

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: P478641

Luminaire Tested: **IFLD-S-SA6C-760-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478641
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-760-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

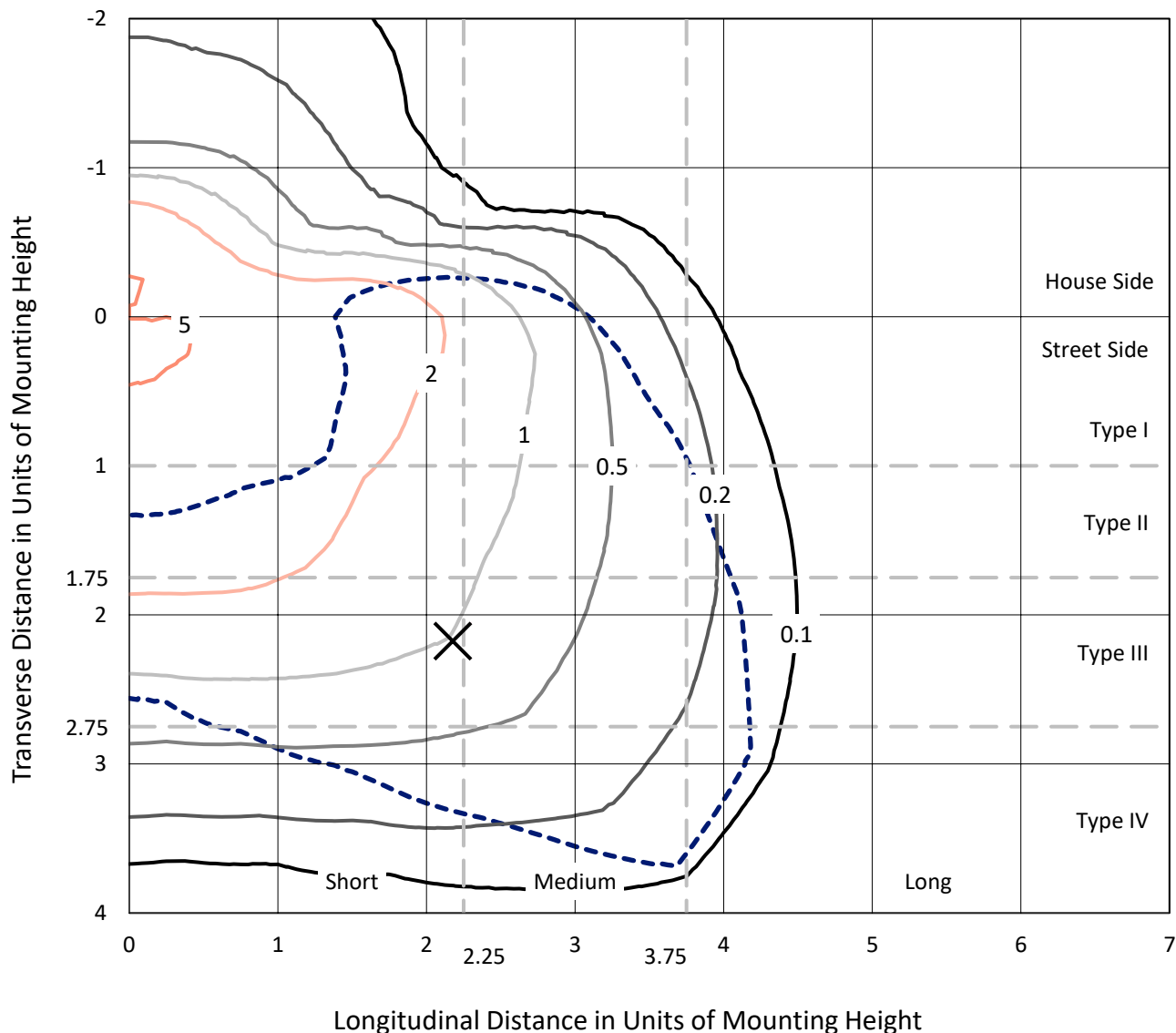
Lumens per Lamp: N/A
Luminaire Lumens: 42961.5 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 321.5
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: P478641
 CATALOG NUMBER: IFLD-S-SA6C-760-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

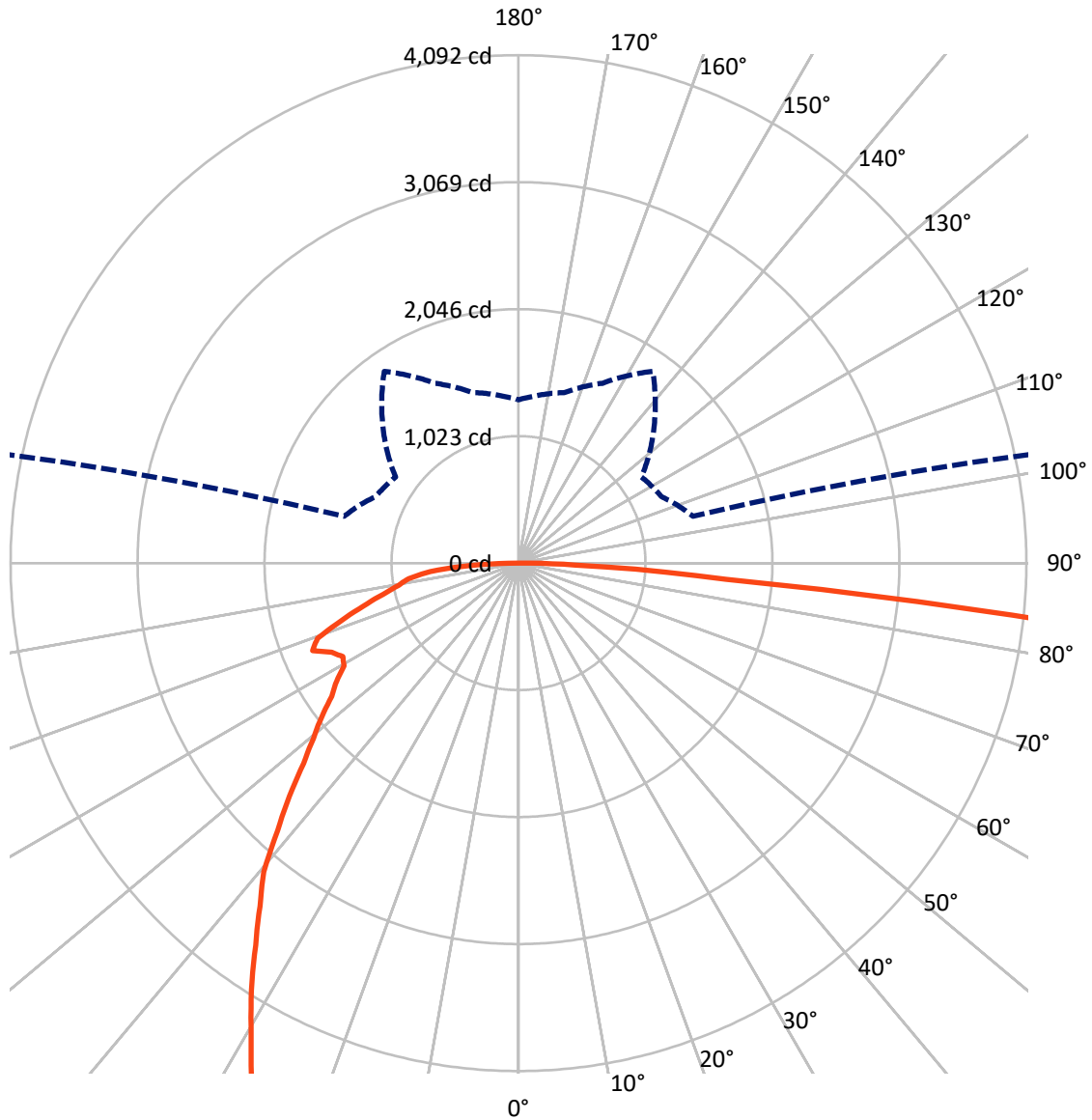
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P478641
CATALOG NUMBER: IFLD-S-SA6C-760-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9563.5	0.0	9563.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	33398.0	0.0	33398.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	42961.5	0.0	42961.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	1.1
10°-20°	1506.2	3.5
20°-30°	2543.6	5.9
30°-40°	3520.0	8.2
40°-50°	5035.0	11.7
50°-60°	8120.8	18.9
60°-70°	11977.1	27.9
70°-80°	8697.4	20.2
80°-90°	1108.7	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°	42961.5	100.0
0°-180°	42961.5	100.0

Coefficient of Utilization



REPORT NUMBER: P478641

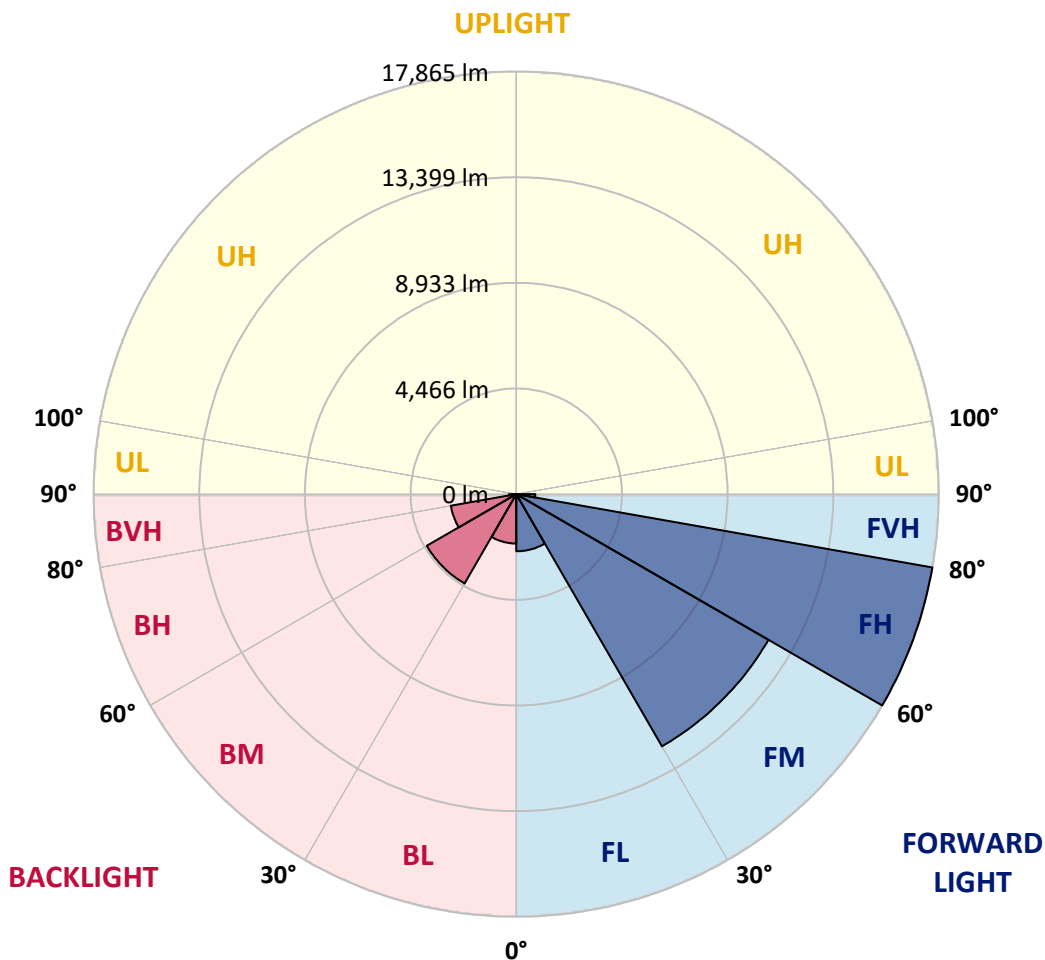
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2414.5	5.6			
FM (30°-60°)	12311.3	28.7			
FH (60°-80°)	17865.3	41.6			G5
FVH (80°-90°)	807.0	1.9			G5
BL (0°-30°)	2088.1	4.9	B3/2500		
BM (30°-60°)	4364.5	10.2	B3/5000		
BH (60°-80°)	2809.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	301.7	0.7			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





REPORT NUMBER: P478641

CATALOG NUMBER: IFLD-S-SA6C-760-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3
2.5°	4660.5	4688.3	4660.5	4655.9	4609.6	4577.1	4604.9	4563.2	4516.9	4498.4	4456.7
5°	5086.7	5091.4	5040.4	5045.0	4947.8	4845.8	4864.4	4739.3	4604.9	4554.0	4470.6
7.5°	5522.2	5471.3	5397.1	5374.0	5221.1	5109.9	5096.0	4984.8	4776.3	4660.5	4544.7
10°	5804.8	5823.3	5702.9	5601.0	5471.3	5336.9	5332.3	5123.8	5003.4	4831.9	4683.7
12.5°	6055.0	6059.6	5957.7	5795.5	5633.4	5466.6	5489.8	5397.1	5193.3	5031.1	4882.9
15°	6249.6	6221.8	6110.6	5962.3	5790.9	5661.2	5647.3	5568.5	5397.1	5262.8	5017.2
17.5°	6305.1	6291.3	6180.1	6022.6	5855.8	5758.5	5795.5	5665.8	5596.3	5475.9	5239.6
20°	6198.6	6166.2	6147.6	5971.6	5851.1	5841.9	5809.4	5837.2	5721.4	5610.2	5438.8
22.5°	6004.0	5990.1	5980.9	5841.9	5786.3	5828.0	5883.6	5925.3	5906.7	5800.2	5605.6
25°	5804.8	5869.7	5809.4	5744.6	5823.3	5929.9	5916.0	6050.3	6050.3	6017.9	5855.8
27.5°	5943.8	5902.1	5855.8	5823.3	5851.1	6017.9	6008.7	6170.8	6231.0	6170.8	5985.5
30°	6291.3	6249.6	6115.2	5971.6	5934.5	6115.2	6161.5	6305.1	6332.9	6184.7	6027.2
32.5°	6944.5	6921.3	6708.2	6286.6	6059.6	6161.5	6184.7	6346.8	6323.7	6231.0	6166.2
35°	7912.7	7834.0	7537.5	6824.0	6323.7	6221.8	6161.5	6291.3	6379.3	6332.9	6272.7
37.5°	8973.6	8885.6	8519.6	7616.2	6800.9	6383.9	6337.6	6444.1	6546.1	6522.9	6397.8
40°	9988.2	9988.2	9659.2	8607.6	7509.7	6777.7	6787.0	6666.5	6759.2	6717.5	6740.6
42.5°	10988.8	10951.8	10817.4	9770.4	8269.4	7435.5	7287.3	6986.2	7152.9	7139.0	7171.5
45°	12003.4	11975.6	11938.6	10854.5	9358.1	8325.0	8246.3	7704.2	7857.1	7792.3	7931.2
47.5°	12814.1	12846.6	12846.6	12063.6	10520.9	9511.0	9395.2	8538.1	8830.0	8862.4	8894.8
50°	13504.4	13518.3	13504.4	13217.2	11818.1	10868.4	10632.1	9761.2	10053.0	10307.8	10604.3
52.5°	14458.8	14477.3	14412.4	14301.2	13578.5	12295.3	12031.2	11063.0	11660.6	11929.3	12462.1
55°	15635.5	15496.5	15376.0	15459.4	15269.5	13865.8	13592.4	12406.5	13305.2	13661.9	14727.5
57.5°	15853.2	15973.7	16279.4	16941.9	17215.2	15394.6	15237.1	14055.7	15162.9	15473.3	17252.3
60°	16622.2	16423.0	17173.5	18609.7	18915.4	17386.6	17224.5	15862.5	17011.4	17335.7	19582.6
62.5°	17127.2	17117.9	18229.8	19934.7	20629.6	19452.8	19123.9	18211.3	19008.1	19323.1	22121.3
65°	16979.0	17113.3	19086.9	20712.9	22061.1	21801.6	21611.7	20231.1	21282.8	21255.0	23775.2
67.5°	15626.2	16006.1	18544.8	21273.5	24192.1	24664.7	24604.4	23071.0	23131.2	22542.9	24511.8
70°	13750.0	13620.2	16251.6	20689.8	25257.7	28060.5	28046.6	25183.5	24794.4	22825.5	22399.3
72°	10562.6	10419.0	12582.5	17766.5	24697.1	29417.9	29834.8	26647.5	24775.9	21653.4	18503.1
72.5°	9589.8	9464.7	11618.9	16724.2	24076.3	29769.9	29575.4	26703.1	24581.3	21102.1	17284.7
75°	4415.0	4271.4	5804.8	10238.3	18781.1	26378.8	27041.3	24989.0	21468.1	16798.3	10354.2
77.5°	1315.7	1274.0	1867.0	4132.4	10914.7	19434.3	19689.1	18855.2	14986.9	9200.6	3840.5
80°	732.0	736.6	963.6	1547.3	4799.5	11234.4	12151.7	11646.7	7352.1	3039.1	1278.6
82.5°	407.7	430.8	602.3	917.3	2205.2	5156.2	5550.0	5350.8	2659.2	1426.9	699.5
85°	213.1	222.4	315.0	491.1	1250.8	1630.7	1677.0	1797.5	1380.6	972.9	375.3
87.5°	83.4	83.4	115.8	203.8	463.3	505.0	454.0	551.3	792.2	630.1	185.3
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°	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3	4424.3
2.5°	4493.8	4456.7	4452.1	4391.8	4410.4	4359.4	4364.0	4354.8	4359.4	4350.1	4327.0
5°	4470.6	4442.8	4364.0	4415.0	4368.7	4433.5	4484.5	4466.0	4479.9	4475.2	4479.9
7.5°	4503.0	4466.0	4456.7	4428.9	4470.6	4498.4	4540.1	4655.9	4646.6	4660.5	4688.3
10°	4600.3	4558.6	4530.8	4572.5	4549.3	4637.4	4683.7	4743.9	4850.5	4855.1	4799.5
12.5°	4790.2	4762.4	4706.9	4716.1	4794.9	4822.7	4850.5	4887.5	4957.0	4943.1	4994.1
15°	5008.0	4947.8	4915.3	4906.1	4924.6	4957.0	4952.4	4989.5	5026.5	5058.9	5045.0
17.5°	5165.5	5086.7	5096.0	5142.3	5137.7	5128.4	5068.2	5049.7	5068.2	5086.7	5077.5
20°	5327.6	5336.9	5267.4	5225.7	5207.2	5114.5	5068.2	5012.6	4957.0	4984.8	5026.5
22.5°	5531.5	5489.8	5387.9	5262.8	5170.1	5114.5	4970.9	4873.6	4873.6	4901.4	4887.5
25°	5763.1	5675.1	5499.1	5272.1	5156.2	4920.0	4818.0	4804.1	4767.1	4808.8	4827.3
27.5°	5943.8	5865.0	5624.1	5239.6	4920.0	4730.0	4669.8	4651.3	4711.5	4716.1	4790.2
30°	6017.9	5994.8	5642.7	5156.2	4679.1	4373.3	4336.2	4419.6	4484.5	4581.8	4586.4
32.5°	6115.2	6124.5	5670.5	4961.7	4364.0	4058.3	4002.7	4104.6	4289.9	4368.7	4428.9
35°	6277.4	6323.7	5647.3	4720.8	4030.5	3738.6	3729.4	3757.1	3937.8	4076.8	4155.6
37.5°	6560.0	6550.7	5642.7	4433.5	3766.4	3460.7	3386.5	3395.8	3516.2	3632.1	3618.2
40°	6939.8	6902.8	5628.8	4058.3	3423.6	3224.4	3099.3	3053.0	3043.7	3011.3	3020.5
42.5°	7458.7	7384.6	5624.1	3678.4	3113.2	2900.1	2812.1	2691.6	2603.6	2436.8	2446.1
45°	8181.4	8051.7	5503.7	3321.7	2807.4	2631.4	2497.0	2409.0	2219.1	2010.6	2010.6
47.5°	9297.9	8876.3	5508.3	2927.9	2510.9	2367.3	2274.7	2121.8	1918.0	1751.2	1732.6
50°	10942.5	9978.9	5350.8	2617.5	2270.0	2172.8	2075.5	1899.4	1704.8	1589.0	1602.9
52.5°	13064.3	11623.5	5346.2	2339.5	2080.1	2010.6	1904.1	1746.5	1602.9	1528.8	1501.0
55°	15593.8	13800.9	5513.0	2112.5	1885.5	1848.5	1802.1	1672.4	1533.4	1468.6	1463.9
57.5°	18183.5	15927.3	5781.7	1950.4	1718.7	1746.5	1714.1	1612.2	1501.0	1426.9	1417.6
60°	20485.9	17613.7	5239.6	1755.8	1570.5	1630.7	1677.0	1589.0	1528.8	1524.2	1491.7
62.5°	22223.2	18336.4	3984.2	1607.6	1491.7	1602.9	1728.0	1783.6	1755.8	1792.9	1797.5
65°	22857.9	17900.9	2742.6	1528.8	1431.5	1667.8	1945.7	1927.2	1765.1	1695.6	1732.6
67.5°	21968.4	16135.8	2033.8	1436.1	1389.8	1802.1	2070.8	1839.2	1593.7	1584.4	1556.6
70°	18892.3	13675.8	1658.5	1338.9	1320.3	1728.0	2015.2	1704.8	1501.0	1440.8	1413.0
72°	15051.7	10650.7	1454.7	1269.4	1209.1	1542.7	1885.5	1598.3	1422.2	1348.1	1315.7
72.5°	13740.7	9872.4	1426.9	1236.9	1186.0	1501.0	1820.7	1565.9	1403.7	1338.9	1287.9
75°	7537.5	5054.3	1255.5	1135.0	1000.7	1297.2	1686.3	1468.6	1325.0	1232.3	1223.0
77.5°	2802.8	1959.6	1084.1	1005.3	866.3	1121.1	1533.4	1394.5	1204.5	1088.7	1065.5
80°	1074.8	1033.1	884.9	847.8	727.3	982.1	1413.0	1250.8	1023.8	908.0	871.0
82.5°	653.2	602.3	671.7	662.5	555.9	894.1	1329.6	1172.1	908.0	736.6	713.4
85°	356.7	356.7	467.9	449.4	389.1	713.4	1005.3	778.3	574.5	472.5	481.8
87.5°	157.5	185.3	250.2	236.3	213.1	403.0	491.1	412.3	287.2	194.6	208.5
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)