

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: P478603

Luminaire Tested: **IFLD-S-SA6D-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478603
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

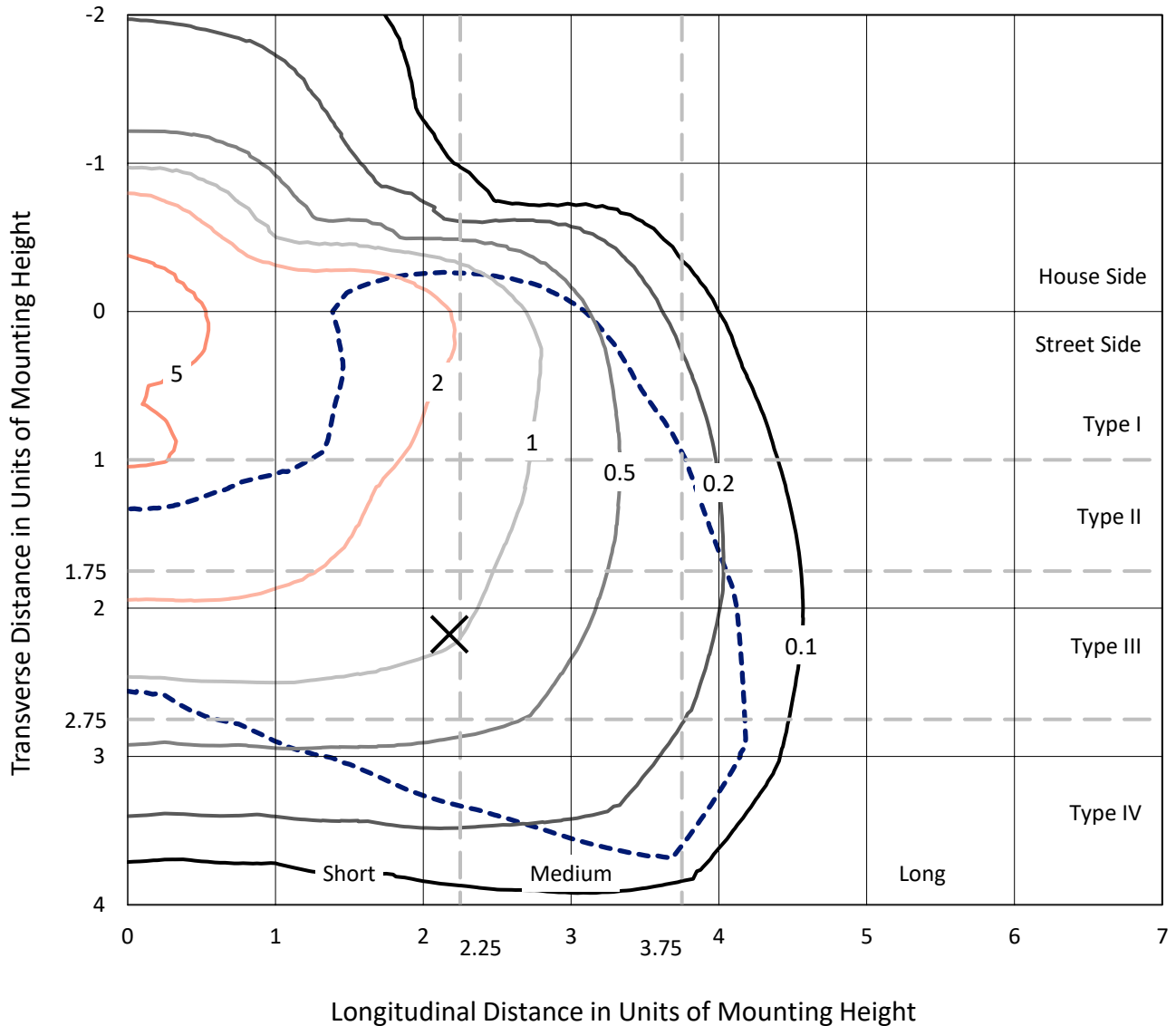
Lumens per Lamp: N/A
Luminaire Lumens: 47273 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 368.2
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

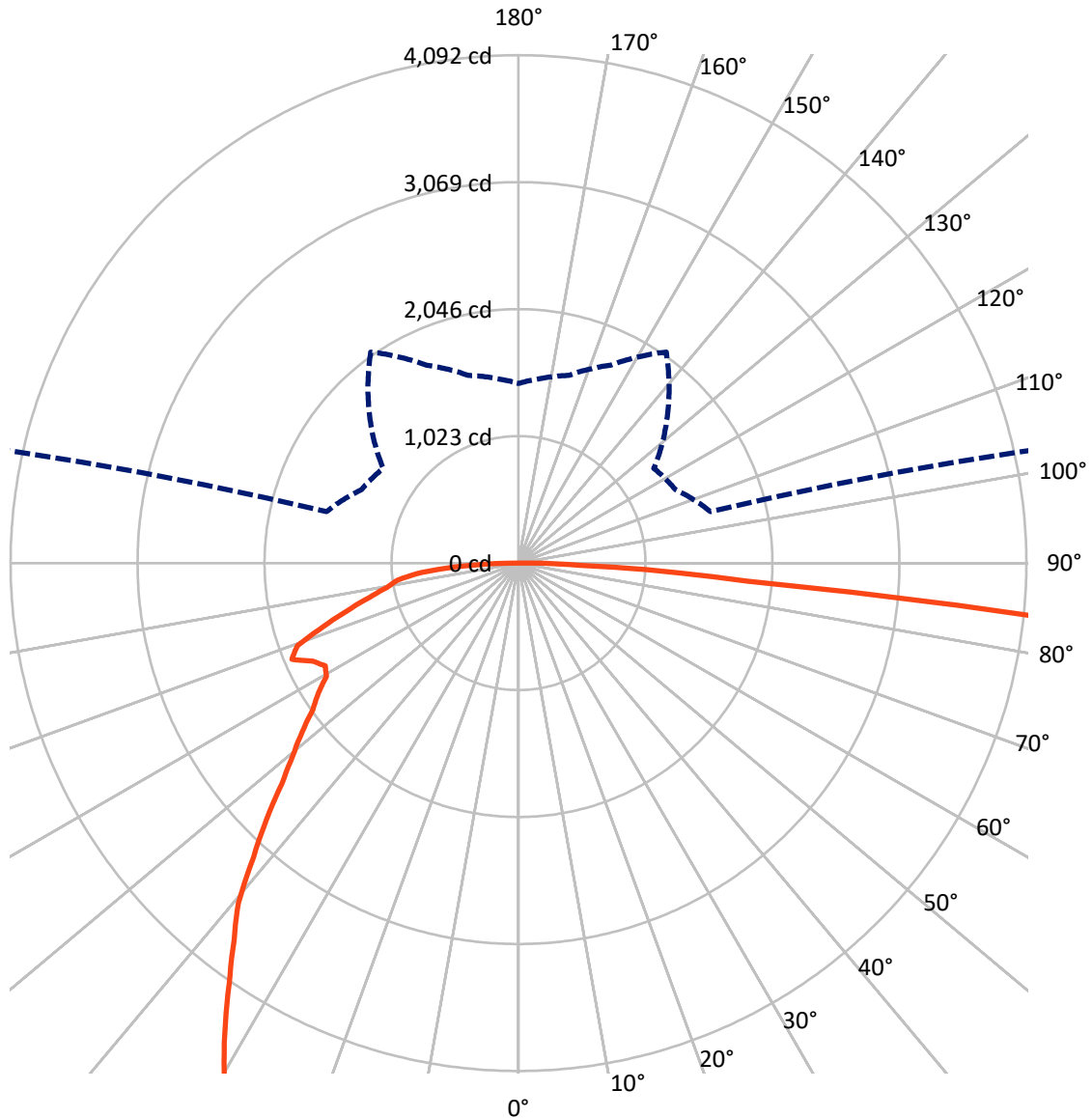
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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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	10523.3	0.0	10523.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	36749.8	0.0	36749.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	47273.0	0.0	47273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.2	1.1
10°-20°	1657.4	3.5
20°-30°	2798.9	5.9
30°-40°	3873.2	8.2
40°-50°	5540.3	11.7
50°-60°	8935.8	18.9
60°-70°	13179.0	27.9
70°-80°	9570.3	20.2
80°-90°	1220.0	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°	47273.0	100.0
0°-180°	47273.0	100.0

Coefficient of Utilization



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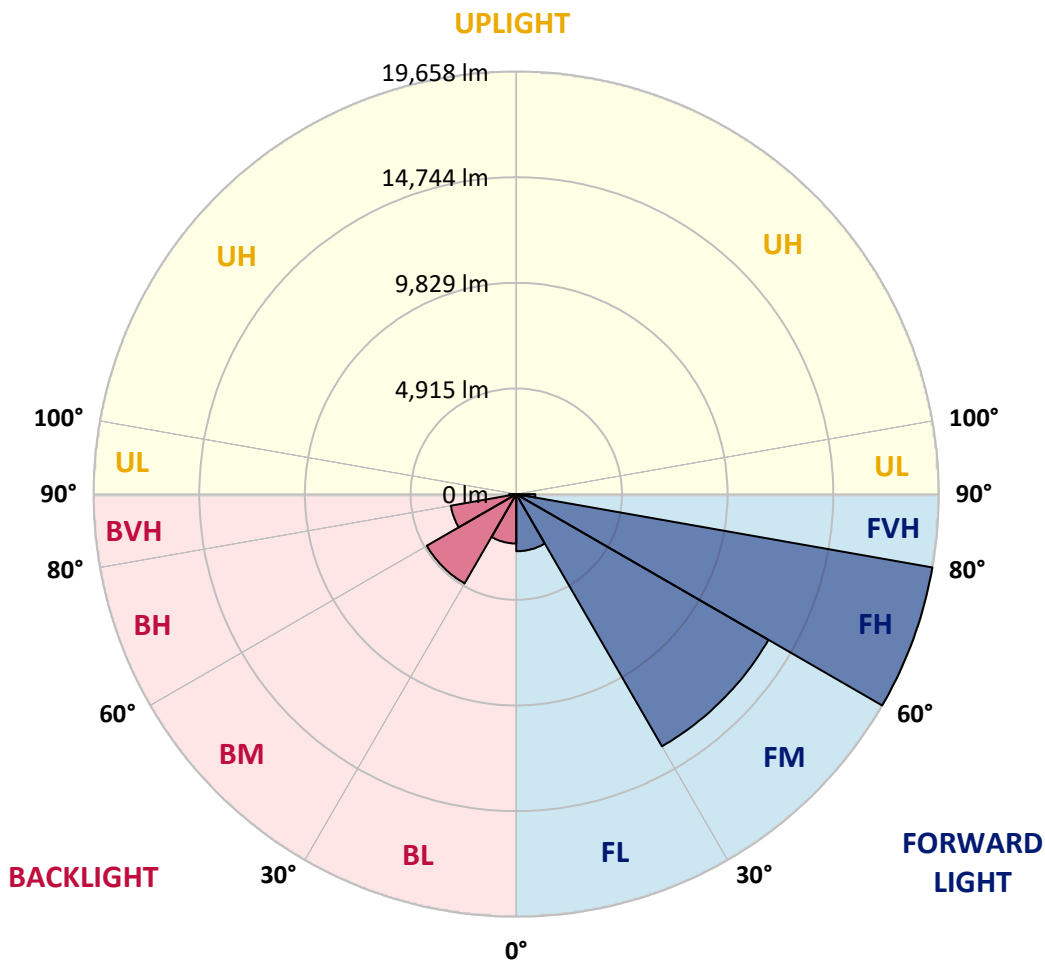
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2656.8	5.6			
FM (30°-60°)	13546.8	28.7			
FH (60°-80°)	19658.2	41.6			G5
FVH (80°-90°)	888.0	1.9			G5
BL (0°-30°)	2297.7	4.9	B3/2500		
BM (30°-60°)	4802.5	10.2	B3/5000		
BH (60°-80°)	3091.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	332.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3
2.5°	5128.2	5158.8	5128.2	5123.1	5072.2	5036.5	5067.1	5021.2	4970.2	4949.8	4903.9
5°	5597.2	5602.3	5546.3	5551.4	5444.3	5332.2	5352.5	5214.9	5067.1	5011.0	4919.2
7.5°	6076.4	6020.3	5938.8	5913.3	5745.1	5622.7	5607.4	5485.1	5255.7	5128.2	5000.8
10°	6387.4	6407.8	6275.2	6163.1	6020.3	5872.5	5867.4	5638.0	5505.5	5316.9	5153.7
12.5°	6662.6	6667.7	6555.6	6377.2	6198.8	6015.2	6040.7	5938.8	5714.5	5536.1	5372.9
15°	6876.7	6846.2	6723.8	6560.7	6372.1	6229.3	6214.0	6127.4	5938.8	5790.9	5520.8
17.5°	6937.9	6922.6	6800.3	6627.0	6443.4	6336.4	6377.2	6234.4	6158.0	6025.4	5765.5
20°	6820.7	6785.0	6764.6	6570.9	6438.3	6428.2	6392.5	6423.1	6295.6	6173.3	5984.7
22.5°	6606.6	6591.3	6581.1	6428.2	6367.0	6412.9	6474.0	6519.9	6499.5	6382.3	6168.2
25°	6387.4	6458.7	6392.5	6321.1	6407.8	6525.0	6509.7	6657.5	6657.5	6621.9	6443.4
27.5°	6540.3	6494.4	6443.4	6407.8	6438.3	6621.9	6611.7	6790.1	6856.4	6790.1	6586.2
30°	6922.6	6876.7	6728.9	6570.9	6530.1	6728.9	6779.9	6937.9	6968.5	6805.4	6632.1
32.5°	7641.4	7615.9	7381.4	6917.5	6667.7	6779.9	6805.4	6983.8	6958.3	6856.4	6785.0
35°	8706.8	8620.1	8293.9	7508.9	6958.3	6846.2	6779.9	6922.6	7019.5	6968.5	6902.2
37.5°	9874.2	9777.3	9374.6	8380.6	7483.4	7024.6	6973.6	7090.8	7203.0	7177.5	7039.9
40°	10990.6	10990.6	10628.6	9471.5	8263.3	7457.9	7468.1	7335.5	7437.5	7391.6	7417.1
42.5°	12091.7	12050.9	11903.0	10751.0	9099.3	8181.7	8018.6	7687.3	7870.8	7855.5	7891.2
45°	13208.0	13177.5	13136.7	11943.8	10297.3	9160.5	9073.8	8477.4	8645.6	8574.3	8727.2
47.5°	14100.1	14135.8	14135.8	13274.3	11576.8	10465.5	10338.1	9395.0	9716.1	9751.8	9787.5
50°	14859.7	14875.0	14859.7	14543.6	13004.1	11959.1	11699.1	10740.8	11061.9	11342.3	11668.5
52.5°	15909.8	15930.2	15858.8	15736.5	14941.2	13529.2	13238.6	12173.2	12830.8	13126.5	13712.7
55°	17204.6	17051.7	16919.1	17010.9	16801.9	15257.3	14956.5	13651.5	14640.5	15033.0	16205.5
57.5°	17444.2	17576.7	17913.2	18642.1	18942.9	16939.5	16766.2	15466.3	16684.6	17026.2	18983.7
60°	18290.4	18071.2	18897.0	20477.3	20813.7	19131.5	18953.1	17454.4	18718.6	19075.4	21547.8
62.5°	18846.1	18835.9	20059.3	21935.2	22699.9	21405.1	21043.1	20038.9	20915.7	21262.3	24341.3
65°	18682.9	18830.8	21002.4	22791.6	24275.1	23989.6	23780.6	22261.5	23418.7	23388.1	26161.2
67.5°	17194.4	17612.4	20405.9	23408.5	26620.0	27139.9	27073.7	25386.3	25452.6	24805.2	26971.7
70°	15129.9	14987.1	17882.6	22766.2	27792.4	30876.5	30861.2	27710.9	27282.7	25116.2	24647.2
72°	11622.7	11464.6	13845.2	19549.5	27175.6	32370.1	32828.9	29321.7	27262.3	23826.5	20360.1
72.5°	10552.2	10414.5	12784.9	18402.6	26492.5	32757.6	32543.5	29382.9	27048.2	23219.8	19019.4
75°	4858.1	4700.0	6387.4	11265.8	20665.9	29026.1	29755.0	27496.8	23622.6	18484.1	11393.3
77.5°	1447.7	1401.9	2054.4	4547.1	12010.1	21384.7	21665.1	20747.5	16490.9	10124.0	4226.0
80°	805.4	810.5	1060.3	1702.6	5281.2	12361.8	13371.2	12815.5	8090.0	3344.1	1407.0
82.5°	448.6	474.1	662.7	1009.3	2426.5	5673.7	6107.0	5887.8	2926.1	1570.1	769.7
85°	234.5	244.7	346.6	540.4	1376.4	1794.4	1845.4	1977.9	1519.1	1070.5	412.9
87.5°	91.8	91.8	127.4	224.3	509.8	555.6	499.6	606.6	871.7	693.3	203.9
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°	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3	4868.3
2.5°	4944.7	4903.9	4898.9	4832.6	4853.0	4796.9	4802.0	4791.8	4796.9	4786.7	4761.2
5°	4919.2	4888.7	4802.0	4858.1	4807.1	4878.5	4934.5	4914.1	4929.4	4924.3	4929.4
7.5°	4954.9	4914.1	4903.9	4873.4	4919.2	4949.8	4995.7	5123.1	5113.0	5128.2	5158.8
10°	5062.0	5016.1	4985.5	5031.4	5005.9	5102.8	5153.7	5220.0	5337.3	5342.3	5281.2
12.5°	5271.0	5240.4	5179.2	5189.4	5276.1	5306.7	5337.3	5378.0	5454.5	5439.2	5495.3
15°	5510.6	5444.3	5408.6	5398.4	5418.8	5454.5	5449.4	5490.2	5531.0	5566.6	5551.4
17.5°	5683.9	5597.2	5607.4	5658.4	5653.3	5643.1	5576.8	5556.5	5576.8	5597.2	5587.0
20°	5862.3	5872.5	5796.0	5750.2	5729.8	5627.8	5576.8	5515.7	5454.5	5485.1	5531.0
22.5°	6086.6	6040.7	5928.6	5790.9	5689.0	5627.8	5469.8	5362.7	5362.7	5393.3	5378.0
25°	6341.5	6244.6	6050.9	5801.1	5673.7	5413.7	5301.6	5286.3	5245.5	5291.4	5311.8
27.5°	6540.3	6453.6	6188.6	5765.5	5413.7	5204.7	5138.4	5118.1	5184.3	5189.4	5271.0
30°	6621.9	6596.4	6209.0	5673.7	5148.6	4812.2	4771.4	4863.2	4934.5	5041.6	5046.7
32.5°	6728.9	6739.1	6239.5	5459.6	4802.0	4465.6	4404.4	4516.5	4720.4	4807.1	4873.4
35°	6907.3	6958.3	6214.0	5194.5	4435.0	4113.8	4103.6	4134.2	4333.0	4485.9	4572.6
37.5°	7218.3	7208.1	6209.0	4878.5	4144.4	3808.0	3726.4	3736.6	3869.1	3996.6	3981.3
40°	7636.3	7595.5	6193.7	4465.6	3767.2	3548.0	3410.3	3359.4	3349.2	3313.5	3323.7
42.5°	8207.2	8125.7	6188.6	4047.5	3425.6	3191.1	3094.3	2961.7	2864.9	2681.4	2691.6
45°	9002.5	8859.7	6056.0	3655.0	3089.2	2895.5	2747.6	2650.8	2441.8	2212.4	2212.4
47.5°	10231.0	9767.1	6061.1	3221.7	2762.9	2604.9	2503.0	2334.7	2110.4	1926.9	1906.5
50°	12040.7	10980.4	5887.8	2880.2	2497.9	2390.8	2283.8	2090.0	1875.9	1748.5	1763.8
52.5°	14375.4	12790.0	5882.7	2574.3	2288.8	2212.4	2095.1	1921.8	1763.8	1682.2	1651.6
55°	17158.7	15185.9	6066.2	2324.5	2074.7	2034.0	1983.0	1840.3	1687.3	1616.0	1610.9
57.5°	20008.3	17525.8	6361.9	2146.1	1891.2	1921.8	1886.1	1774.0	1651.6	1570.1	1559.9
60°	22541.9	19381.3	5765.5	1932.0	1728.1	1794.4	1845.4	1748.5	1682.2	1677.1	1641.4
62.5°	24453.5	20176.5	4384.0	1768.9	1641.4	1763.8	1901.4	1962.6	1932.0	1972.8	1977.9
65°	25151.9	19697.4	3017.8	1682.2	1575.2	1835.2	2141.0	2120.6	1942.2	1865.7	1906.5
67.5°	24173.1	17755.2	2237.9	1580.3	1529.3	1983.0	2278.7	2023.8	1753.6	1743.4	1712.8
70°	20788.3	15048.3	1825.0	1473.2	1452.8	1901.4	2217.5	1875.9	1651.6	1585.4	1554.8
72°	16562.3	11719.5	1600.7	1396.8	1330.5	1697.5	2074.7	1758.7	1565.0	1483.4	1447.7
72.5°	15119.7	10863.1	1570.1	1361.1	1305.0	1651.6	2003.4	1723.0	1544.6	1473.2	1417.1
75°	8293.9	5561.5	1381.5	1248.9	1101.1	1427.3	1855.5	1616.0	1457.9	1356.0	1345.8
77.5°	3084.1	2156.3	1192.9	1106.2	953.3	1233.6	1687.3	1534.4	1325.4	1198.0	1172.5
80°	1182.7	1136.8	973.7	932.9	800.3	1080.7	1554.8	1376.4	1126.6	999.1	958.4
82.5°	718.8	662.7	739.2	729.0	611.7	983.8	1463.0	1289.7	999.1	810.5	785.0
85°	392.5	392.5	514.9	494.5	428.2	785.0	1106.2	856.4	632.1	520.0	530.2
87.5°	173.3	203.9	275.3	260.0	234.5	443.5	540.4	453.7	316.1	214.1	229.4
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)