

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: P478539

Luminaire Tested: **IFLD-L-SA8C-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478539
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

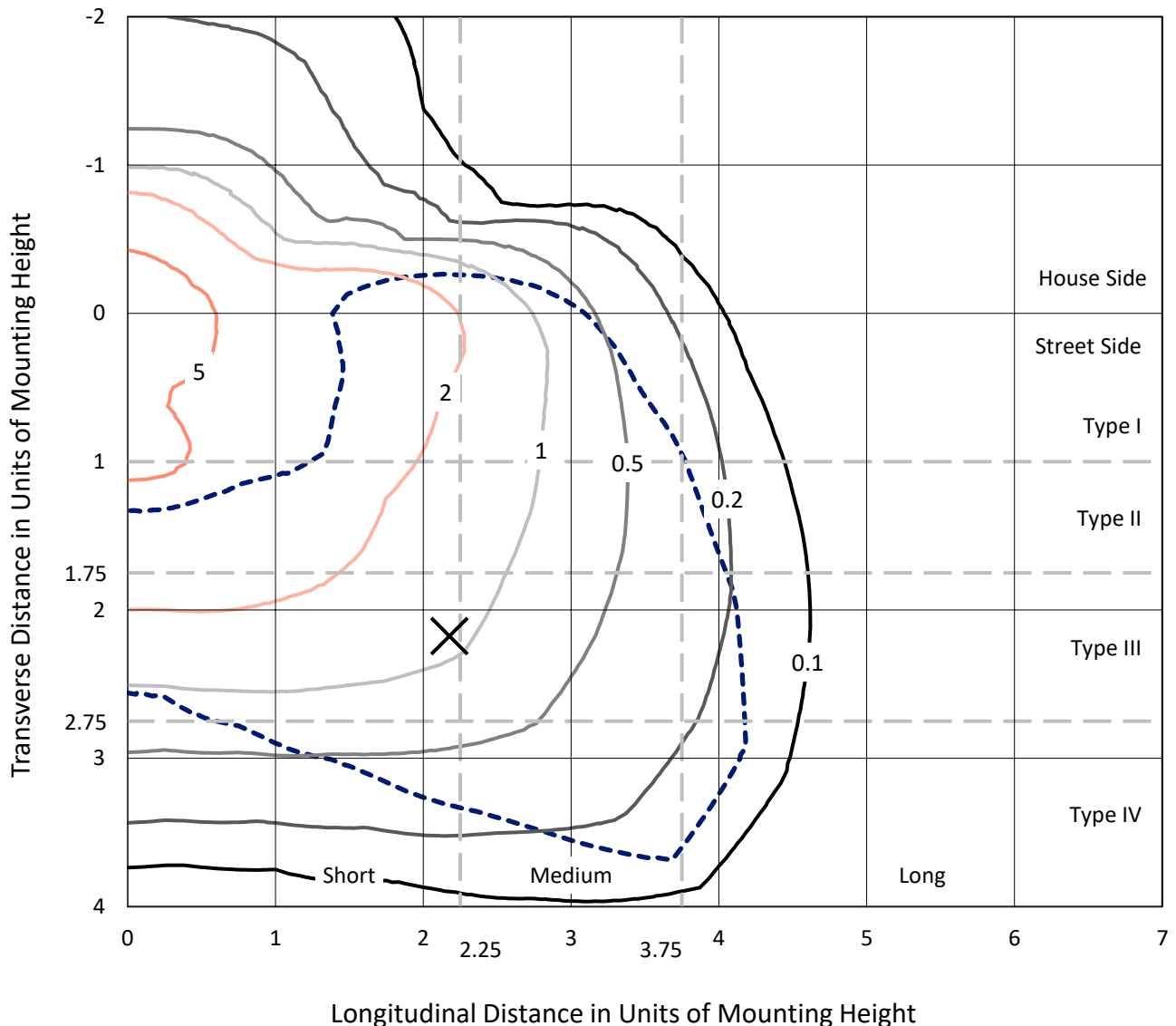
Lumens per Lamp: N/A
Luminaire Lumens: 50508.5 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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: P478539
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

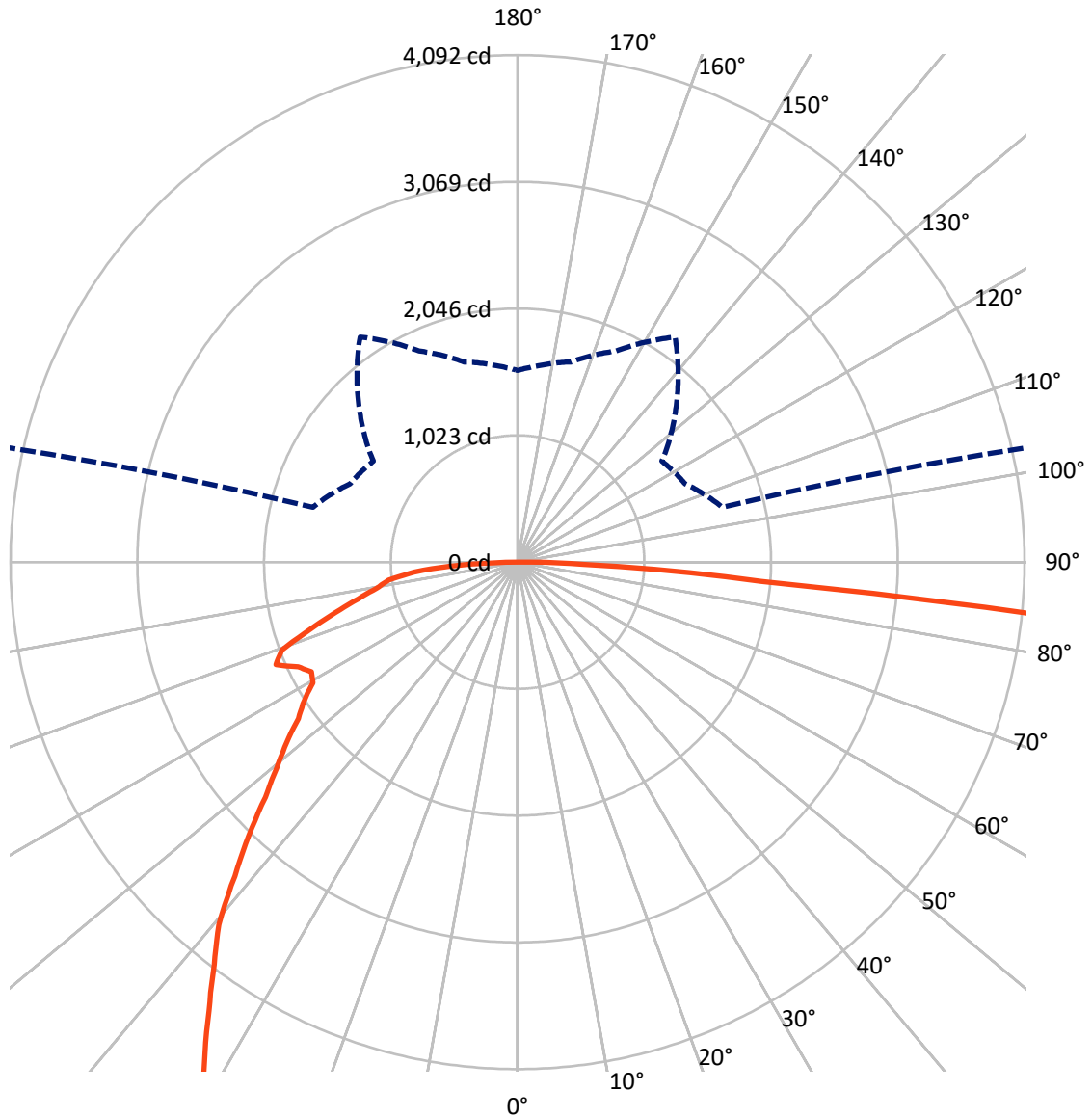
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P478539
CATALOG NUMBER: IFLD-L-SA8C-735-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478539

CATALOG NUMBER: IFLD-L-SA8C-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11243.5	0.0	11243.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	39265.0	0.0	39265.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	50508.5	0.0	50508.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.3	1.1
10°-20°	1770.8	3.5
20°-30°	2990.5	5.9
30°-40°	4138.3	8.2
40°-50°	5919.5	11.7
50°-60°	9547.4	18.9
60°-70°	14081.1	27.9
70°-80°	10225.3	20.2
80°-90°	1303.5	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°	50508.5	100.0
0°-180°	50508.5	100.0

Coefficient of Utilization



REPORT NUMBER: P478539

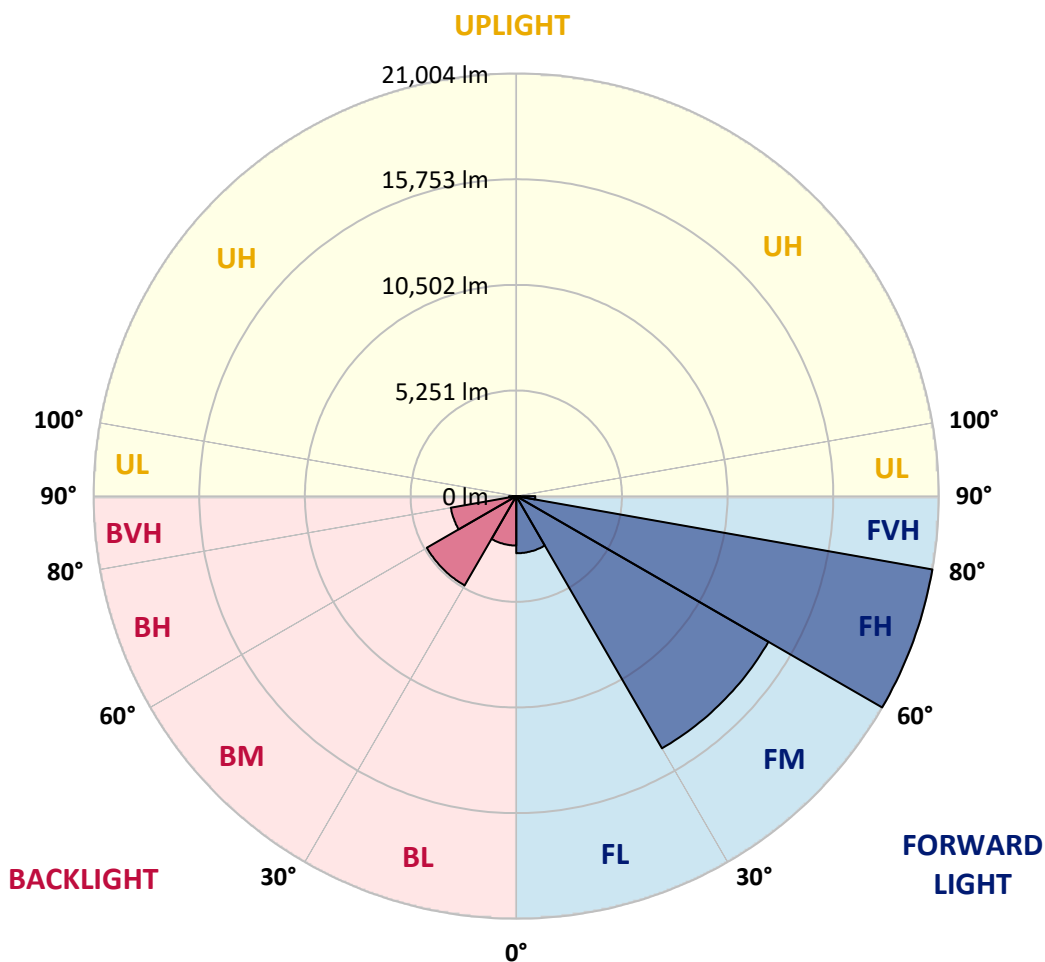
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2838.6	5.6			
FM (30°-60°)	14474.0	28.7			
FH (60°-80°)	21003.7	41.6			G5
FVH (80°-90°)	948.7	1.9			G5
BL (0°-30°)	2454.9	4.9	B3/2500		
BM (30°-60°)	5131.2	10.2	B4/8500		
BH (60°-80°)	3302.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	354.7	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: P478539
 CATALOG NUMBER: IFLD-L-SA8C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5
2.5°	5479.2	5511.9	5479.2	5473.8	5419.3	5381.2	5413.9	5364.9	5310.4	5288.6	5239.6
5°	5980.3	5985.8	5925.9	5931.3	5816.9	5697.1	5718.9	5571.8	5413.9	5354.0	5255.9
7.5°	6492.3	6432.4	6345.2	6318.0	6138.3	6007.6	5991.2	5860.5	5615.4	5479.2	5343.1
10°	6824.5	6846.3	6704.7	6584.9	6432.4	6274.4	6269.0	6023.9	5882.3	5680.8	5506.5
12.5°	7118.7	7124.1	7004.3	6813.6	6623.0	6426.9	6454.2	6345.2	6105.6	5915.0	5740.7
15°	7347.4	7314.7	7184.0	7009.7	6808.2	6655.7	6639.4	6546.8	6345.2	6187.3	5898.6
17.5°	7412.8	7396.4	7265.7	7080.5	6884.5	6770.1	6813.6	6661.1	6579.4	6437.8	6160.1
20°	7287.5	7249.4	7227.6	7020.6	6879.0	6868.1	6830.0	6862.7	6726.5	6595.8	6394.3
22.5°	7058.7	7042.4	7031.5	6868.1	6802.8	6851.8	6917.1	6966.2	6944.4	6819.1	6590.3
25°	6824.5	6900.8	6830.0	6753.7	6846.3	6971.6	6955.3	7113.2	7113.2	7075.1	6884.5
27.5°	6987.9	6938.9	6884.5	6846.3	6879.0	7075.1	7064.2	7254.8	7325.6	7254.8	7037.0
30°	7396.4	7347.4	7189.5	7020.6	6977.0	7189.5	7243.9	7412.8	7445.4	7271.2	7086.0
32.5°	8164.4	8137.2	7886.6	7391.0	7124.1	7243.9	7271.2	7461.8	7434.6	7325.6	7249.4
35°	9302.7	9210.1	8861.6	8022.8	7434.6	7314.7	7243.9	7396.4	7499.9	7445.4	7374.6
37.5°	10550.0	10446.5	10016.2	8954.1	7995.6	7505.4	7450.9	7576.2	7696.0	7668.8	7521.7
40°	11742.8	11742.8	11356.1	10119.7	8828.9	7968.3	7979.2	7837.6	7946.5	7897.5	7924.7
42.5°	12919.2	12875.7	12717.7	11486.8	9722.1	8741.7	8567.4	8213.4	8409.5	8393.1	8431.3
45°	14112.0	14079.4	14035.8	12761.3	11002.1	9787.5	9694.9	9057.6	9237.4	9161.1	9324.5
47.5°	15065.2	15103.3	15103.3	14182.8	12369.1	11181.8	11045.6	10038.0	10381.1	10419.3	10457.4
50°	15876.7	15893.1	15876.7	15539.0	13894.2	12777.6	12499.9	11475.9	11819.0	12118.6	12467.2
52.5°	16998.7	17020.5	16944.3	16813.5	15963.9	14455.2	14144.7	13006.4	13709.0	14024.9	14651.2
55°	18382.1	18218.7	18077.1	18175.2	17951.9	16301.6	15980.2	14585.9	15642.5	16061.9	17314.6
57.5°	18638.1	18779.7	19139.2	19918.1	20239.4	18098.9	17913.7	16524.9	17826.6	18191.5	20283.0
60°	19542.3	19308.1	20190.4	21878.8	22238.3	20440.9	20250.3	18649.0	19999.8	20381.0	23022.6
62.5°	20135.9	20125.0	21432.2	23436.6	24253.5	22870.1	22483.4	21410.4	22347.2	22717.6	26007.3
65°	19961.6	20119.6	22439.8	24351.6	25936.5	25631.5	25408.2	23785.1	25021.5	24988.8	27951.7
67.5°	18371.2	18817.9	21802.6	25010.6	28441.9	28997.5	28926.7	27123.9	27194.7	26503.0	28817.8
70°	16165.4	16012.9	19106.5	24324.3	29694.6	32989.8	32973.5	29607.5	29150.0	26835.2	26334.1
72°	12418.2	12249.3	14792.9	20887.6	29035.6	34585.7	35075.9	31328.6	29128.2	25457.2	21753.6
72.5°	11274.4	11127.3	13660.0	19662.1	28305.8	34999.6	34770.8	31394.0	28899.5	24809.1	20321.1
75°	5190.6	5021.7	6824.5	12036.9	22080.4	31012.7	31791.6	29378.7	25239.4	19749.2	12173.1
77.5°	1546.8	1497.8	2195.0	4858.3	12832.1	22848.3	23147.9	22167.5	17619.6	10816.9	4515.2
80°	860.6	866.0	1132.9	1819.2	5642.6	13207.9	14286.3	13692.7	8643.7	3572.9	1503.3
82.5°	479.3	506.5	708.1	1078.4	2592.6	6062.0	6525.0	6290.8	3126.3	1677.5	822.4
85°	250.5	261.4	370.4	577.3	1470.6	1917.2	1971.7	2113.3	1623.1	1143.8	441.2
87.5°	98.0	98.0	136.2	239.6	544.7	593.7	533.8	648.1	931.4	740.7	217.9
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°	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5	5201.5
2.5°	5283.2	5239.6	5234.1	5163.3	5185.1	5125.2	5130.7	5119.8	5125.2	5114.3	5087.1
5°	5255.9	5223.3	5130.7	5190.6	5136.1	5212.4	5272.3	5250.5	5266.8	5261.4	5266.8
7.5°	5294.1	5250.5	5239.6	5206.9	5255.9	5288.6	5337.6	5473.8	5462.9	5479.2	5511.9
10°	5408.4	5359.4	5326.7	5375.8	5348.5	5452.0	5506.5	5577.3	5702.5	5708.0	5642.6
12.5°	5631.7	5599.1	5533.7	5544.6	5637.2	5669.9	5702.5	5746.1	5827.8	5811.5	5871.4
15°	5887.7	5816.9	5778.8	5767.9	5789.7	5827.8	5822.4	5865.9	5909.5	5947.6	5931.3
17.5°	6072.9	5980.3	5991.2	6045.7	6040.2	6029.3	5958.5	5936.8	5958.5	5980.3	5969.4
20°	6263.5	6274.4	6192.7	6143.7	6121.9	6013.0	5958.5	5893.2	5827.8	5860.5	5909.5
22.5°	6503.2	6454.2	6334.4	6187.3	6078.4	6013.0	5844.2	5729.8	5729.8	5762.5	5746.1
25°	6775.5	6672.0	6465.1	6198.2	6062.0	5784.2	5664.4	5648.1	5604.5	5653.5	5675.3
27.5°	6987.9	6895.3	6612.1	6160.1	5784.2	5560.9	5490.1	5468.3	5539.2	5544.6	5631.7
30°	7075.1	7047.8	6633.9	6062.0	5501.0	5141.6	5098.0	5196.0	5272.3	5386.6	5392.1
32.5°	7189.5	7200.4	6666.6	5833.3	5130.7	4771.2	4705.8	4825.7	5043.5	5136.1	5206.9
35°	7380.1	7434.6	6639.4	5550.0	4738.5	4395.4	4384.5	4417.2	4629.6	4793.0	4885.6
37.5°	7712.3	7701.4	6633.9	5212.4	4428.1	4068.6	3981.4	3992.3	4133.9	4270.1	4253.8
40°	8158.9	8115.4	6617.6	4771.2	4025.0	3790.8	3643.7	3589.3	3578.4	3540.3	3551.2
42.5°	8769.0	8681.8	6612.1	4324.6	3660.1	3409.5	3306.1	3164.5	3061.0	2864.9	2875.8
45°	9618.6	9466.1	6470.5	3905.2	3300.6	3093.6	2935.7	2832.2	2608.9	2363.8	2363.8
47.5°	10931.2	10435.6	6476.0	3442.2	2952.0	2783.2	2674.3	2494.5	2254.9	2058.8	2037.0
50°	12864.8	11731.9	6290.8	3077.3	2668.8	2554.4	2440.1	2233.1	2004.3	1868.2	1884.5
52.5°	15359.3	13665.4	6285.3	2750.5	2445.5	2363.8	2238.5	2053.4	1884.5	1797.4	1764.7
55°	18333.1	16225.3	6481.4	2483.6	2216.8	2173.2	2118.7	1966.2	1802.8	1726.6	1721.1
57.5°	21377.8	18725.3	6797.3	2293.0	2020.7	2053.4	2015.2	1895.4	1764.7	1677.5	1666.6
60°	24084.7	20707.8	6160.1	2064.2	1846.4	1917.2	1971.7	1868.2	1797.4	1791.9	1753.8
62.5°	26127.2	21557.5	4684.0	1890.0	1753.8	1884.5	2031.6	2096.9	2064.2	2107.8	2113.3
65°	26873.3	21045.5	3224.4	1797.4	1683.0	1960.8	2287.6	2265.8	2075.1	1993.4	2037.0
67.5°	25827.6	18970.4	2391.0	1688.4	1634.0	2118.7	2434.6	2162.3	1873.6	1862.7	1830.0
70°	22211.1	16078.2	1949.9	1574.1	1552.3	2031.6	2369.3	2004.3	1764.7	1693.9	1661.2
72°	17695.9	12521.6	1710.2	1492.4	1421.6	1813.7	2216.8	1879.1	1672.1	1584.9	1546.8
72.5°	16154.5	11606.6	1677.5	1454.2	1394.3	1764.7	2140.5	1840.9	1650.3	1574.1	1514.1
75°	8861.6	5942.2	1476.0	1334.4	1176.5	1525.0	1982.5	1726.6	1557.7	1448.8	1437.9
77.5°	3295.2	2303.9	1274.5	1181.9	1018.5	1318.1	1802.8	1639.4	1416.1	1279.9	1252.7
80°	1263.6	1214.6	1040.3	996.7	855.1	1154.7	1661.2	1470.6	1203.7	1067.5	1024.0
82.5°	768.0	708.1	789.8	778.9	653.6	1051.2	1563.2	1378.0	1067.5	866.0	838.8
85°	419.4	419.4	550.1	528.3	457.5	838.8	1181.9	915.0	675.4	555.5	566.4
87.5°	185.2	217.9	294.1	277.8	250.5	473.9	577.3	484.7	337.7	228.8	245.1
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)