

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: P478144

Luminaire Tested: **IFLD-L-SA7C-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478144
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

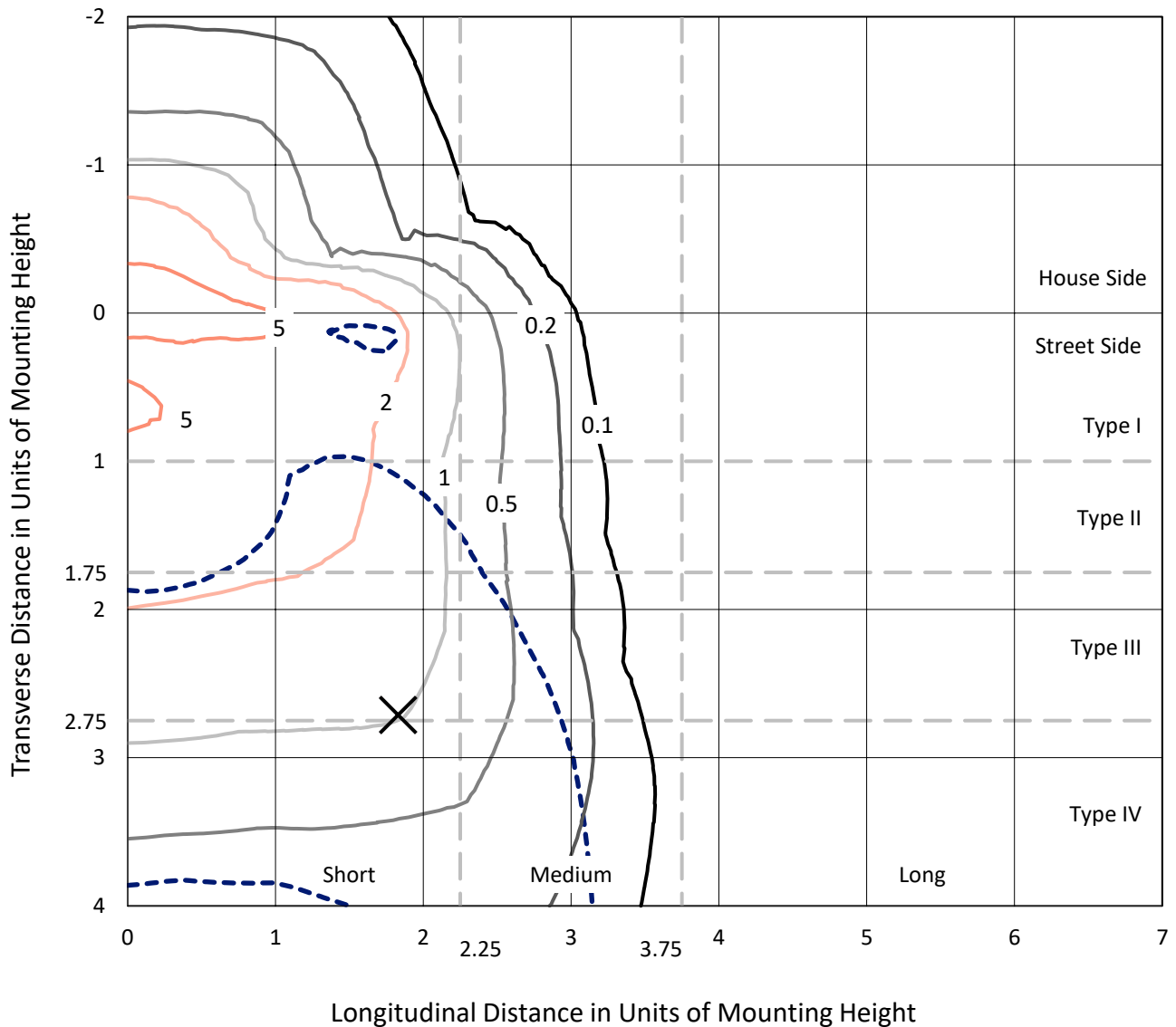
Lumens per Lamp: N/A
Luminaire Lumens: 44794.4 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

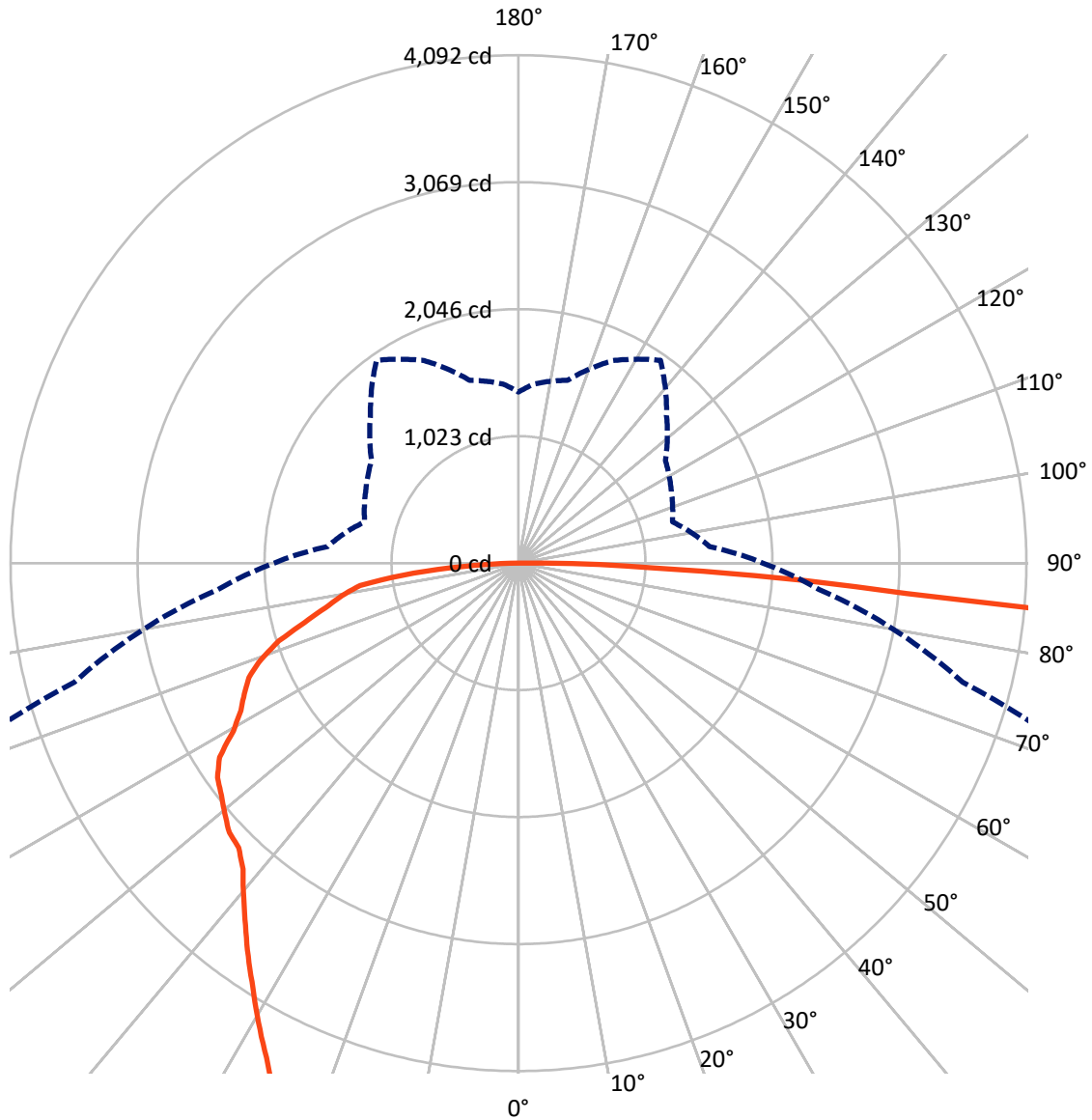
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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	9676.1	0.0	9676.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	35118.2	0.0	35118.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	44794.4	0.0	44794.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	592.7	1.3
10°-20°	1658.8	3.7
20°-30°	2730.1	6.1
30°-40°	4082.8	9.1
40°-50°	6052.6	13.5
50°-60°	8722.5	19.5
60°-70°	11131.0	24.8
70°-80°	8661.8	19.3
80°-90°	1162.0	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°	44794.4	100.0
0°-180°	44794.4	100.0

Coefficient of Utilization



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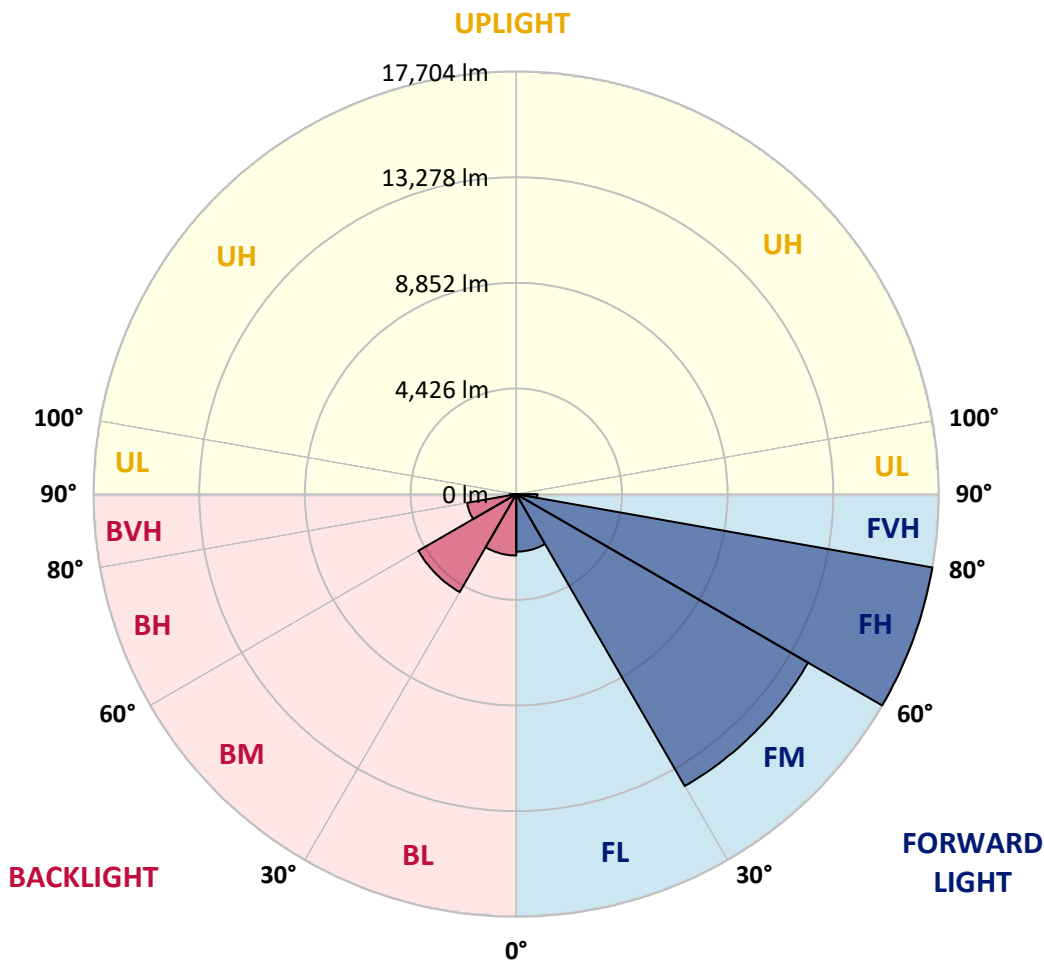
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2410.7	5.4			
FM (30°-60°)	14119.5	31.5			
FH (60°-80°)	17703.5	39.5			G5
FVH (80°-90°)	884.5	2.0			G5
BL (0°-30°)	2570.9	5.7	B4/5000		
BM (30°-60°)	4738.4	10.6	B3/5000		
BH (60°-80°)	2089.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	277.5	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°	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0
2.5°	5754.2	5773.1	5834.7	5848.9	5915.2	5877.3	5957.9	6099.9	6180.4	6298.8	6440.9
5°	5299.6	5219.0	5256.9	5403.7	5479.5	5498.5	5583.7	5825.2	5976.8	6152.0	6417.2
7.5°	4764.4	4750.2	4826.0	4920.7	5072.2	5086.4	5275.9	5489.0	5801.6	6189.9	6502.5
10°	4399.7	4461.3	4503.9	4603.4	4707.6	4707.6	4949.1	5318.5	5673.7	6047.8	6521.4
12.5°	4380.8	4342.9	4352.4	4404.5	4480.2	4574.9	4802.3	5133.8	5583.7	6019.4	6601.9
15°	4442.3	4456.5	4371.3	4437.6	4466.0	4499.2	4750.2	5124.3	5526.9	6118.9	6739.3
17.5°	4769.1	4688.6	4556.0	4494.4	4593.9	4593.9	4764.4	5058.0	5536.4	6171.0	6938.2
20°	5024.9	5024.9	4807.0	4740.7	4811.7	4797.5	4915.9	5133.8	5583.7	6275.2	7160.8
22.5°	5455.8	5517.4	5157.5	5020.1	5015.4	5053.3	5157.5	5342.2	5716.3	6422.0	7373.9
25°	6076.3	6090.5	5673.7	5531.6	5380.1	5441.6	5460.6	5645.3	5834.7	6592.5	7615.4
27.5°	6767.7	6758.2	6374.6	6019.4	5920.0	5934.2	5830.0	5953.1	6009.9	6644.6	7961.2
30°	7534.9	7449.7	7160.8	6658.8	6578.3	6488.3	6261.0	6256.2	6374.6	6938.2	8439.5
32.5°	8036.9	7928.0	7729.1	7369.2	7146.6	7156.1	6796.1	6791.4	6687.2	7260.2	8856.3
35°	8529.5	8363.7	8311.6	7942.2	7719.6	7743.3	7454.4	7416.5	7227.1	7748.0	9543.0
37.5°	9121.5	8974.7	9055.2	8775.8	8501.1	8387.4	8254.8	8207.4	7961.2	8434.8	10480.7
40°	9775.0	9727.7	9675.6	9538.2	9372.5	9382.0	9239.9	9192.5	8827.9	9263.6	11380.5
42.5°	10655.9	10476.0	10206.0	10296.0	10381.2	10471.2	10423.9	10300.7	9921.9	10106.6	12384.6
45°	11475.3	11238.5	10741.2	10769.6	11120.1	11191.1	11764.2	11749.9	10987.5	11176.9	13525.9
47.5°	12029.4	11920.4	11622.1	11588.9	12090.9	12086.2	13118.6	13118.6	12109.9	12242.5	14752.5
50°	12853.4	12569.3	12441.4	12607.2	12862.9	13038.1	14501.5	14591.5	13213.4	13355.4	16358.0
52.5°	13819.6	13464.4	13142.3	13568.6	14023.2	14136.9	15870.2	15832.4	14061.1	14648.4	18238.2
55°	14619.9	14440.0	14217.4	14463.7	15207.2	15349.3	17243.7	16893.2	14908.8	15718.7	19142.8
57.5°	15552.9	15661.9	15709.2	15647.6	16533.3	16755.9	18811.3	17807.3	15638.2	16438.6	19673.2
60°	16959.5	17025.8	17087.4	17234.2	18171.9	18484.5	20052.1	18953.4	16097.6	16855.3	19715.8
62.5°	19100.2	18844.4	18981.8	19488.5	20241.5	20596.7	21880.2	19758.5	16448.0	17106.3	18323.5
65°	21548.7	21202.9	21060.9	21714.4	23665.6	23381.5	24162.9	20359.9	15941.3	16168.6	15538.7
67.5°	24030.3	24068.2	23703.5	25015.4	27407.1	27407.1	26284.6	20648.8	14567.8	13104.4	10897.5
70°	26000.5	26118.9	26317.8	28861.0	32649.8	33222.8	28913.1	19464.8	11768.9	8723.7	5957.9
72.5°	25972.1	25616.9	26635.1	31319.0	37414.2	36935.8	29462.5	15391.9	7345.5	4271.8	2732.7
73°	25389.5	25091.2	26204.1	31295.3	37608.3	37158.4	29059.9	14189.0	6478.8	3703.5	2429.6
75°	20734.1	20194.2	22088.6	28344.8	34795.2	35140.9	24688.6	9254.1	3552.0	2282.7	1709.7
77.5°	9453.0	9689.8	12157.2	19014.9	26815.1	27222.4	16230.2	4001.9	1946.5	1600.8	1259.8
80°	3035.8	3187.3	4731.2	9453.0	16808.0	17542.0	7501.8	1818.6	1387.6	1226.6	942.5
82.5°	1160.3	1155.6	1984.4	3930.9	7965.9	8434.8	2742.1	1108.2	1032.4	904.6	667.8
85°	407.3	426.2	748.3	1553.4	3135.2	3282.0	951.9	615.7	715.1	606.2	383.6
87.5°	142.1	146.8	265.2	563.6	1079.8	1141.4	265.2	246.3	355.2	350.5	194.2
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°	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0	6422.0
2.5°	6488.3	6530.9	6545.1	6715.6	6715.6	6715.6	6781.9	6781.9	6763.0	6715.6	6829.3
5°	6516.7	6592.5	6739.3	6886.1	6924.0	6957.1	7047.1	6971.3	6999.8	6952.4	6995.0
7.5°	6597.2	6701.4	6976.1	7066.1	7004.5	7075.5	6980.8	6928.7	6876.6	6895.6	6829.3
10°	6734.6	6867.2	6995.0	7160.8	7042.4	6971.3	6777.2	6729.8	6564.1	6507.2	6559.3
12.5°	6905.0	7066.1	7283.9	7222.4	6995.0	6791.4	6583.0	6384.1	6284.6	6142.6	6180.4
15°	7075.5	7260.2	7293.4	7189.2	6905.0	6649.3	6270.4	5991.0	5891.5	5763.7	5830.0
17.5°	7260.2	7435.5	7378.6	7108.7	6725.1	6336.7	5905.8	5631.1	5422.7	5342.2	5342.2
20°	7534.9	7620.2	7530.2	6976.1	6507.2	5995.7	5579.0	5266.4	5058.0	5024.9	4972.8
22.5°	7748.0	7885.4	7482.8	6781.9	6189.9	5550.6	5072.2	4953.8	4892.3	4840.2	4773.9
25°	8022.7	8018.0	7397.6	6601.9	5645.3	5020.1	4731.2	4721.8	4693.3	4674.4	4764.4
27.5°	8283.2	8174.3	7298.1	6156.8	5081.7	4617.6	4461.3	4565.5	4608.1	4579.7	4617.6
30°	8695.2	8515.3	7156.1	5683.2	4584.4	4210.3	4238.7	4380.8	4451.8	4494.4	4437.6
32.5°	9131.0	8856.3	6862.4	5190.6	4144.0	3954.5	4020.8	4167.7	4252.9	4300.3	4352.4
35°	9760.8	9121.5	6564.1	4546.5	3826.7	3798.2	3836.1	3916.6	4039.8	4072.9	4087.1
37.5°	10537.5	9524.0	6161.5	4030.3	3580.4	3613.5	3651.4	3679.8	3684.6	3746.2	3722.5
40°	11314.2	9865.0	5574.2	3537.8	3324.7	3504.6	3485.7	3433.6	3391.0	3334.1	3319.9
42.5°	11996.2	10163.4	4920.7	3121.0	3097.3	3391.0	3329.4	3196.8	3097.3	3054.7	2983.7
45°	12763.4	10584.9	4262.4	2860.5	2922.1	3253.6	3234.7	3031.0	2903.2	2751.6	2732.7
47.5°	13758.0	11025.3	3632.5	2590.6	2756.3	3201.5	3211.0	2950.5	2765.8	2562.2	2533.7
50°	15032.0	11660.0	3154.2	2476.9	2656.9	3125.7	3139.9	2841.6	2600.0	2391.7	2372.7
52.5°	16253.9	12308.8	2756.3	2301.7	2590.6	3035.8	3068.9	2742.1	2462.7	2202.2	2216.4
55°	16869.5	12072.0	2415.3	2173.8	2439.0	2888.9	3012.1	2671.1	2254.3	2074.4	2069.6
57.5°	17006.9	11489.5	2145.4	2041.2	2311.2	2732.7	2917.4	2458.0	2159.6	2008.1	1989.1
60°	16557.0	10471.2	1932.3	1899.1	2150.1	2571.6	2699.5	2344.3	2064.9	1941.7	1913.3
62.5°	15448.7	9415.1	1785.5	1832.8	2012.8	2396.4	2562.2	2263.8	1974.9	1889.7	1828.1
65°	12668.7	7743.3	1667.1	1704.9	1870.7	2225.9	2476.9	2173.8	1894.4	1813.9	1809.1
67.5°	8775.8	5337.4	1572.3	1643.4	1757.0	2102.8	2391.7	2074.4	1790.2	1761.8	1723.9
70°	4494.4	2846.3	1449.2	1506.0	1633.9	1946.5	2240.1	1970.2	1681.3	1676.5	1629.2
72.5°	2278.0	1667.1	1307.1	1392.4	1482.4	1742.8	2050.7	1832.8	1543.9	1491.8	1416.1
73°	1970.2	1543.9	1283.4	1359.2	1444.5	1686.0	1993.8	1799.7	1525.0	1449.2	1378.2
75°	1435.0	1217.1	1150.8	1226.6	1292.9	1520.2	1804.4	1648.1	1401.8	1321.3	1255.0
77.5°	1075.1	937.7	956.7	1041.9	1098.7	1311.9	1605.5	1491.8	1269.2	1160.3	1131.9
80°	790.9	715.1	790.9	871.4	914.0	1155.6	1463.4	1292.9	1070.3	947.2	923.5
82.5°	563.6	521.0	610.9	663.0	682.0	956.7	1316.6	1032.4	809.9	648.8	596.7
85°	322.0	317.3	412.0	407.3	421.5	558.8	866.7	686.7	521.0	397.8	388.3
87.5°	142.1	156.3	208.4	165.8	175.2	265.2	369.4	255.7	213.1	118.4	90.0
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)