

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: P478068

Luminaire Tested: **IFLD-L-SA7E-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478068
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-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

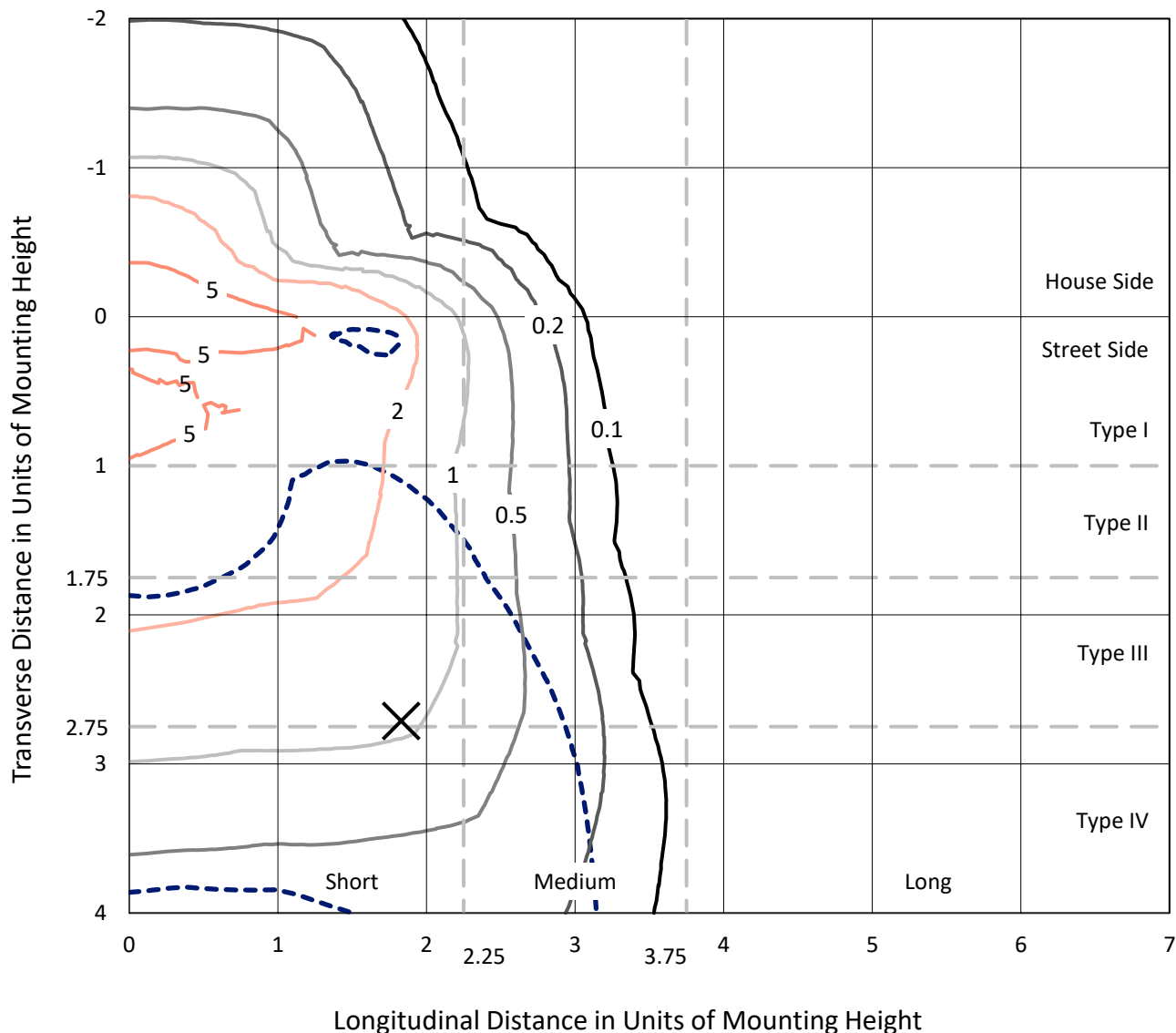
Lumens per Lamp: N/A
Luminaire Lumens: 48366.6 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

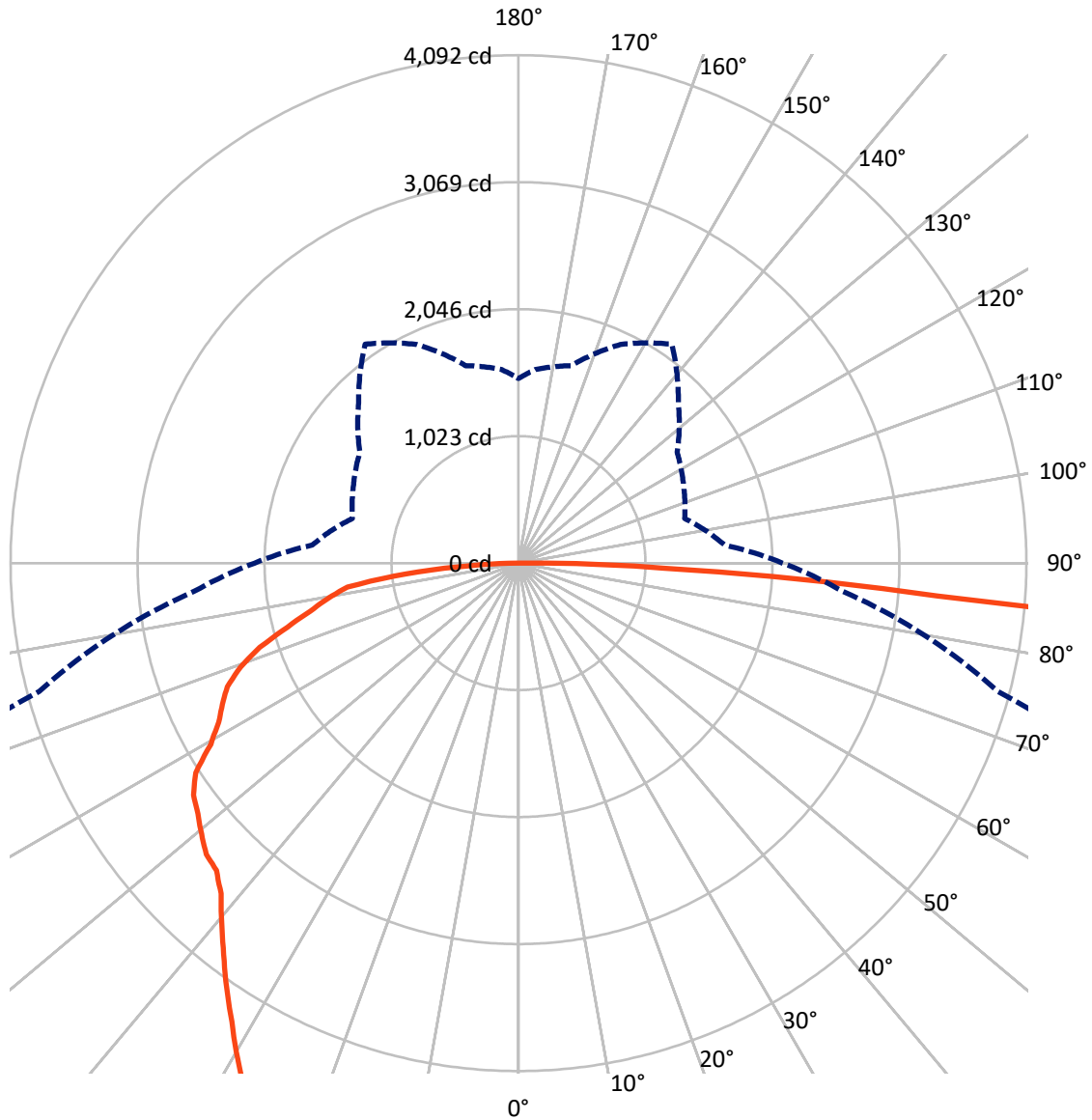
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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	10447.8	0.0	10447.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	37918.8	0.0	37918.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	48366.6	0.0	48366.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.0	1.3
10°-20°	1791.1	3.7
20°-30°	2947.8	6.1
30°-40°	4408.4	9.1
40°-50°	6535.3	13.5
50°-60°	9418.1	19.5
60°-70°	12018.7	24.8
70°-80°	9352.6	19.3
80°-90°	1254.7	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°	48366.6	100.0
0°-180°	48366.6	100.0

Coefficient of Utilization



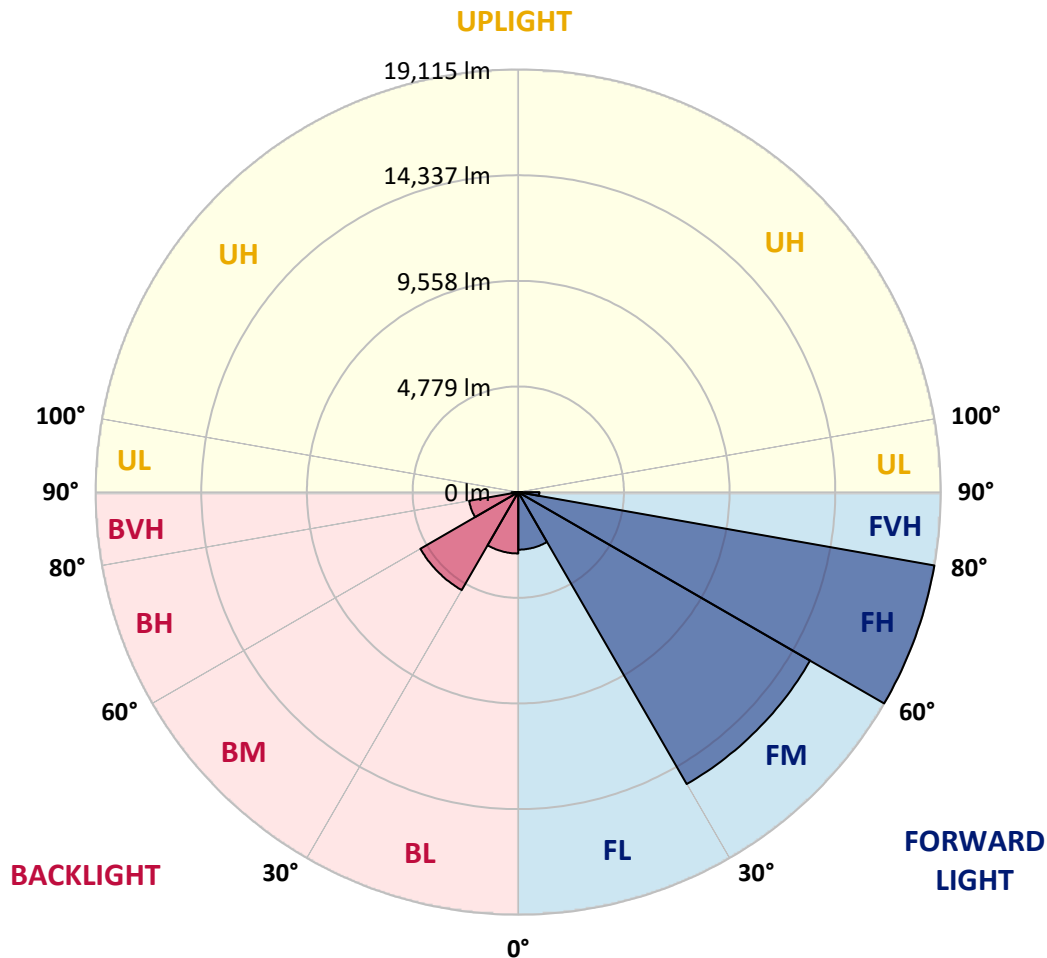
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2602.9	5.4			
FM (30°-60°)	15245.5	31.5			
FH (60°-80°)	19115.4	39.5			G5
FVH (80°-90°)	955.0	2.0			G5
BL (0°-30°)	2775.9	5.7	B4/5000		
BM (30°-60°)	5116.3	10.6	B4/8500		
BH (60°-80°)	2255.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	299.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1
2.5°	6213.1	6233.5	6300.0	6315.4	6386.9	6346.0	6433.0	6586.4	6673.3	6801.2	6954.6
5°	5722.2	5635.2	5676.2	5834.7	5916.5	5936.9	6029.0	6289.8	6453.4	6642.6	6929.0
7.5°	5144.3	5129.0	5210.8	5313.1	5476.7	5492.1	5696.6	5926.7	6264.2	6683.5	7021.0
10°	4750.6	4817.1	4863.1	4970.5	5083.0	5083.0	5343.8	5742.6	6126.2	6530.1	7041.5
12.5°	4730.1	4689.2	4699.4	4755.7	4837.5	4939.8	5185.2	5543.2	6029.0	6499.4	7128.4
15°	4796.6	4811.9	4719.9	4791.5	4822.2	4858.0	5129.0	5533.0	5967.6	6606.8	7276.7
17.5°	5149.4	5062.5	4919.3	4852.9	4960.2	4960.2	5144.3	5461.4	5977.9	6663.1	7491.5
20°	5425.6	5425.6	5190.4	5118.8	5195.5	5180.1	5308.0	5543.2	6029.0	6775.6	7731.8
22.5°	5890.9	5957.4	5568.8	5420.5	5415.4	5456.3	5568.8	5768.2	6172.2	6934.1	7962.0
25°	6560.8	6576.2	6126.2	5972.7	5809.1	5875.6	5896.0	6095.5	6300.0	7118.2	8222.7
27.5°	7307.4	7297.2	6883.0	6499.4	6392.1	6407.4	6294.9	6427.9	6489.2	7174.5	8596.0
30°	8135.8	8043.8	7731.8	7189.8	7102.9	7005.7	6760.2	6755.1	6883.0	7491.5	9112.5
32.5°	8677.9	8560.3	8345.5	7956.8	7716.5	7726.7	7338.1	7333.0	7220.5	7839.2	9562.5
35°	9209.7	9030.7	8974.5	8575.6	8335.2	8360.8	8048.9	8008.0	7803.4	8365.9	10304.0
37.5°	9848.9	9690.4	9777.3	9475.6	9179.0	9056.3	8913.1	8862.0	8596.0	9107.4	11316.5
40°	10554.6	10503.4	10447.2	10298.9	10119.9	10130.1	9976.7	9925.6	9531.8	10002.3	12288.1
42.5°	11505.7	11311.4	11019.9	11117.1	11209.1	11306.3	11255.1	11122.2	10713.1	10912.5	13372.2
45°	12390.4	12134.7	11597.8	11628.4	12006.9	12083.6	12702.3	12687.0	11863.7	12068.2	14604.6
47.5°	12988.7	12871.1	12548.9	12513.1	13055.1	13050.0	14164.8	14164.8	13075.6	13218.8	15929.0
50°	13878.4	13571.6	13433.6	13612.5	13888.7	14077.9	15658.0	15755.2	14267.1	14420.5	17662.5
52.5°	14921.6	14538.1	14190.4	14650.6	15141.5	15264.2	17135.8	17094.9	15182.4	15816.5	19692.7
55°	15785.8	15591.5	15351.2	15617.1	16419.9	16573.3	18618.8	18240.4	16097.8	16972.2	20669.4
57.5°	16793.2	16910.8	16962.0	16895.5	17851.8	18092.1	20311.4	19227.3	16885.3	17749.5	21242.1
60°	18312.0	18383.6	18450.0	18608.6	19621.1	19958.6	21651.2	20464.8	17381.3	18199.5	21288.1
62.5°	20623.4	20347.2	20495.5	21042.7	21855.7	22239.3	23625.1	21334.1	17759.7	18470.5	19784.7
65°	23267.1	22893.8	22740.4	23446.1	25552.9	25246.1	26089.8	21983.6	17212.5	17458.0	16777.9
67.5°	25946.7	25987.6	25593.8	27010.3	29592.7	29592.7	28380.8	22295.5	15729.6	14149.5	11766.5
70°	28073.9	28201.8	28416.6	31162.6	35253.5	35872.3	31218.8	21017.1	12707.4	9419.3	6433.0
72.5°	28043.3	27659.7	28759.2	33816.6	40397.8	39881.4	31812.0	16619.4	7931.3	4612.5	2950.6
73°	27414.3	27092.1	28293.8	33791.0	40607.5	40121.7	31377.4	15320.5	6995.5	3998.9	2623.3
75°	22387.6	21804.6	23850.1	30605.2	37570.0	37943.3	26657.5	9992.1	3835.2	2464.8	1846.0
77.5°	10206.8	10462.5	13126.7	20531.3	28953.5	29393.3	17524.5	4321.0	2101.7	1728.4	1360.2
80°	3277.8	3441.5	5108.5	10206.8	18148.3	18941.0	8100.0	1963.6	1498.3	1324.4	1017.6
82.5°	1252.8	1247.7	2142.6	4244.3	8601.2	9107.4	2960.8	1196.6	1114.8	976.7	721.0
85°	439.8	460.2	808.0	1677.3	3385.2	3543.8	1027.8	664.8	772.2	654.5	414.2
87.5°	153.4	158.5	286.4	608.5	1165.9	1232.4	286.4	265.9	383.5	378.4	209.7
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°	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1	6934.1
2.5°	7005.7	7051.7	7067.1	7251.2	7251.2	7251.2	7322.7	7322.7	7302.3	7251.2	7373.9
5°	7036.4	7118.2	7276.7	7435.2	7476.2	7512.0	7609.1	7527.3	7558.0	7506.8	7552.9
7.5°	7123.3	7235.8	7532.4	7629.6	7563.1	7639.8	7537.5	7481.3	7425.0	7445.5	7373.9
10°	7271.6	7414.8	7552.9	7731.8	7604.0	7527.3	7317.6	7266.5	7087.5	7026.2	7082.4
12.5°	7455.7	7629.6	7864.8	7798.3	7552.9	7333.0	7108.0	6893.2	6785.8	6632.4	6673.3
15°	7639.8	7839.2	7875.0	7762.5	7455.7	7179.6	6770.5	6468.8	6361.4	6223.3	6294.9
17.5°	7839.2	8028.4	7967.1	7675.6	7261.4	6842.1	6376.7	6080.1	5855.1	5768.2	5768.2
20°	8135.8	8227.9	8130.7	7532.4	7026.2	6473.9	6023.9	5686.4	5461.4	5425.6	5369.3
22.5°	8365.9	8514.2	8079.6	7322.7	6683.5	5993.2	5476.7	5348.9	5282.4	5226.2	5154.6
25°	8662.5	8657.4	7987.5	7128.4	6095.5	5420.5	5108.5	5098.3	5067.6	5047.2	5144.3
27.5°	8943.8	8826.2	7880.1	6647.7	5486.9	4985.8	4817.1	4929.6	4975.6	4944.9	4985.8
30°	9388.7	9194.3	7726.7	6136.4	4950.0	4546.0	4576.7	4730.1	4806.8	4852.9	4791.5
32.5°	9859.1	9562.5	7409.7	5604.6	4474.4	4269.9	4341.5	4500.0	4592.1	4643.2	4699.4
35°	10539.2	9848.9	7087.5	4909.1	4131.8	4101.1	4142.1	4229.0	4361.9	4397.7	4413.1
37.5°	11377.9	10283.6	6652.9	4351.7	3865.9	3901.7	3942.6	3973.3	3978.4	4044.9	4019.3
40°	12216.5	10651.7	6018.8	3819.9	3589.8	3784.1	3763.6	3707.4	3661.4	3600.0	3584.7
42.5°	12952.9	10973.9	5313.1	3369.9	3344.3	3661.4	3594.9	3451.7	3344.3	3298.3	3221.6
45°	13781.3	11429.0	4602.3	3088.6	3155.1	3513.1	3492.6	3272.7	3134.7	2971.0	2950.6
47.5°	14855.2	11904.6	3922.2	2797.2	2976.1	3456.8	3467.1	3185.8	2986.4	2766.5	2735.8
50°	16230.7	12589.8	3405.7	2674.4	2868.8	3375.0	3390.3	3068.2	2807.4	2582.4	2561.9
52.5°	17550.0	13290.4	2976.1	2485.2	2797.2	3277.8	3313.6	2960.8	2659.1	2377.8	2393.2
55°	18214.8	13034.7	2608.0	2347.2	2633.5	3119.3	3252.3	2884.1	2434.1	2239.8	2234.7
57.5°	18363.1	12405.7	2316.5	2204.0	2495.5	2950.6	3150.0	2654.0	2331.8	2168.2	2147.7
60°	17877.3	11306.3	2086.4	2050.6	2321.6	2776.7	2914.8	2531.3	2229.6	2096.6	2065.9
62.5°	16680.7	10165.9	1927.8	1979.0	2173.3	2587.5	2766.5	2444.3	2132.4	2040.3	1973.9
65°	13679.0	8360.8	1800.0	1840.9	2019.9	2403.4	2674.4	2347.2	2045.5	1958.5	1953.4
67.5°	9475.6	5763.1	1697.7	1774.4	1897.2	2270.5	2582.4	2239.8	1933.0	1902.3	1861.4
70°	4852.9	3073.3	1564.8	1626.1	1764.2	2101.7	2418.8	2127.3	1815.3	1810.2	1759.1
72.5°	2459.7	1800.0	1411.4	1503.4	1600.6	1881.8	2214.2	1979.0	1667.0	1610.8	1529.0
73°	2127.3	1667.0	1385.8	1467.6	1559.7	1820.5	2152.8	1943.2	1646.6	1564.8	1488.1
75°	1549.4	1314.2	1242.6	1324.4	1396.0	1641.5	1948.3	1779.6	1513.6	1426.7	1355.1
77.5°	1160.8	1012.5	1033.0	1125.0	1186.4	1416.5	1733.5	1610.8	1370.5	1252.8	1222.2
80°	854.0	772.2	854.0	940.9	986.9	1247.7	1580.1	1396.0	1155.7	1022.7	997.2
82.5°	608.5	562.5	659.7	715.9	736.4	1033.0	1421.6	1114.8	874.4	700.6	644.3
85°	347.7	342.6	444.9	439.8	455.1	603.4	935.8	741.5	562.5	429.5	419.3
87.5°	153.4	168.8	225.0	179.0	189.2	286.4	398.9	276.1	230.1	127.8	97.2
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)