4	8984.9	8692.2	8306.4	8160.1	8474.9	9543.7	10563.7	10222.2	9308.7
35°	9880.8	10004.9	9907.4	9477.2	9024.8	8732.1	8909.5	10004.9	11339.8	11073.7	9858.6
37.5°	11171.3	11464.0	11255.6	10461.7	9823.1	9503.8	9512.7	10506.1	12133.7	11916.3	10448.4
40°	12062.7	12457.4	12169.1	11424.1	10745.6	10444.0	10324.2	11100.3	13082.7	12852.1	11370.9
42.5°	13167.0	13495.1	13344.4	12608.2	11814.3	11557.1	11317.6	12093.7	14532.9	14426.4	12555.0
45°	14373.2	14528.4	14479.7	14014.0	13131.5	13042.8	12515.0	13402.0	16240.3	16284.6	14036.2
47.5°	15495.2	15579.5	15672.6	15335.6	14785.7	14861.1	13894.3	14803.4	17898.9	18191.6	15685.9
50°	15783.5	16071.8	16289.1	16515.2	16635.0	17145.0	15415.4	16524.1	19805.9	20373.5	17521.9
52.5°	15490.8	15468.6	16129.4	16839.0	18036.4	19105.2	17486.5	18661.7	21491.1	22613.1	19202.7
55°	14160.4	14116.0	15180.4	16120.5	18457.7	20196.1	20444.5	21508.8	23526.7	24985.7	21477.8
57.5°	11832.1	11557.1	12719.0	14262.4	17544.1	20315.9	23415.8	25735.2	26657.7	28320.7	24950.3
60°	7951.6	7836.3	8949.5	10789.9	14244.6	18617.3	25194.2	31026.0	31070.3	32941.8	30338.6
62.5°	4896.0	4918.2	5632.2	7011.4	9973.9	14759.1	24427.0	35252.3	35261.2	37137.1	34773.4
65°	3201.9	3215.2	3791.8	4554.6	6230.9	10009.4	20200.6	35584.9	38174.9	39917.8	36804.5
66°	2851.6	2856.0	3352.7	3973.6	5162.1	8191.1	17841.3	34720.2	38831.2	40285.8	36777.9
67.5°	2403.7	2461.3	2860.5	3339.4	4026.8	5885.0	14155.9	32218.9	38494.2	39771.4	35944.2
70°	1880.4	1911.4	2226.3	2714.1	3020.1	3405.9	8412.8	26263.0	35234.6	37305.7	32910.8
72.5°	1507.8	1534.4	1773.9	2204.1	2452.5	2244.0	4581.2	19056.4	27832.9	30041.4	25886.0
75°	1272.8	1277.2	1392.5	1734.0	2017.8	1685.2	2439.1	12231.2	17859.0	18887.9	15858.9
77.5°	1028.9	1046.6	1126.4	1321.6	1623.1	1326.0	1454.6	6851.8	8967.2	9042.6	7330.7
80°	838.2	847.0	895.8	962.4	1237.3	980.1	984.5	3343.8	3845.0	3756.3	2980.2
82.5°	660.8	669.7	727.3	714.0	909.1	700.7	612.0	1609.8	1769.5	1734.0	1370.4
85°	372.5	372.5	572.1	572.1	576.5	443.5	372.5	758.4	935.7	873.7	643.0
87.5°	119.7	124.2	173.0	181.8	288.3	199.6	181.8	283.8	443.5	390.3	230.6
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: P476545
 CATALOG NUMBER: IFLD-L-SA7C-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2	5091.2
2.5°	5197.6	5126.6	5095.6	4993.6	4967.0	4900.5	4869.4	4829.5	4816.2	4758.6	4811.8
5°	5237.5	5215.3	5091.2	4962.6	4865.0	4820.6	4754.1	4665.4	4656.6	4576.7	4567.9
7.5°	5406.0	5330.6	5113.3	4975.9	4780.7	4669.9	4523.5	4479.2	4421.5	4394.9	4452.6
10°	5667.7	5477.0	5153.3	4807.3	4567.9	4434.8	4328.4	4297.3	4301.8	4284.0	4257.4
12.5°	5854.0	5672.1	5086.7	4665.4	4355.0	4226.4	4217.5	4248.6	4297.3	4275.2	4306.2
15°	6120.0	5778.6	5037.9	4430.4	4182.0	4146.6	4142.1	4235.2	4230.8	4230.8	4226.4
17.5°	6368.4	5885.0	4860.6	4226.4	4000.2	4026.8	4057.9	4053.4	4097.8	4115.5	4146.6
20°	6683.3	6009.2	4612.2	4022.4	3862.7	3853.9	3849.4	3853.9	3898.2	3924.8	3902.6
22.5°	6958.2	6035.8	4403.8	3827.2	3698.6	3663.2	3605.5	3663.2	3641.0	3649.9	3676.5
25°	7197.7	6040.2	4106.6	3680.9	3534.5	3454.7	3410.4	3405.9	3366.0	3361.6	3361.6
27.5°	7397.3	5889.4	3845.0	3476.9	3339.4	3264.0	3259.6	3210.8	3108.8	3042.3	3051.2
30°	7552.5	5774.1	3663.2	3299.5	3166.5	3153.2	3113.2	3002.4	2869.3	2785.1	2785.1
32.5°	7827.4	5543.5	3414.8	3117.7	3051.2	3033.4	2940.3	2842.7	2718.5	2638.7	2625.4
35°	8031.4	5330.6	3250.7	2962.5	2931.4	2895.9	2816.1	2709.7	2674.2	2656.5	2669.8
37.5°	8262.1	5091.2	3051.2	2829.4	2860.5	2793.9	2700.8	2652.0	2776.2	2745.1	2758.5
40°	8630.1	4922.6	2856.0	2749.6	2780.6	2705.2	2585.5	2567.8	2723.0	2612.1	2585.5
42.5°	9304.2	4918.2	2736.3	2629.8	2652.0	2594.4	2487.9	2479.1	2541.1	2408.1	2368.2
45°	10142.4	5073.4	2647.6	2541.1	2523.4	2514.5	2479.1	2439.1	2385.9	2213.0	2168.6
47.5°	11144.7	5326.2	2629.8	2408.1	2430.3	2505.7	2461.3	2359.3	2221.8	2111.0	2088.8
50°	12359.8	5849.5	2585.5	2310.5	2350.5	2470.2	2434.7	2292.8	2168.6	2097.7	2084.4
52.5°	13703.6	6510.3	2527.8	2159.8	2248.5	2439.1	2456.9	2323.8	2142.0	2079.9	2071.1
55°	15286.8	7486.0	2461.3	1995.7	2128.7	2408.1	2456.9	2235.1	2106.5	2106.5	2097.7
57.5°	18413.3	9242.2	2323.8	1844.9	2022.3	2350.5	2385.9	2239.6	2111.0	2111.0	2093.2
60°	22998.9	11982.9	2062.2	1729.6	1920.3	2270.6	2332.7	2173.1	2062.2	2088.8	2084.4
62.5°	26586.7	12816.6	1840.4	1618.7	1818.3	2124.3	2261.8	2102.1	2004.5	2102.1	2111.0
65°	27353.9	11974.0	1614.3	1499.0	1676.4	1982.4	2159.8	2000.1	1920.3	2111.0	2119.8
66°	27079.0	11317.6	1534.4	1463.5	1614.3	1911.4	2097.7	1964.6	1875.9	2102.1	2106.5
67.5°	25855.0	10333.1	1445.7	1388.1	1530.0	1809.4	2026.7	1915.8	1805.0	2075.5	2035.6
70°	23194.1	8763.2	1295.0	1255.1	1410.3	1640.9	1862.6	1791.7	1694.1	1911.4	1840.4
72.5°	17863.4	7002.6	1135.3	1139.7	1272.8	1467.9	1698.5	1649.8	1565.5	1676.4	1632.0
75°	10878.6	4474.7	989.0	997.8	1108.7	1303.8	1543.3	1507.8	1405.8	1467.9	1445.7
77.5°	4820.6	2217.4	833.7	851.5	940.2	1148.6	1343.7	1286.1	1179.7	1193.0	1184.1
80°	1871.5	1051.1	678.5	700.7	758.4	918.0	1113.1	1059.9	966.8	949.1	940.2
82.5°	900.3	585.4	523.3	532.2	554.4	731.7	957.9	891.4	767.2	687.4	687.4
85°	452.4	363.7	368.1	337.0	368.1	496.7	647.5	541.0	447.9	399.1	408.0
87.5°	181.8	181.8	181.8	155.2	164.1	235.0	301.6	204.0	186.3	110.9	110.9
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)