

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: P478731

Luminaire Tested: **IFLD-L-SA7E-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

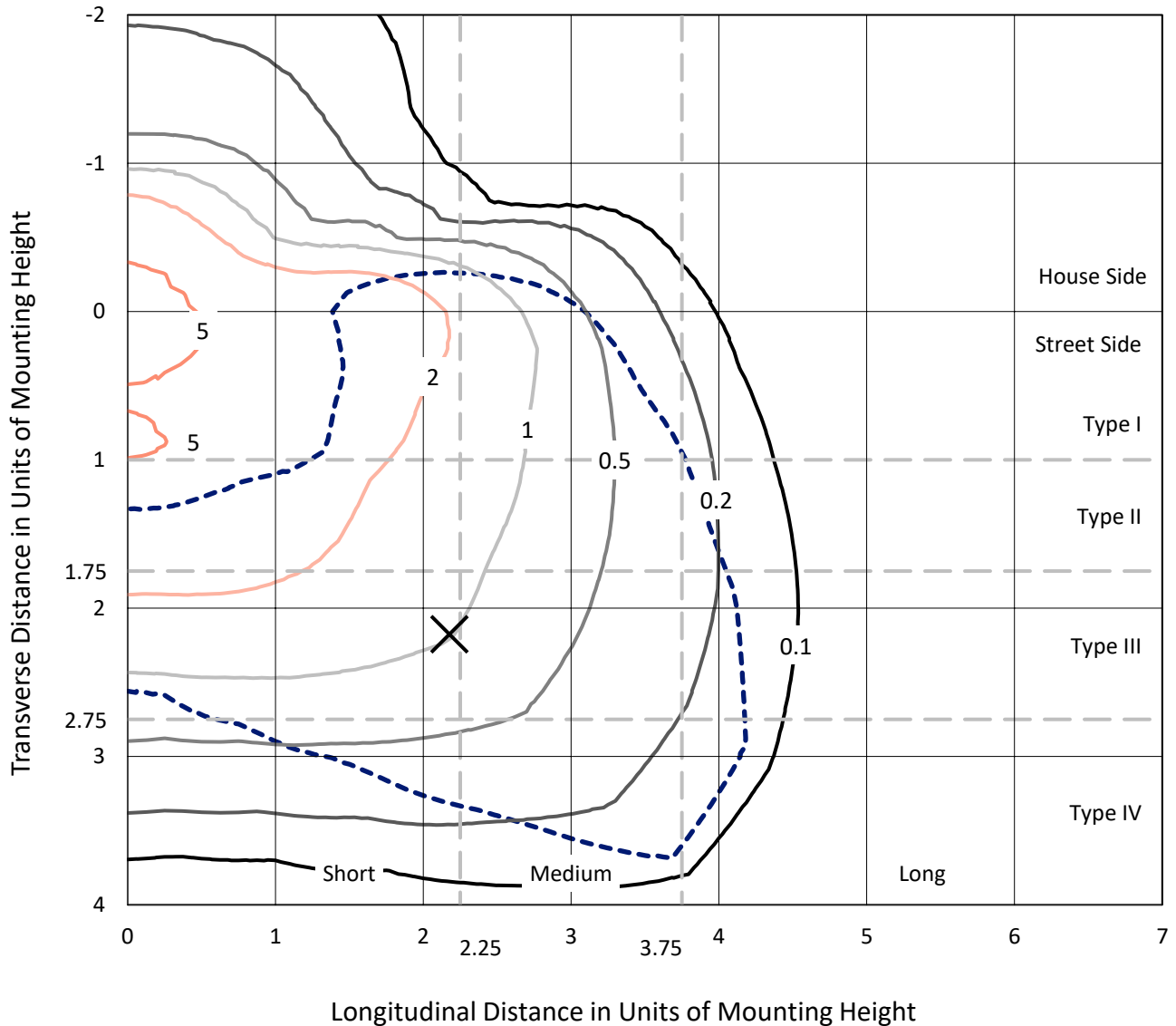
Lumens per Lamp: N/A
Luminaire Lumens: 45339.9 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

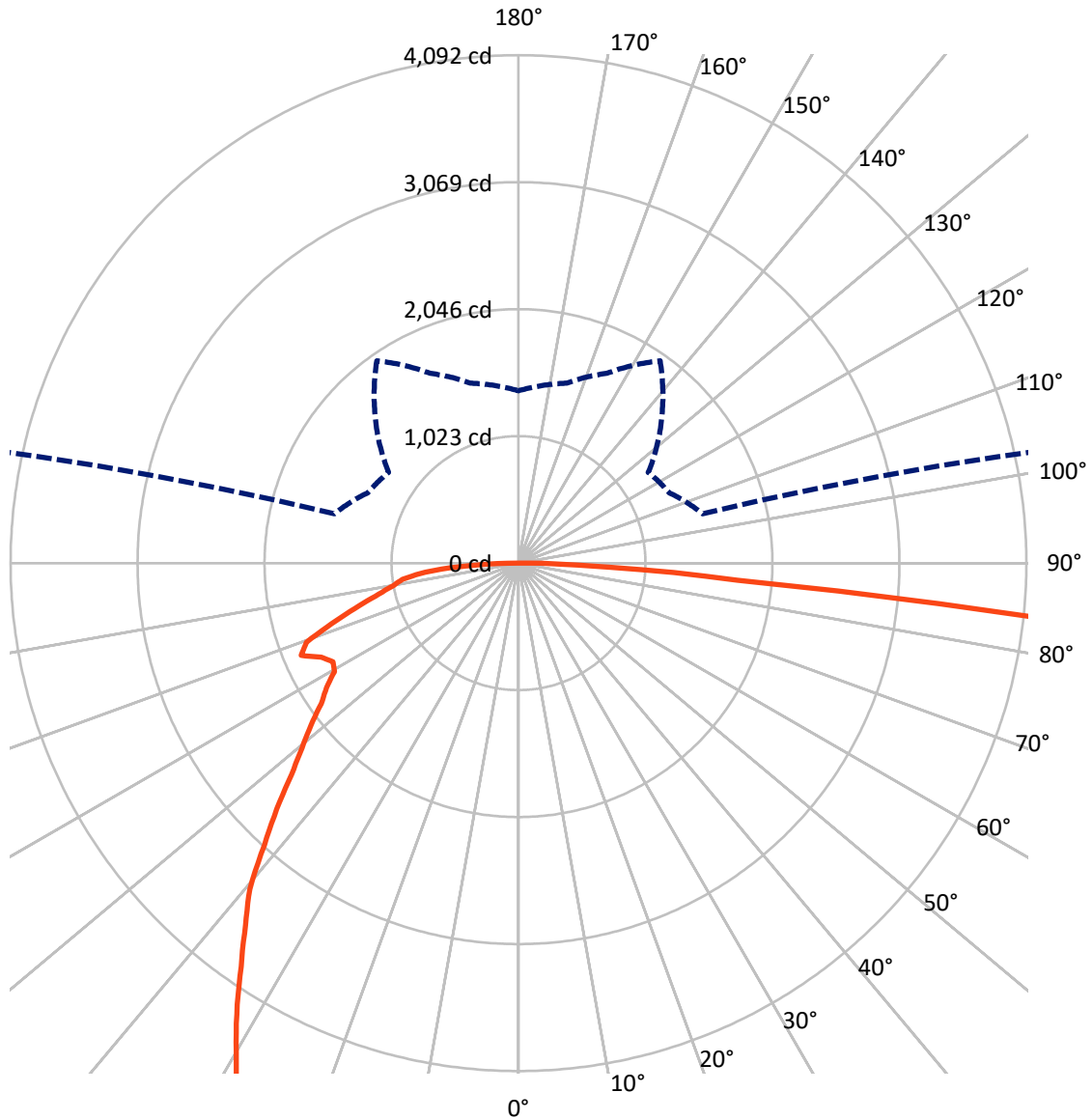
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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	10092.9	0.0	10092.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	35246.9	0.0	35246.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	45339.9	0.0	45339.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.8	1.1
10°-20°	1589.6	3.5
20°-30°	2684.4	5.9
30°-40°	3714.8	8.2
40°-50°	5313.7	11.7
50°-60°	8570.4	18.9
60°-70°	12640.1	27.9
70°-80°	9178.9	20.2
80°-90°	1170.1	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°	45339.9	100.0
0°-180°	45339.9	100.0

Coefficient of Utilization



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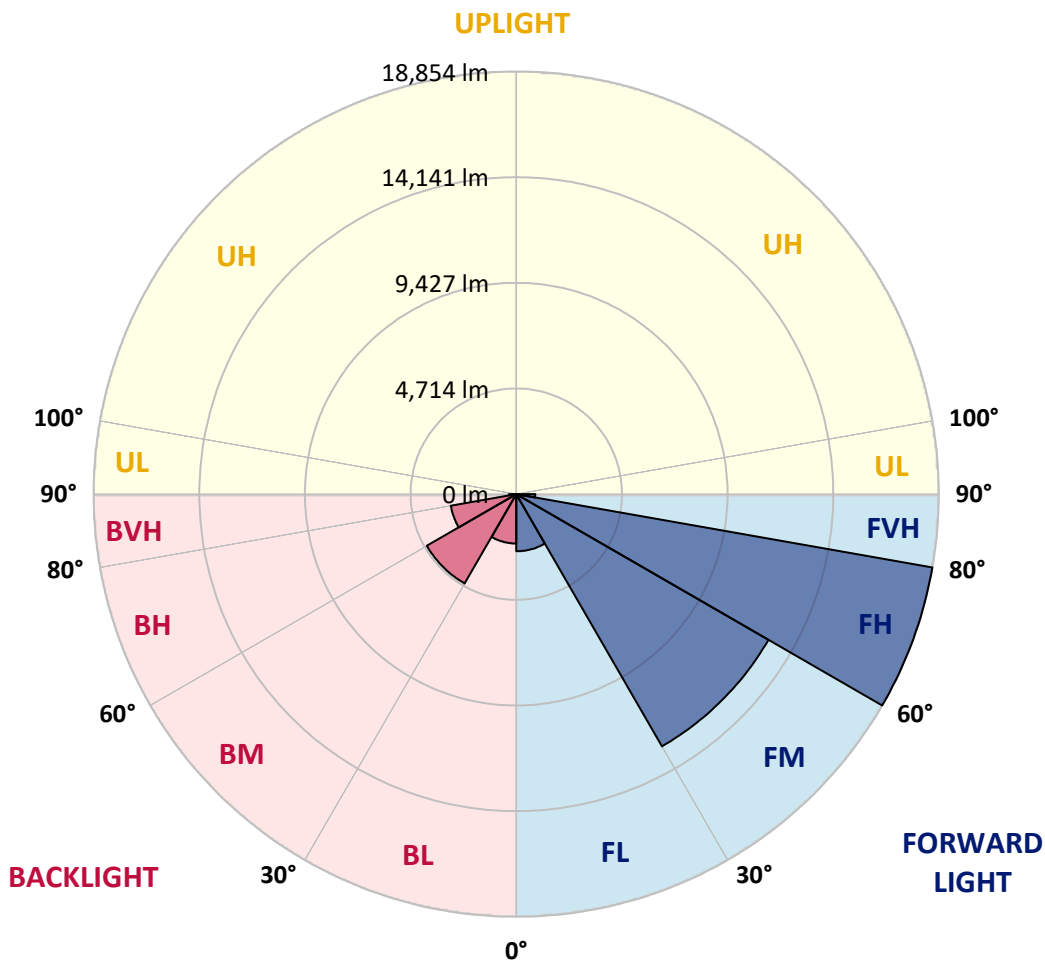
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2548.1	5.6			
FM (30°-60°)	12992.8	28.7			
FH (60°-80°)	18854.3	41.6			G5
FVH (80°-90°)	851.7	1.9			G5
BL (0°-30°)	2203.7	4.9	B3/2500		
BM (30°-60°)	4606.1	10.2	B3/5000		
BH (60°-80°)	2964.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	318.4	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°	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2
2.5°	4918.5	4947.9	4918.5	4913.6	4864.8	4830.5	4859.9	4815.9	4767.0	4747.4	4703.4
5°	5368.3	5373.2	5319.4	5324.3	5221.7	5114.1	5133.7	5001.6	4859.9	4806.1	4718.1
7.5°	5827.9	5774.1	5695.9	5671.5	5510.1	5392.8	5378.1	5260.8	5040.8	4918.5	4796.3
10°	6126.2	6145.7	6018.6	5911.0	5774.1	5632.4	5627.5	5407.5	5280.3	5099.4	4943.0
12.5°	6390.2	6395.1	6287.5	6116.4	5945.3	5769.3	5793.7	5695.9	5480.8	5309.7	5153.2
15°	6595.5	6566.2	6448.9	6292.4	6111.5	5974.6	5959.9	5876.8	5695.9	5554.1	5295.0
17.5°	6654.2	6639.5	6522.2	6356.0	6179.9	6077.3	6116.4	5979.5	5906.2	5779.0	5529.7
20°	6541.7	6507.5	6488.0	6302.2	6175.1	6165.3	6131.1	6160.4	6038.2	5920.8	5739.9
22.5°	6336.4	6321.7	6312.0	6165.3	6106.6	6150.6	6209.3	6253.3	6233.7	6121.3	5915.9
25°	6126.2	6194.6	6131.1	6062.6	6145.7	6258.2	6243.5	6385.3	6385.3	6351.1	6179.9
27.5°	6272.8	6228.8	6179.9	6145.7	6175.1	6351.1	6341.3	6512.4	6576.0	6512.4	6316.8
30°	6639.5	6595.5	6453.7	6302.2	6263.1	6453.7	6502.6	6654.2	6683.5	6527.1	6360.8
32.5°	7328.9	7304.5	7079.6	6634.6	6395.1	6502.6	6527.1	6698.2	6673.8	6576.0	6507.5
35°	8350.8	8267.6	7954.7	7201.8	6673.8	6566.2	6502.6	6639.5	6732.4	6683.5	6620.0
37.5°	9470.4	9377.5	8991.2	8037.8	7177.3	6737.3	6688.4	6800.9	6908.4	6884.0	6752.0
40°	10541.1	10541.1	10194.0	9084.1	7925.4	7152.9	7162.7	7035.6	7133.3	7089.3	7113.8
42.5°	11597.2	11558.1	11416.3	10311.3	8727.2	7847.2	7690.7	7372.9	7548.9	7534.3	7568.5
45°	12667.9	12638.6	12599.5	11455.4	9876.2	8785.9	8702.8	8130.7	8292.1	8223.6	8370.3
47.5°	13523.5	13557.7	13557.7	12731.5	11103.4	10037.5	9915.3	9010.8	9318.8	9353.0	9387.3
50°	14252.0	14266.7	14252.0	13948.9	12472.3	11470.1	11220.7	10301.5	10609.6	10878.5	11191.4
52.5°	15259.2	15278.7	15210.3	15093.0	14330.2	12975.9	12697.2	11675.4	12306.1	12589.7	13151.9
55°	16501.0	16354.4	16227.2	16315.3	16114.8	14633.4	14344.9	13093.3	14041.8	14418.2	15542.8
57.5°	16730.8	16858.0	17180.6	17879.8	18168.3	16246.8	16080.6	14833.8	16002.3	16329.9	18207.4
60°	17542.4	17332.2	18124.3	19639.9	19962.6	18349.2	18178.0	16740.6	17953.1	18295.4	20666.6
62.5°	18075.4	18065.6	19239.0	21038.2	21771.6	20529.7	20182.6	19219.4	20060.4	20392.8	23345.9
65°	17918.9	18060.7	20143.5	21859.6	23282.4	23008.6	22808.1	21351.1	22461.0	22431.6	25091.4
67.5°	16491.3	16892.2	19571.5	22451.2	25531.4	26030.1	25966.5	24348.2	24411.8	23790.8	25868.7
70°	14511.1	14374.2	17151.3	21835.2	26655.9	29613.9	29599.2	26577.7	26167.0	24089.1	23639.3
72°	11147.4	10995.8	13279.1	18750.1	26064.3	31046.4	31486.4	28122.7	26147.4	22852.1	19527.5
72.5°	10120.6	9988.6	12262.1	17650.0	25409.2	31418.0	31212.6	28181.3	25942.1	22270.3	18241.6
75°	4659.4	4507.8	6126.2	10805.1	19820.8	27839.1	28538.2	26372.3	22656.5	17728.2	10927.4
77.5°	1388.5	1344.5	1970.3	4361.2	11519.0	20510.2	20779.1	19899.0	15816.6	9709.9	4053.1
80°	772.5	777.4	1017.0	1633.0	5065.2	11856.3	12824.4	12291.4	7759.2	3207.3	1349.4
82.5°	430.2	454.7	635.6	968.1	2327.3	5441.7	5857.3	5647.0	2806.4	1505.9	738.3
85°	224.9	234.7	332.5	518.3	1320.1	1721.0	1769.9	1897.0	1457.0	1026.7	396.0
87.5°	88.0	88.0	122.2	215.1	488.9	532.9	479.1	581.8	836.1	664.9	195.6
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°	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2	4669.2
2.5°	4742.5	4703.4	4698.5	4635.0	4654.5	4600.7	4605.6	4595.8	4600.7	4591.0	4566.5
5°	4718.1	4688.7	4605.6	4659.4	4610.5	4679.0	4732.7	4713.2	4727.9	4723.0	4727.9
7.5°	4752.3	4713.2	4703.4	4674.1	4718.1	4747.4	4791.4	4913.6	4903.9	4918.5	4947.9
10°	4855.0	4811.0	4781.6	4825.6	4801.2	4894.1	4943.0	5006.5	5119.0	5123.9	5065.2
12.5°	5055.4	5026.1	4967.4	4977.2	5060.3	5089.7	5119.0	5158.1	5231.4	5216.8	5270.6
15°	5285.2	5221.7	5187.4	5177.7	5197.2	5231.4	5226.6	5265.7	5304.8	5339.0	5324.3
17.5°	5451.5	5368.3	5378.1	5427.0	5422.1	5412.3	5348.8	5329.2	5348.8	5368.3	5358.6
20°	5622.6	5632.4	5559.0	5515.0	5495.5	5397.7	5348.8	5290.1	5231.4	5260.8	5304.8
22.5°	5837.7	5793.7	5686.1	5554.1	5456.3	5397.7	5246.1	5143.4	5143.4	5172.8	5158.1
25°	6082.2	5989.3	5803.5	5563.9	5441.7	5192.3	5084.8	5070.1	5031.0	5075.0	5094.5
27.5°	6272.8	6189.7	5935.5	5529.7	5192.3	4991.9	4928.3	4908.8	4972.3	4977.2	5055.4
30°	6351.1	6326.6	5955.0	5441.7	4938.1	4615.4	4576.3	4664.3	4732.7	4835.4	4840.3
32.5°	6453.7	6463.5	5984.4	5236.3	4605.6	4282.9	4224.3	4331.8	4527.4	4610.5	4674.1
35°	6624.9	6673.8	5959.9	4982.1	4253.6	3945.6	3935.8	3965.1	4155.8	4302.5	4385.6
37.5°	6923.1	6913.3	5955.0	4679.0	3974.9	3652.2	3574.0	3583.8	3710.9	3833.1	3818.5
40°	7324.0	7284.9	5940.4	4282.9	3613.1	3402.9	3270.9	3222.0	3212.2	3178.0	3187.8
42.5°	7871.6	7793.4	5935.5	3882.0	3285.5	3060.6	2967.7	2840.6	2747.7	2571.7	2581.5
45°	8634.3	8497.4	5808.4	3505.6	2962.9	2777.1	2635.3	2542.4	2341.9	2121.9	2121.9
47.5°	9812.6	9367.7	5813.3	3090.0	2649.9	2498.4	2400.6	2239.3	2024.1	1848.1	1828.6
50°	11548.3	10531.3	5647.0	2762.4	2395.7	2293.0	2190.4	2004.6	1799.2	1677.0	1691.7
52.5°	13787.5	12267.0	5642.1	2469.0	2195.2	2121.9	2009.5	1843.2	1691.7	1613.4	1584.1
55°	16457.0	14564.9	5818.1	2229.5	1989.9	1950.8	1901.9	1765.0	1618.3	1549.9	1545.0
57.5°	19190.1	16809.1	6101.7	2058.4	1813.9	1843.2	1809.0	1701.4	1584.1	1505.9	1496.1
60°	21620.0	18588.7	5529.7	1853.0	1657.4	1721.0	1769.9	1677.0	1613.4	1608.5	1574.3
62.5°	23453.5	19351.4	4204.7	1696.6	1574.3	1691.7	1823.7	1882.3	1853.0	1892.1	1897.0
65°	24123.3	18891.9	2894.4	1613.4	1510.8	1760.1	2053.5	2033.9	1862.8	1789.4	1828.6
67.5°	23184.6	17029.1	2146.4	1515.7	1466.8	1901.9	2185.5	1941.0	1681.9	1672.1	1642.8
70°	19938.1	14432.9	1750.3	1413.0	1393.4	1823.7	2126.8	1799.2	1584.1	1520.5	1491.2
72°	15885.0	11240.3	1535.2	1339.6	1276.1	1628.1	1989.9	1686.8	1501.0	1422.8	1388.5
72.5°	14501.4	10418.9	1505.9	1305.4	1251.6	1584.1	1921.5	1652.5	1481.4	1413.0	1359.2
75°	7954.7	5334.1	1325.0	1197.9	1056.1	1369.0	1779.7	1549.9	1398.3	1300.5	1290.7
77.5°	2958.0	2068.1	1144.1	1061.0	914.3	1183.2	1618.3	1471.6	1271.2	1149.0	1124.5
80°	1134.3	1090.3	933.8	894.7	767.6	1036.5	1491.2	1320.1	1080.5	958.3	919.2
82.5°	689.4	635.6	708.9	699.2	586.7	943.6	1403.2	1237.0	958.3	777.4	752.9
85°	376.5	376.5	493.8	474.3	410.7	752.9	1061.0	821.4	606.3	498.7	508.5
87.5°	166.2	195.6	264.0	249.3	224.9	425.4	518.3	435.1	303.1	205.3	220.0
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)