

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: P478184

Luminaire Tested: **IFLD-L-SA7D-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478184
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

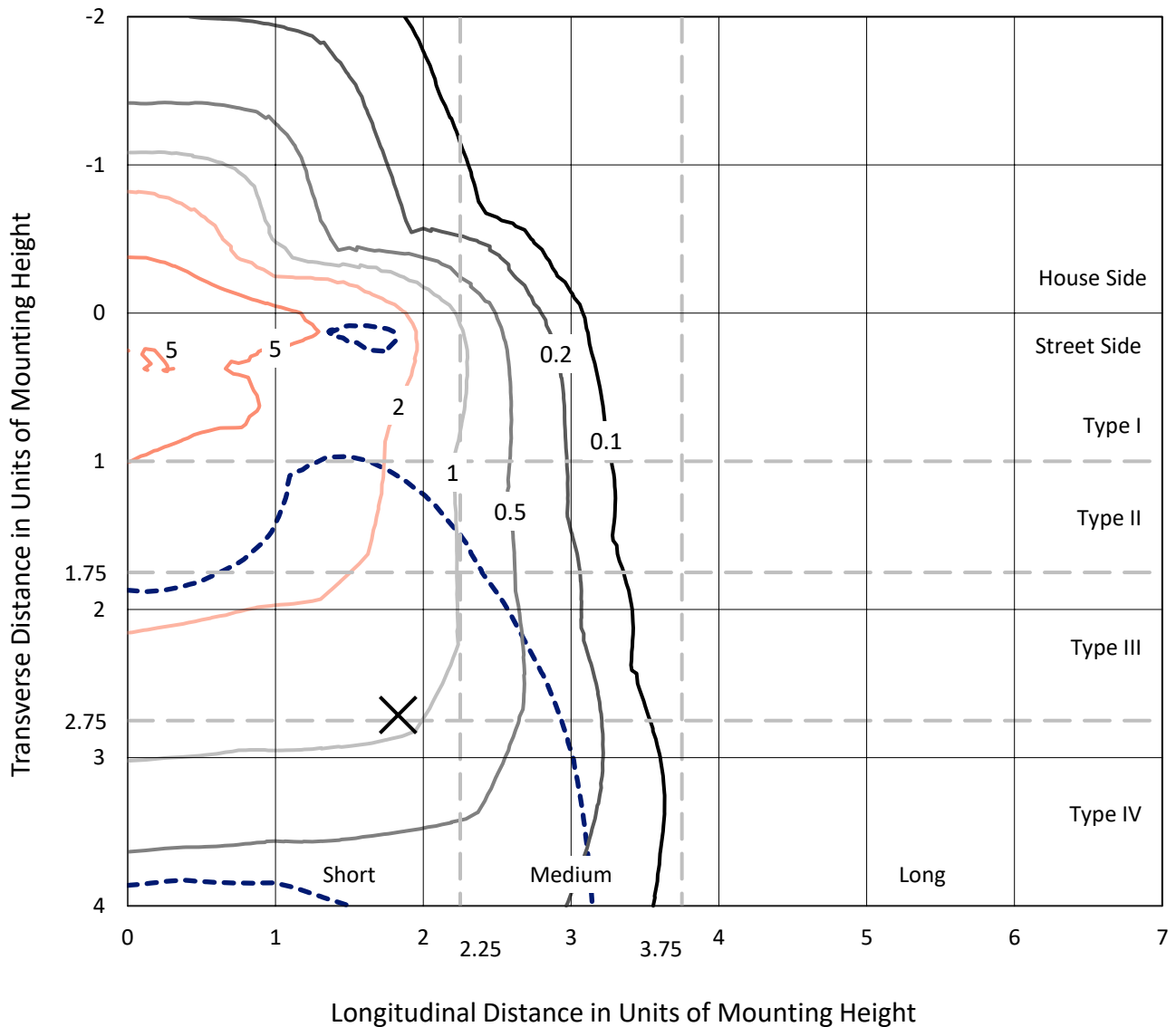
Lumens per Lamp: N/A
Luminaire Lumens: 49973.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

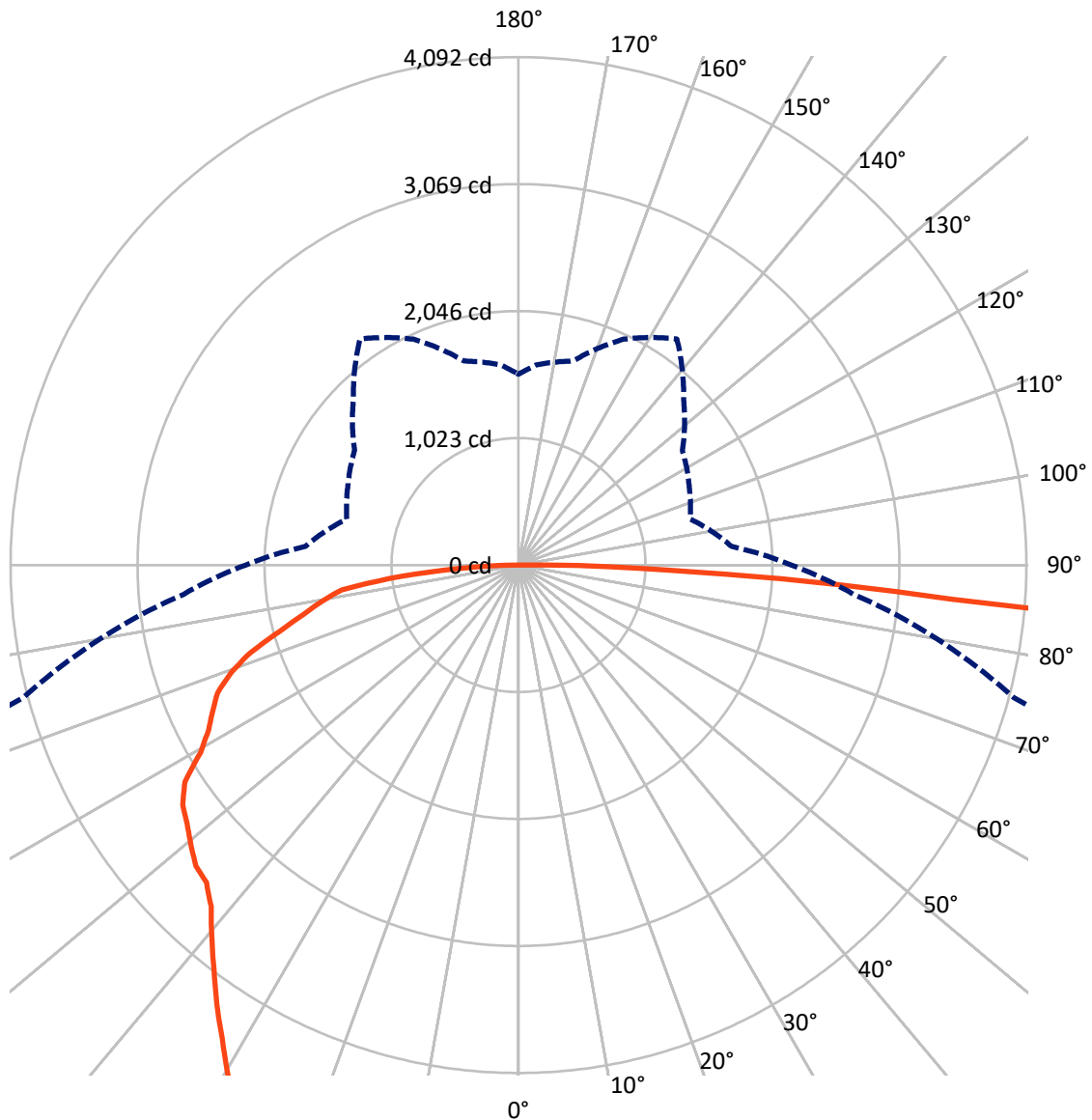
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.3 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	10794.9	0.0	10794.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	39178.8	0.0	39178.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	49973.7	0.0	49973.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.3	1.3
10°-20°	1850.6	3.7
20°-30°	3045.8	6.1
30°-40°	4554.9	9.1
40°-50°	6752.5	13.5
50°-60°	9731.0	19.5
60°-70°	12418.1	24.8
70°-80°	9663.3	19.3
80°-90°	1296.4	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°	49973.7	100.0
0°-180°	49973.7	100.0

Coefficient of Utilization



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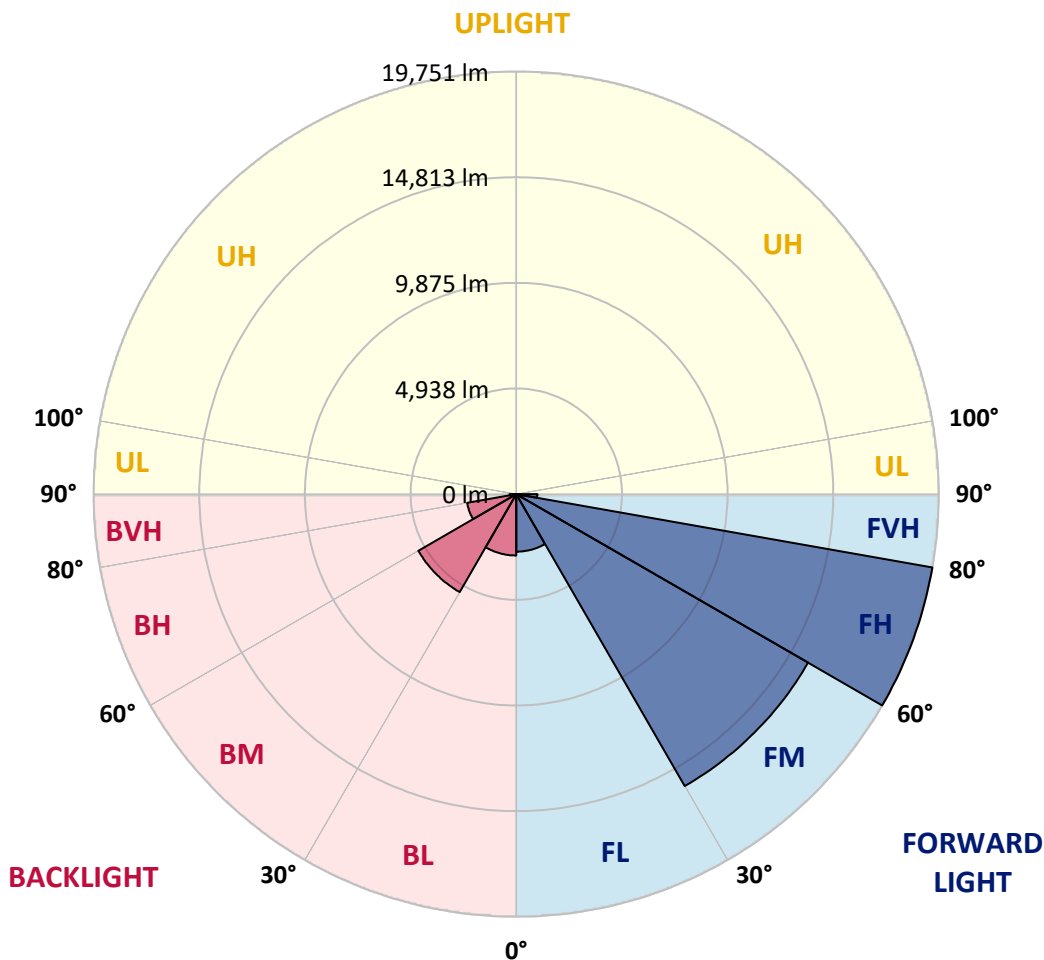
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.4	5.4			
FM (30°-60°)	15752.0	31.5			
FH (60°-80°)	19750.5	39.5			G5
FVH (80°-90°)	986.8	2.0			G5
BL (0°-30°)	2868.1	5.7	B4/5000		
BM (30°-60°)	5286.3	10.6	B4/8500		
BH (60°-80°)	2330.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	309.6	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°	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5
2.5°	6419.5	6440.7	6509.4	6525.2	6599.2	6556.9	6646.7	6805.2	6895.1	7027.1	7185.7
5°	5912.3	5822.5	5864.8	6028.6	6113.1	6134.2	6229.3	6498.8	6667.9	6863.4	7159.2
7.5°	5315.3	5299.4	5384.0	5489.6	5658.7	5674.6	5885.9	6123.7	6472.4	6905.6	7254.3
10°	4908.4	4977.1	5024.7	5135.6	5251.9	5251.9	5521.3	5933.4	6329.7	6747.1	7275.5
12.5°	4887.3	4845.0	4855.6	4913.7	4998.3	5103.9	5357.5	5727.4	6229.3	6715.4	7365.3
15°	4956.0	4971.8	4876.7	4950.7	4982.4	5019.4	5299.4	5716.8	6165.9	6826.4	7518.5
17.5°	5320.6	5230.7	5082.8	5014.1	5125.1	5125.1	5315.3	5642.9	6176.5	6884.5	7740.4
20°	5605.9	5605.9	5362.8	5288.9	5368.1	5352.3	5484.3	5727.4	6229.3	7000.7	7988.8
22.5°	6086.7	6155.4	5753.8	5600.6	5595.3	5637.6	5753.8	5959.9	6377.3	7164.5	8226.5
25°	6778.8	6794.7	6329.7	6171.2	6002.1	6070.8	6092.0	6298.0	6509.4	7354.7	8496.0
27.5°	7550.2	7539.7	7111.7	6715.4	6604.5	6620.3	6504.1	6641.4	6704.8	7412.8	8881.7
30°	8406.2	8311.1	7988.8	7428.7	7338.9	7238.5	6984.9	6979.6	7111.7	7740.4	9415.3
32.5°	8966.2	8844.7	8622.8	8221.2	7972.9	7983.5	7581.9	7576.6	7460.4	8099.7	9880.3
35°	9515.7	9330.8	9272.7	8860.5	8612.2	8638.6	8316.3	8274.1	8062.7	8643.9	10646.4
37.5°	10176.2	10012.4	10102.2	9790.5	9484.0	9357.2	9209.3	9156.4	8881.7	9410.0	11692.5
40°	10905.3	10852.5	10794.3	10641.1	10456.2	10466.8	10308.2	10255.4	9848.6	10334.7	12696.4
42.5°	11888.0	11687.3	11386.1	11486.5	11581.6	11682.0	11629.1	11491.8	11069.1	11275.1	13816.5
45°	12802.1	12537.9	11983.1	12014.8	12405.8	12485.1	13124.4	13108.5	12257.9	12469.2	15089.9
47.5°	13420.3	13298.7	12965.9	12928.9	13489.0	13483.7	14635.5	14635.5	13510.1	13658.0	16458.3
50°	14339.6	14022.6	13879.9	14064.9	14350.2	14545.7	16178.3	16278.7	14741.2	14899.7	18249.4
52.5°	15417.5	15021.2	14661.9	15137.4	15644.6	15771.5	17705.2	17663.0	15686.9	16342.1	20347.0
55°	16310.4	16109.6	15861.3	16136.0	16965.5	17124.0	19237.5	18846.5	16632.7	17536.2	21356.2
57.5°	17351.2	17472.8	17525.6	17456.9	18444.9	18693.3	20986.3	19866.2	17446.3	18339.3	21947.9
60°	18920.5	18994.4	19063.1	19226.9	20273.1	20621.8	22370.6	21144.8	17958.9	18804.2	21995.5
62.5°	21308.6	21023.3	21176.5	21741.9	22582.0	22978.2	24410.1	22043.1	18349.8	19084.3	20442.1
65°	24040.2	23654.5	23496.0	24225.2	26402.0	26085.0	26956.8	22714.1	17784.5	18038.1	17335.4
67.5°	26808.8	26851.1	26444.3	27907.8	30576.0	30576.0	29323.8	23036.4	16252.3	14619.6	12157.5
70°	29006.8	29138.9	29360.8	32198.1	36424.9	37064.2	32256.2	21715.5	13129.7	9732.3	6646.7
72.5°	28975.1	28578.8	29714.8	34940.2	41740.2	41206.6	32869.1	17171.6	8194.8	4765.8	3048.6
73°	28325.2	27992.4	29234.0	34913.8	41956.8	41454.9	32420.0	15829.6	7227.9	4131.8	2710.5
75°	23131.5	22529.1	24642.6	31622.2	38818.4	39204.1	27543.2	10324.1	3962.7	2546.7	1907.4
77.5°	10546.0	10810.2	13562.9	21213.5	29915.6	30370.0	18106.8	4464.6	2171.5	1785.8	1405.4
80°	3386.8	3555.8	5278.3	10546.0	18751.4	19570.3	8369.2	2028.9	1548.1	1368.4	1051.4
82.5°	1294.5	1289.2	2213.8	4385.4	8887.0	9410.0	3059.2	1236.4	1151.8	1009.2	745.0
85°	454.4	475.5	834.8	1733.0	3497.7	3661.5	1062.0	686.9	797.8	676.3	428.0
87.5°	158.5	163.8	295.9	628.7	1204.7	1273.3	295.9	274.7	396.3	391.0	216.6
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°	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5	7164.5
2.5°	7238.5	7286.0	7301.9	7492.1	7492.1	7492.1	7566.1	7566.1	7544.9	7492.1	7618.9
5°	7270.2	7354.7	7518.5	7682.3	7724.6	7761.6	7862.0	7777.4	7809.1	7756.3	7803.8
7.5°	7360.0	7476.3	7782.7	7883.1	7814.4	7893.7	7788.0	7729.9	7671.7	7692.9	7618.9
10°	7513.2	7661.2	7803.8	7988.8	7856.7	7777.4	7560.8	7508.0	7323.0	7259.6	7317.7
12.5°	7703.4	7883.1	8126.1	8057.4	7803.8	7576.6	7344.2	7122.3	7011.3	6852.8	6895.1
15°	7893.7	8099.7	8136.7	8020.5	7703.4	7418.1	6995.4	6683.7	6572.8	6430.1	6504.1
17.5°	8099.7	8295.2	8231.8	7930.6	7502.7	7069.4	6588.6	6282.2	6049.7	5959.9	5959.9
20°	8406.2	8501.3	8400.9	7782.7	7259.6	6689.0	6224.0	5875.3	5642.9	5605.9	5547.7
22.5°	8643.9	8797.1	8348.0	7566.1	6905.6	6192.3	5658.7	5526.6	5457.9	5399.8	5325.8
25°	8950.4	8945.1	8252.9	7365.3	6298.0	5600.6	5278.3	5267.7	5236.0	5214.9	5315.3
27.5°	9241.0	9119.4	8142.0	6868.6	5669.3	5151.5	4977.1	5093.4	5140.9	5109.2	5151.5
30°	9700.6	9499.9	7983.5	6340.3	5114.5	4697.1	4728.8	4887.3	4966.6	5014.1	4950.7
32.5°	10186.7	9880.3	7655.9	5790.8	4623.1	4411.8	4485.8	4649.5	4744.6	4797.5	4855.6
35°	10889.4	10176.2	7323.0	5072.2	4269.1	4237.4	4279.7	4369.5	4506.9	4543.9	4559.7
37.5°	11755.9	10625.3	6873.9	4496.3	3994.4	4031.4	4073.6	4105.3	4110.6	4179.3	4152.9
40°	12622.4	11005.7	6218.8	3946.8	3709.1	3909.8	3888.7	3830.6	3783.0	3719.6	3703.8
42.5°	13383.3	11338.5	5489.6	3481.9	3455.5	3783.0	3714.3	3566.4	3455.5	3407.9	3328.6
45°	14239.2	11808.8	4755.2	3191.3	3260.0	3629.8	3608.7	3381.5	3238.8	3069.8	3048.6
47.5°	15348.8	12300.1	4052.5	2890.1	3075.0	3571.7	3582.3	3291.7	3085.6	2858.4	2826.7
50°	16770.0	13008.1	3518.9	2763.3	2964.1	3487.2	3503.0	3170.1	2900.7	2668.2	2647.1
52.5°	18133.2	13732.0	3075.0	2567.8	2890.1	3386.8	3423.8	3059.2	2747.5	2456.9	2472.7
55°	18820.1	13467.8	2694.6	2425.2	2721.0	3223.0	3360.4	2979.9	2515.0	2314.2	2308.9
57.5°	18973.3	12817.9	2393.5	2277.2	2578.4	3048.6	3254.7	2742.2	2409.3	2240.2	2219.1
60°	18471.4	11682.0	2155.7	2118.7	2398.7	2869.0	3011.6	2615.4	2303.6	2166.3	2134.6
62.5°	17235.0	10503.7	1991.9	2044.7	2245.5	2673.5	2858.4	2525.5	2203.2	2108.1	2039.5
65°	14133.5	8638.6	1859.8	1902.1	2087.0	2483.3	2763.3	2425.2	2113.4	2023.6	2018.3
67.5°	9790.5	5954.6	1754.1	1833.4	1960.2	2345.9	2668.2	2314.2	1997.2	1965.5	1923.2
70°	5014.1	3175.4	1616.8	1680.2	1822.8	2171.5	2499.1	2198.0	1875.7	1870.4	1817.5
72.5°	2541.4	1859.8	1458.3	1553.4	1653.8	1944.4	2287.8	2044.7	1722.4	1664.3	1579.8
73°	2198.0	1722.4	1431.8	1516.4	1611.5	1881.0	2224.4	2007.8	1701.3	1616.8	1537.5
75°	1600.9	1357.9	1283.9	1368.4	1442.4	1696.0	2013.0	1838.7	1563.9	1474.1	1400.1
77.5°	1199.4	1046.1	1067.3	1162.4	1225.8	1463.5	1791.1	1664.3	1416.0	1294.5	1262.8
80°	882.4	797.8	882.4	972.2	1019.7	1289.2	1632.6	1442.4	1194.1	1056.7	1030.3
82.5°	628.7	581.2	681.6	739.7	760.8	1067.3	1468.8	1151.8	903.5	723.8	665.7
85°	359.3	354.0	459.7	454.4	470.2	623.5	966.9	766.1	581.2	443.8	433.3
87.5°	158.5	174.4	232.5	184.9	195.5	295.9	412.1	285.3	237.8	132.1	100.4
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)