

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: P478065

Luminaire Tested: **IFLD-L-SA7B-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

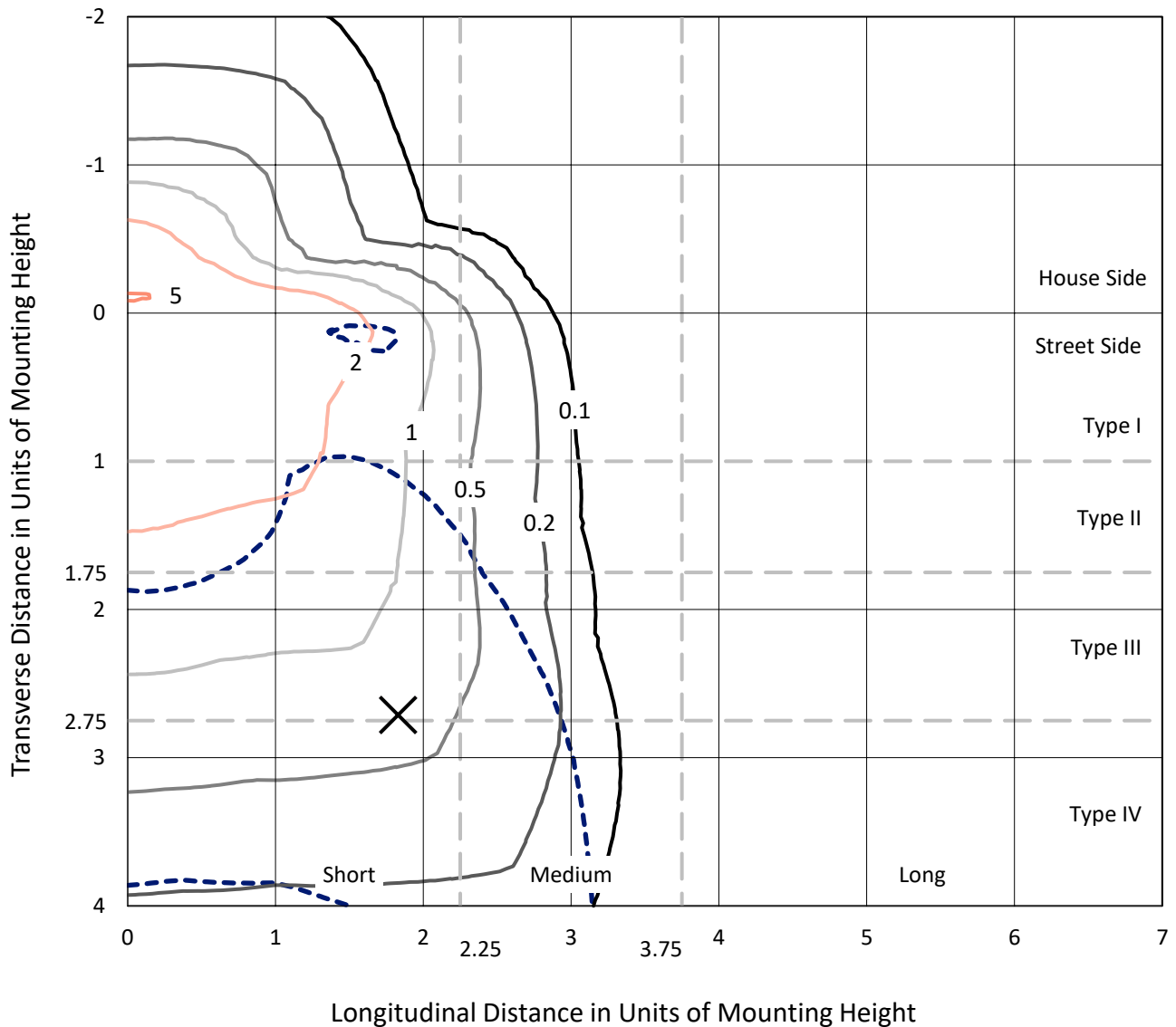
Lumens per Lamp: N/A
Luminaire Lumens: 30511.8 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

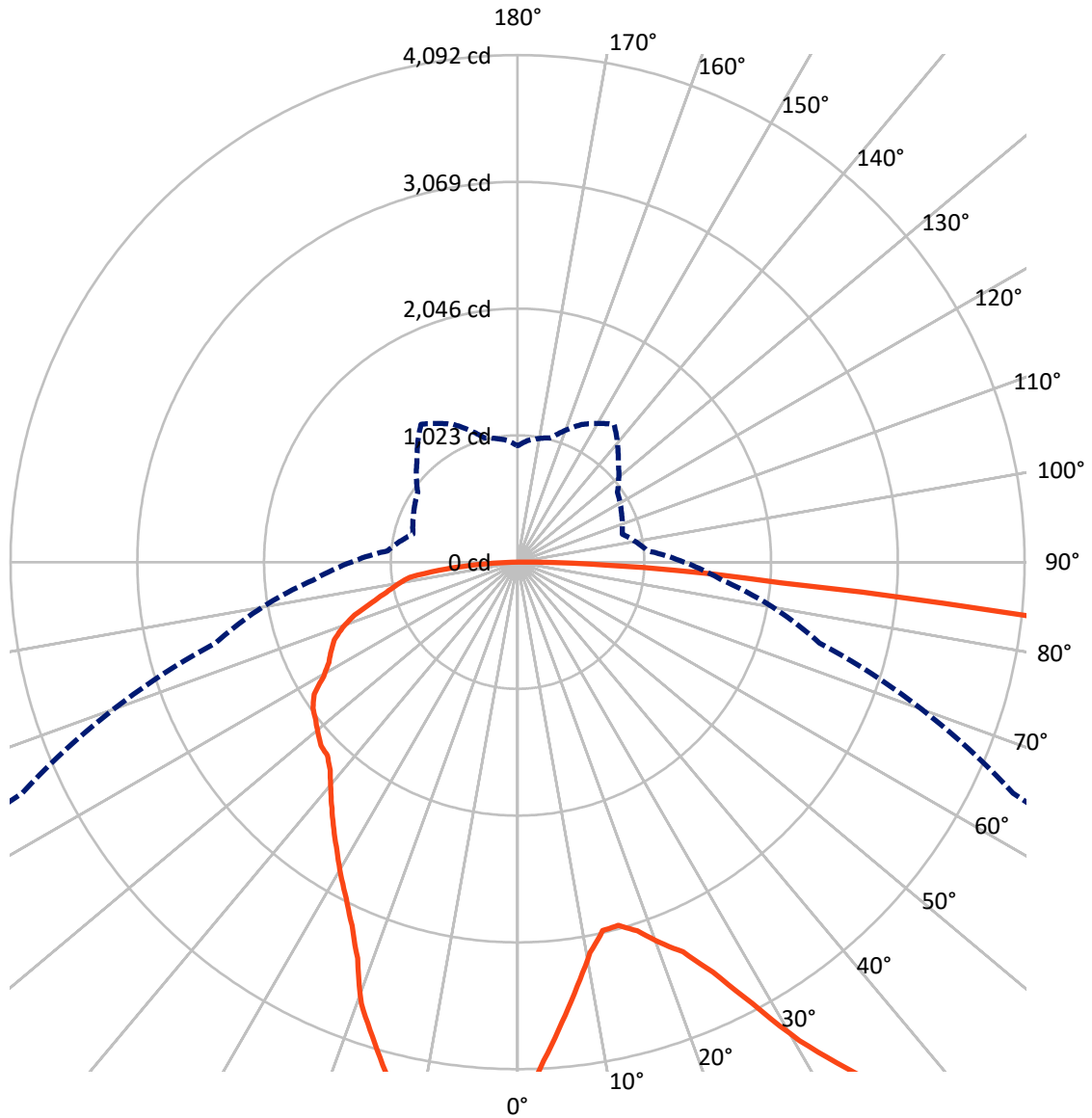
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6590.9	0.0	6590.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23920.9	0.0	23920.9
	% Fixture	78.4	0.0	78.4
Total	Lumens	30511.8	0.0	30511.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.7	1.3
10°-20°	1129.9	3.7
20°-30°	1859.6	6.1
30°-40°	2781.0	9.1
40°-50°	4122.8	13.5
50°-60°	5941.3	19.5
60°-70°	7581.9	24.8
70°-80°	5900.0	19.3
80°-90°	791.5	2.6
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°	30511.8	100.0
0°-180°	30511.8	100.0

Coefficient of Utilization



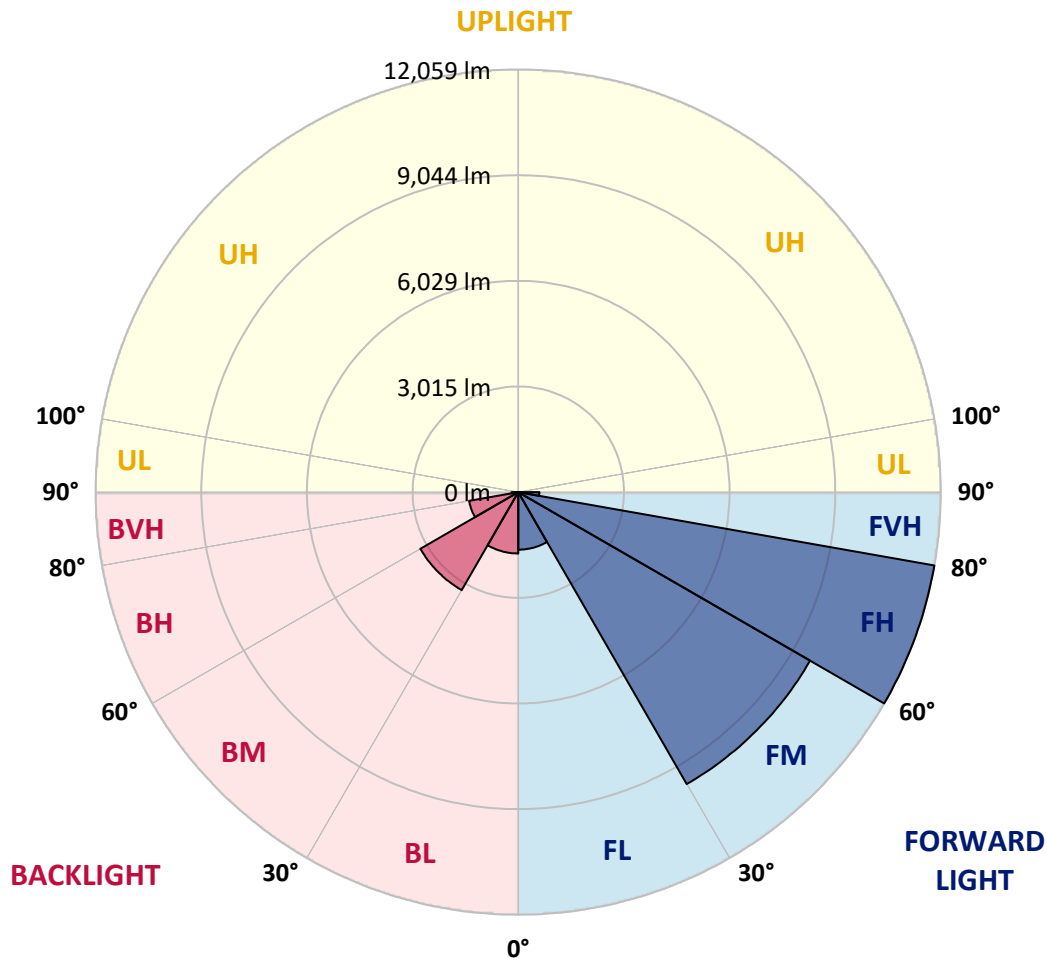
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.1	5.4			
FM (30°-60°)	9617.5	31.5			
FH (60°-80°)	12058.8	39.5			G5
FVH (80°-90°)	602.5	2.0			G4/750
BL (0°-30°)	1751.2	5.7	B3/2500		
BM (30°-60°)	3227.6	10.6	B3/5000		
BH (60°-80°)	1423.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	189.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3
2.5°	3919.5	3932.4	3974.3	3984.0	4029.2	4003.4	4058.2	4155.0	4209.8	4290.5	4387.2
5°	3609.8	3555.0	3580.8	3680.8	3732.4	3745.3	3803.4	3967.9	4071.1	4190.5	4371.1
7.5°	3245.3	3235.6	3287.2	3351.7	3455.0	3464.6	3593.7	3738.8	3951.7	4216.3	4429.2
10°	2996.9	3038.8	3067.8	3135.6	3206.6	3206.6	3371.1	3622.7	3864.6	4119.5	4442.1
12.5°	2984.0	2958.2	2964.6	3000.1	3051.7	3116.2	3271.1	3496.9	3803.4	4100.1	4496.9
15°	3025.9	3035.6	2977.5	3022.7	3042.0	3064.6	3235.6	3490.4	3764.6	4167.9	4590.5
17.5°	3248.5	3193.7	3103.3	3061.4	3129.1	3129.1	3245.3	3445.3	3771.1	4203.4	4726.0
20°	3422.7	3422.7	3274.3	3229.1	3277.5	3267.9	3348.5	3496.9	3803.4	4274.3	4877.6
22.5°	3716.3	3758.2	3513.0	3419.5	3416.2	3442.1	3513.0	3638.8	3893.7	4374.3	5022.8
25°	4138.9	4148.5	3864.6	3767.9	3664.6	3706.6	3719.5	3845.3	3974.3	4490.5	5187.3
27.5°	4609.8	4603.4	4342.1	4100.1	4032.4	4042.1	3971.1	4055.0	4093.7	4526.0	5422.8
30°	5132.4	5074.4	4877.6	4535.6	4480.8	4419.5	4264.7	4261.4	4342.1	4726.0	5748.6
32.5°	5474.4	5400.2	5264.7	5019.5	4867.9	4874.4	4629.2	4626.0	4555.0	4945.3	6032.5
35°	5809.9	5697.0	5661.5	5409.9	5258.2	5274.4	5077.6	5051.8	4922.8	5277.6	6500.2
37.5°	6213.1	6113.1	6168.0	5977.6	5790.5	5713.1	5622.8	5590.5	5422.8	5745.4	7139.0
40°	6658.3	6626.0	6590.6	6497.0	6384.1	6390.5	6293.8	6261.5	6013.1	6309.9	7751.9
42.5°	7258.3	7135.7	6951.9	7013.1	7071.2	7132.5	7100.2	7016.4	6758.3	6884.1	8435.8
45°	7816.4	7655.1	7316.4	7335.7	7574.5	7622.8	8013.2	8003.5	7484.1	7613.2	9213.2
47.5°	8193.8	8119.6	7916.4	7893.8	8235.8	8232.5	8935.8	8935.8	8248.7	8339.0	10048.7
50°	8755.1	8561.6	8474.5	8587.4	8761.6	8881.0	9877.8	9939.1	9000.3	9097.1	11142.3
52.5°	9413.2	9171.3	8951.9	9242.3	9551.9	9629.4	10810.1	10784.2	9577.8	9977.8	12423.0
55°	9958.4	9835.8	9684.2	9852.0	10358.4	10455.2	11745.6	11506.8	10155.2	10706.8	13039.2
57.5°	10593.9	10668.1	10700.4	10658.4	11261.7	11413.3	12813.3	12129.5	10652.0	11197.2	13400.5
60°	11552.0	11597.2	11639.1	11739.1	12377.8	12590.8	13658.5	12910.1	10964.9	11481.0	13429.5
62.5°	13010.1	12835.9	12929.5	13274.7	13787.6	14029.5	14903.7	13458.5	11203.6	11652.0	12481.1
65°	14677.9	14442.4	14345.7	14790.8	16119.9	15926.4	16458.6	13868.2	10858.4	11013.3	10584.2
67.5°	16368.3	16394.1	16145.7	17039.3	18668.4	18668.4	17903.8	14065.0	9922.9	8926.1	7422.8
70°	17710.3	17790.9	17926.4	19658.7	22239.5	22629.8	19694.2	13258.5	8016.4	5942.1	4058.2
72.5°	17690.9	17449.0	18142.6	21333.0	25484.8	25158.9	20068.4	10484.2	5003.4	2909.8	1861.4
73°	17294.1	17090.9	17849.0	21316.9	25617.0	25310.6	19794.2	9664.9	4413.1	2522.7	1654.9
75°	14123.1	13755.3	15045.7	19307.1	23700.8	23936.3	16816.7	6303.4	2419.4	1554.9	1164.6
77.5°	6438.9	6600.2	8280.9	12952.1	18265.1	18542.6	11055.2	2725.9	1325.9	1090.4	858.1
80°	2067.8	2171.0	3222.7	6438.9	11448.8	11948.8	5109.9	1238.8	945.2	835.5	642.0
82.5°	790.3	787.1	1351.7	2677.5	5426.0	5745.4	1867.8	754.9	703.3	616.2	454.9
85°	277.4	290.3	509.7	1058.1	2135.6	2235.6	648.4	419.4	487.1	412.9	261.3
87.5°	96.8	100.0	180.7	383.9	735.5	777.4	180.7	167.7	241.9	238.7	132.3
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°	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3	4374.3
2.5°	4419.5	4448.5	4458.2	4574.4	4574.4	4574.4	4619.5	4619.5	4606.6	4574.4	4651.8
5°	4438.9	4490.5	4590.5	4690.5	4716.3	4738.9	4800.2	4748.6	4767.9	4735.6	4764.7
7.5°	4493.7	4564.7	4751.8	4813.1	4771.1	4819.5	4755.0	4719.5	4684.0	4696.9	4651.8
10°	4587.3	4677.6	4764.7	4877.6	4796.9	4748.6	4616.3	4584.0	4471.1	4432.4	4467.9
12.5°	4703.4	4813.1	4961.5	4919.5	4764.7	4626.0	4484.0	4348.5	4280.8	4184.0	4209.8
15°	4819.5	4945.3	4967.9	4896.9	4703.4	4529.2	4271.1	4080.8	4013.0	3925.9	3971.1
17.5°	4945.3	5064.7	5026.0	4842.1	4580.8	4316.3	4022.7	3835.6	3693.7	3638.8	3638.8
20°	5132.4	5190.5	5129.2	4751.8	4432.4	4084.0	3800.1	3587.2	3445.3	3422.7	3387.2
22.5°	5277.6	5371.2	5097.0	4619.5	4216.3	3780.8	3455.0	3374.3	3332.4	3296.9	3251.7
25°	5464.7	5461.5	5038.9	4496.9	3845.3	3419.5	3222.7	3216.2	3196.9	3184.0	3245.3
27.5°	5642.1	5567.9	4971.1	4193.7	3461.4	3145.3	3038.8	3109.8	3138.8	3119.5	3145.3
30°	5922.8	5800.2	4874.4	3871.1	3122.7	2867.8	2887.2	2984.0	3032.4	3061.4	3022.7
32.5°	6219.6	6032.5	4674.4	3535.6	2822.7	2693.6	2738.8	2838.8	2896.9	2929.1	2964.6
35°	6648.6	6213.1	4471.1	3096.9	2606.5	2587.2	2613.0	2667.8	2751.7	2774.3	2784.0
37.5°	7177.7	6487.3	4196.9	2745.3	2438.8	2461.4	2487.2	2506.5	2509.8	2551.7	2535.6
40°	7706.7	6719.6	3796.9	2409.8	2264.6	2387.2	2374.3	2338.8	2309.8	2271.0	2261.4
42.5°	8171.3	6922.8	3351.7	2125.9	2109.8	2309.8	2267.8	2177.5	2109.8	2080.7	2032.3
45°	8693.8	7209.9	2903.3	1948.5	1990.4	2216.2	2203.3	2064.6	1977.5	1874.3	1861.4
47.5°	9371.3	7509.9	2474.3	1764.6	1877.5	2180.7	2187.2	2009.7	1883.9	1745.2	1725.9
50°	10239.1	7942.2	2148.5	1687.2	1809.7	2129.1	2138.8	1935.6	1771.0	1629.1	1616.2
52.5°	11071.4	8384.2	1877.5	1567.8	1764.6	2067.8	2090.4	1867.8	1677.5	1500.1	1509.7
55°	11490.7	8222.9	1645.2	1480.7	1661.3	1967.8	2051.7	1819.4	1535.5	1413.0	1409.7
57.5°	11584.3	7826.1	1461.3	1390.4	1574.2	1861.4	1987.2	1674.3	1471.0	1367.8	1354.9
60°	11277.8	7132.5	1316.2	1293.6	1464.6	1751.7	1838.8	1596.8	1406.5	1322.6	1303.3
62.5°	10522.9	6413.1	1216.2	1248.4	1371.0	1632.3	1745.2	1542.0	1345.2	1287.1	1245.2
65°	8629.3	5274.4	1135.5	1161.3	1274.2	1516.2	1687.2	1480.7	1290.4	1235.5	1232.3
67.5°	5977.6	3635.6	1071.0	1119.4	1196.8	1432.3	1629.1	1413.0	1219.4	1200.0	1174.2
70°	3061.4	1938.8	987.1	1025.8	1112.9	1325.9	1525.9	1342.0	1145.2	1142.0	1109.7
72.5°	1551.7	1135.5	890.4	948.4	1009.7	1187.1	1396.8	1248.4	1051.6	1016.2	964.5
73°	1342.0	1051.6	874.2	925.8	983.9	1148.4	1358.1	1225.8	1038.7	987.1	938.7
75°	977.5	829.1	783.9	835.5	880.7	1035.5	1229.1	1122.6	954.9	900.0	854.9
77.5°	732.3	638.7	651.6	709.7	748.4	893.6	1093.6	1016.2	864.5	790.3	771.0
80°	538.7	487.1	538.7	593.6	622.6	787.1	996.8	880.7	729.1	645.2	629.1
82.5°	383.9	354.9	416.1	451.6	464.5	651.6	896.8	703.3	551.6	442.0	406.5
85°	219.4	216.1	280.7	277.4	287.1	380.7	590.3	467.8	354.9	271.0	264.5
87.5°	96.8	106.5	141.9	112.9	119.4	180.7	251.6	174.2	145.2	80.6	61.3
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)