

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: P480992

Luminaire Tested: **IFLD-L-SA7D-760-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480992
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-760-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

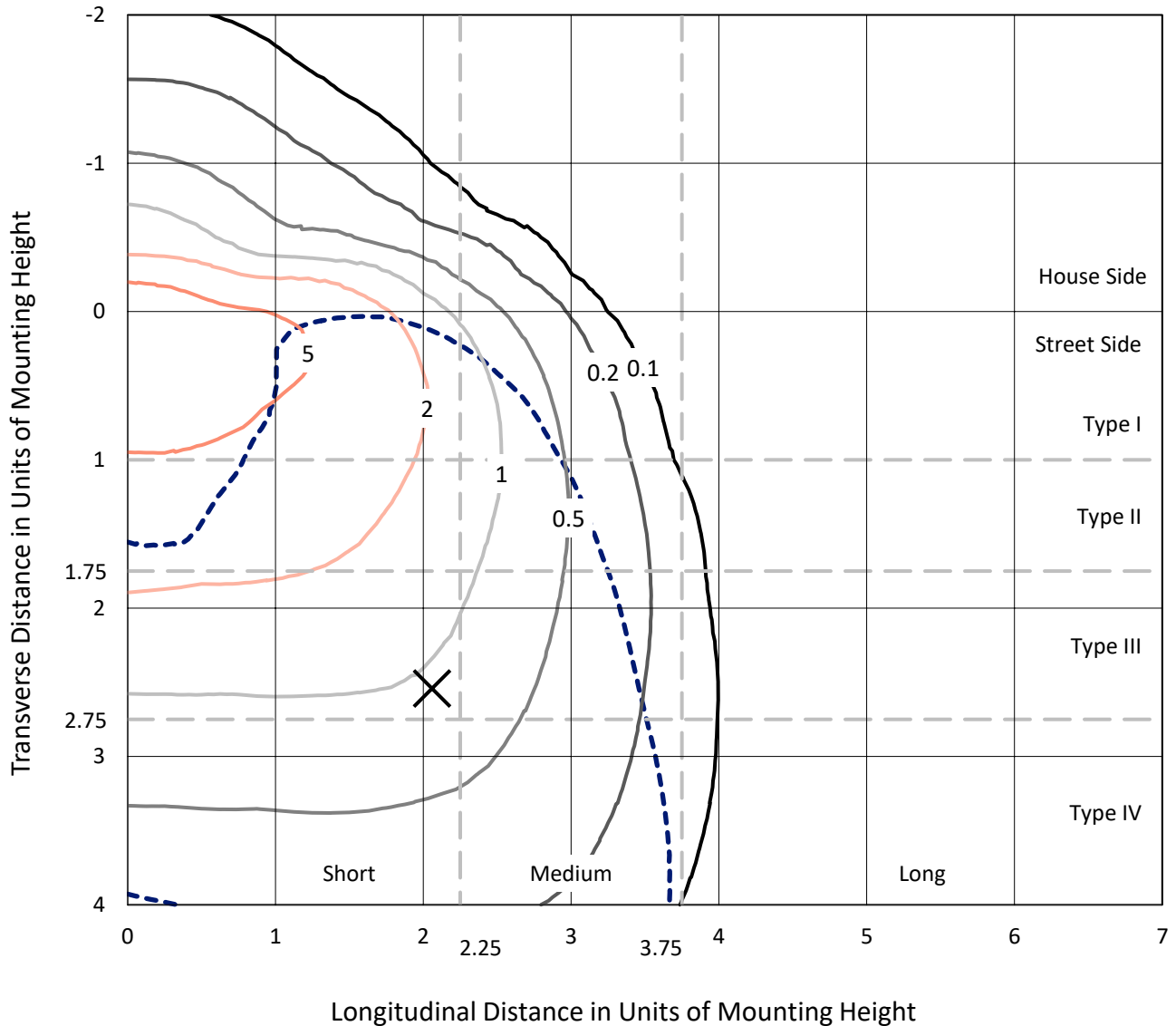
Lumens per Lamp: N/A
Luminaire Lumens: 48263.6 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

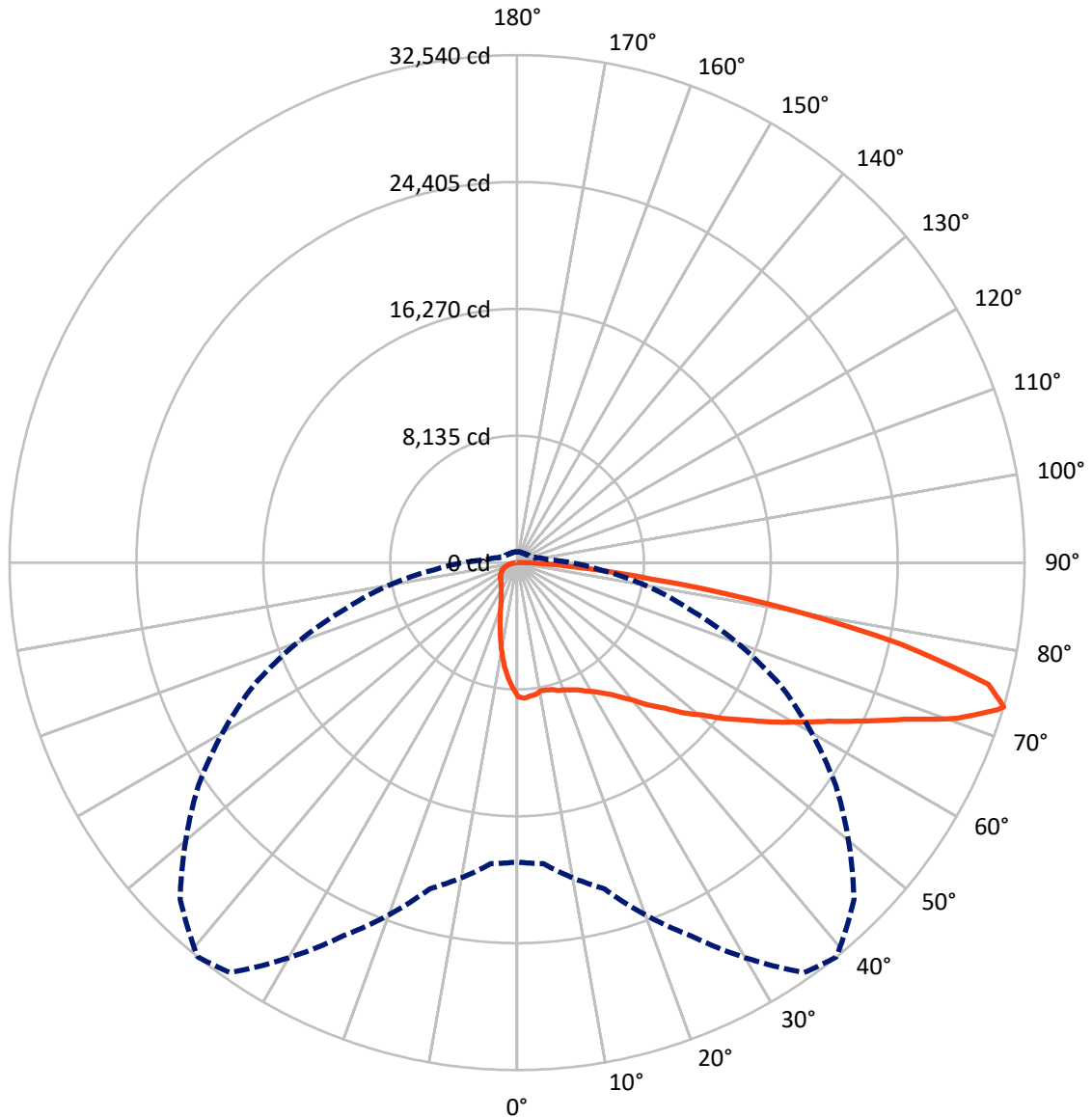
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6784.5	0.0	6784.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	41479.0	0.0	41479.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	48263.6	0.0	48263.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.8	1.5
10°-20°	1895.9	3.9
20°-30°	2897.1	6.0
30°-40°	4224.1	8.8
40°-50°	6383.1	13.2
50°-60°	9243.0	19.2
60°-70°	11743.7	24.3
70°-80°	9520.1	19.7
80°-90°	1610.8	3.3
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°	48263.6	100.0
0°-180°	48263.6	100.0

Coefficient of Utilization



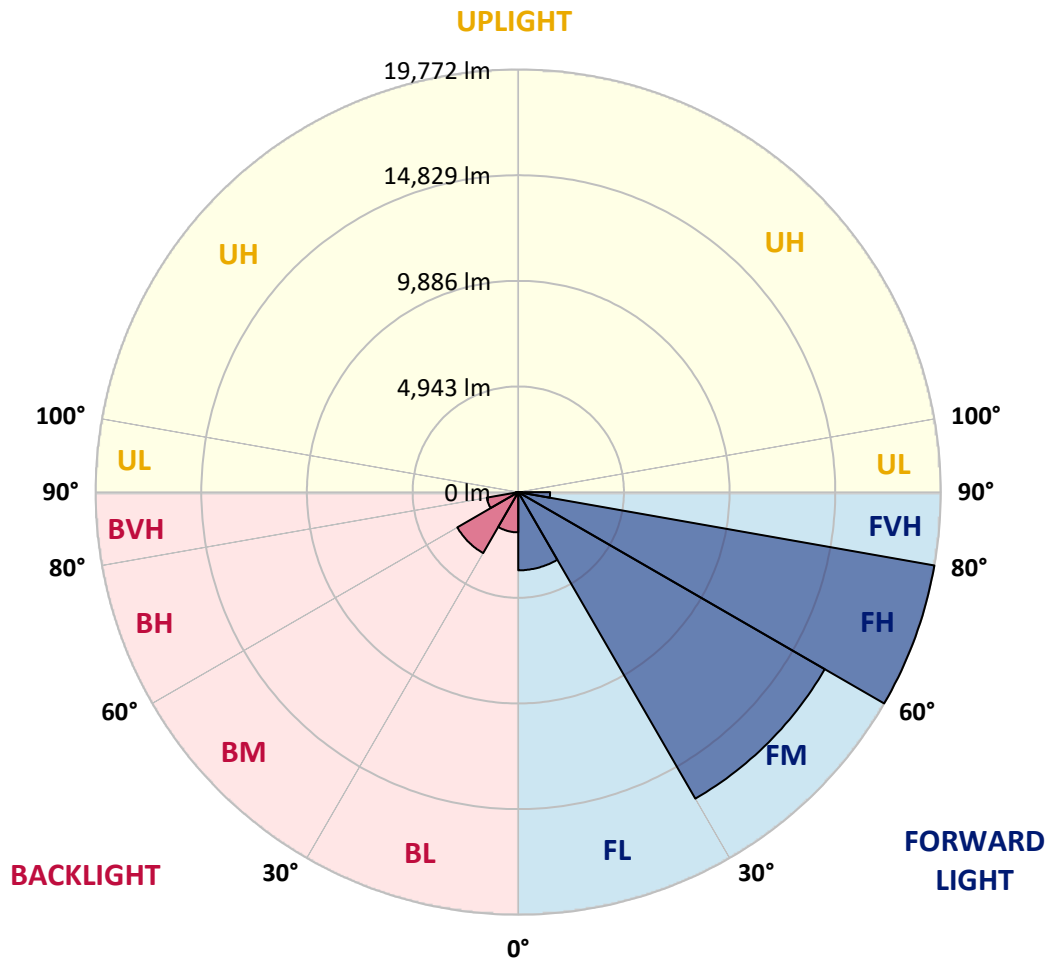
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3657.3	7.6			
FM (30°-60°)	16557.5	34.3			
FH (60°-80°)	19771.6	41.0			G5
FVH (80°-90°)	1492.6	3.1			G5
BL (0°-30°)	1881.5	3.9	B3/2500		
BM (30°-60°)	3292.7	6.8	B3/5000		
BH (60°-80°)	1492.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	118.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2
2.5°	8796.4	8704.6	8720.8	8688.4	8720.8	8710.0	8693.8	8612.8	8693.8	8612.8	8591.2
5°	8677.6	8677.6	8731.6	8650.6	8661.4	8607.4	8661.4	8602.0	8548.0	8413.0	8375.2
7.5°	8639.8	8634.4	8639.8	8526.4	8580.4	8548.0	8494.0	8429.2	8321.2	8234.8	8110.6
10°	8380.6	8434.6	8375.2	8407.6	8450.8	8353.6	8348.2	8332.0	8283.4	8170.0	8094.4
12.5°	8240.2	8332.0	8364.4	8337.4	8375.2	8386.0	8353.6	8332.0	8272.6	8197.0	7981.0
15°	8299.6	8191.6	8283.4	8461.6	8423.8	8450.8	8456.2	8434.6	8407.6	8267.2	8126.8
17.5°	8315.8	8251.0	8445.4	8483.2	8531.8	8629.0	8564.2	8558.8	8456.2	8359.0	8153.8
20°	8353.6	8326.6	8483.2	8683.0	8688.4	8704.6	8737.0	8656.0	8602.0	8434.6	8121.4
22.5°	8494.0	8585.8	8731.6	8818.0	8866.6	8877.4	8877.4	8715.4	8656.0	8521.0	8272.6
25°	8915.2	8818.0	9023.2	9125.8	9055.6	9039.4	9001.6	8855.8	8791.0	8672.2	8342.8
27.5°	9223.0	9217.6	9336.4	9476.8	9287.8	9325.6	9190.6	9147.4	9001.6	8936.8	8467.0
30°	9644.2	9763.0	9757.6	9800.8	9552.4	9595.6	9422.8	9341.8	9260.8	9298.6	8834.2
32.5°	10184.2	10141.0	10211.2	10178.8	9930.4	9968.2	9763.0	9638.8	9665.8	9779.2	9336.4
35°	10529.8	10486.6	10513.6	10513.6	10438.0	10394.8	10308.4	10146.4	10276.0	10486.6	9898.0
37.5°	10902.3	10956.3	11112.9	11080.5	10983.3	10983.3	10972.5	10859.1	11026.5	11544.9	10794.3
40°	11231.7	11377.5	11474.7	11539.5	11652.9	11652.9	11744.7	11679.9	11982.3	12813.9	11890.5
42.5°	11577.3	11582.7	12111.9	12160.5	12414.3	12522.3	12592.5	12646.5	13213.5	14142.3	13062.3
45°	12020.1	12047.1	12511.5	12884.1	13278.3	13316.1	13580.7	13758.9	14455.5	15594.8	14336.7
47.5°	12603.3	12570.9	13067.7	13661.7	14153.1	14412.3	14730.9	14925.2	15783.8	17171.6	15729.8
50°	13370.1	13272.9	13559.1	14493.3	15071.0	15357.2	15924.2	16248.2	17252.6	18678.2	16685.6
52.5°	14304.3	14142.3	14369.1	15389.6	16037.6	16615.4	17155.4	17517.2	18564.8	19844.5	17393.0
55°	15292.4	14957.6	15022.4	16340.0	17274.2	17819.6	18559.4	18937.4	20006.5	20892.1	18100.4
57.5°	16269.8	16059.2	15929.6	17252.6	18748.4	19272.1	19952.5	20443.9	21351.1	21820.9	18699.8
60°	17090.6	17036.6	16826.0	18667.4	20308.9	20757.1	21469.9	21772.3	22458.1	22679.5	18710.6
62.5°	17765.6	17582.0	17916.8	19806.7	21896.5	22404.1	23187.1	23214.1	23700.0	23214.1	18159.8
65°	18294.8	18305.6	18840.2	21183.7	23732.4	24483.0	25114.8	25044.6	24731.4	22895.5	16858.4
67.5°	18775.4	18980.6	19763.5	22695.7	26092.2	26799.6	27501.6	26572.8	25012.2	21405.1	14315.1
70°	19153.3	19358.5	21010.9	24537.0	28873.1	29909.9	30066.5	27177.6	23721.6	18132.8	10799.7
72.5°	19110.2	19482.7	21718.3	26005.8	31340.9	32237.2	30973.7	25476.6	19763.5	12641.1	6301.7
73°	19201.9	19385.5	21658.9	26416.2	32091.4	32539.6	30552.5	24942.0	18640.4	11339.7	5329.7
75°	17430.8	18051.8	20584.3	25746.6	31286.9	31205.9	28133.3	20784.1	13251.3	5956.1	2581.1
77.5°	12894.9	13289.1	16221.2	21172.9	25681.8	25163.4	21221.5	13283.7	6290.9	2208.5	1393.2
80°	6301.7	6609.4	8596.6	12225.3	16793.6	16836.8	13170.3	6911.8	2694.5	1247.4	950.4
82.5°	3148.1	3331.7	4130.9	5372.9	8261.8	8656.0	6679.6	3931.1	1668.6	707.4	540.0
85°	2057.4	2186.9	2543.3	2629.7	3504.5	3698.9	3110.3	3067.1	1085.4	383.4	437.4
87.5°	1366.2	1387.8	1560.6	1328.4	1404.0	1350.0	1501.2	1933.2	318.6	162.0	118.8
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°	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2	8591.2
2.5°	8564.2	8488.6	8407.6	8294.2	8213.2	8089.0	7975.6	7927.0	7916.2	7921.6	7867.6
5°	8342.8	8234.8	8072.8	7840.6	7705.6	7500.4	7327.6	7235.8	7138.6	7154.8	7111.6
7.5°	8035.0	7916.2	7667.8	7397.8	7063.0	6771.4	6609.4	6382.7	6253.1	6155.9	6209.9
10°	7937.8	7732.6	7360.0	6987.4	6469.0	6085.7	5713.1	5453.9	5275.7	5102.9	5178.5
12.5°	7889.2	7684.0	7165.6	6614.8	5945.3	5362.1	4838.3	4519.7	4265.9	4114.7	4174.1
15°	7846.0	7592.2	6982.0	6204.5	5453.9	4687.1	4098.5	3677.3	3434.3	3288.5	3304.7
17.5°	7905.4	7543.6	6712.0	5804.9	4913.9	4093.1	3439.7	3002.3	2753.9	2662.1	2640.5
20°	7846.0	7489.6	6447.4	5405.3	4373.9	3526.1	2899.7	2537.9	2365.1	2289.5	2273.3
22.5°	7867.6	7360.0	6172.1	4962.5	3871.7	3050.9	2537.9	2262.5	2127.6	2089.8	2100.6
25°	7970.2	7284.4	5896.7	4476.5	3374.9	2699.9	2305.7	2095.2	1998.0	1960.2	1971.0
27.5°	8045.8	7349.2	5648.3	4017.5	2953.7	2386.7	2111.4	1971.0	1906.2	1879.2	1873.8
30°	8234.8	7387.0	5405.3	3607.1	2608.1	2181.5	1976.4	1863.0	1819.8	1803.6	1798.2
32.5°	8515.6	7457.2	5124.5	3229.1	2354.3	1987.2	1868.4	1771.2	1760.4	1744.2	1749.6
35°	8974.6	7700.2	4811.3	2905.1	2111.4	1857.6	1755.0	1690.2	1690.2	1690.2	1706.4
37.5°	9633.4	8040.4	4530.5	2597.3	1954.8	1744.2	1657.8	1636.2	1625.4	1641.6	1652.4
40°	10481.2	8450.8	4303.7	2354.3	1819.8	1668.6	1593.0	1582.2	1576.8	1571.4	1582.2
42.5°	11409.9	8974.6	4109.3	2165.3	1722.6	1587.6	1533.6	1522.8	1501.2	1512.0	1528.2
45°	12333.3	9622.6	3936.5	2014.2	1657.8	1544.4	1468.8	1463.4	1452.6	1447.2	1474.2
47.5°	13359.3	10259.8	3882.5	1922.4	1609.2	1479.6	1425.6	1420.2	1387.8	1382.4	1404.0
50°	14158.5	10729.5	3941.9	1879.2	1539.0	1431.0	1393.2	1366.2	1339.2	1312.2	1312.2
52.5°	14709.3	11053.5	3985.1	1846.8	1501.2	1366.2	1317.6	1306.8	1279.8	1252.8	1242.0
55°	15206.0	11247.9	3995.9	1852.2	1463.4	1290.6	1258.2	1252.8	1236.6	1193.4	1182.6
57.5°	15373.4	11166.9	3779.9	1803.6	1441.8	1242.0	1198.8	1209.6	1188.0	1150.2	1144.8
60°	15357.2	10605.4	3288.5	1738.8	1393.2	1188.0	1134.0	1166.4	1166.4	1123.2	1117.8
62.5°	14423.1	9309.4	2689.1	1614.6	1339.2	1134.0	1074.6	1123.2	1139.4	1112.4	1107.0
65°	12484.5	7581.4	2246.3	1490.4	1258.2	1074.6	1015.2	1069.2	1096.2	1085.4	1080.0
67.5°	10330.0	5799.5	1868.4	1328.4	1155.6	993.6	945.0	982.8	999.0	1004.4	1009.8
70°	7300.6	3860.9	1560.6	1150.2	1015.2	907.2	853.2	858.6	853.2	869.4	869.4
72.5°	3968.9	2224.7	1269.0	977.4	874.8	788.4	750.6	723.6	723.6	718.2	718.2
73°	3396.5	1998.0	1209.6	950.4	837.0	766.8	723.6	702.0	702.0	696.6	691.2
75°	1906.2	1463.4	1036.8	815.4	723.6	669.6	637.2	604.8	599.4	599.4	599.4
77.5°	1252.8	1139.4	826.2	653.4	583.2	534.6	523.8	491.4	491.4	491.4	486.0
80°	939.6	896.4	637.2	496.8	448.2	410.4	399.6	378.0	372.6	351.0	356.4
82.5°	626.4	707.4	464.4	351.0	302.4	280.8	280.8	275.4	259.2	232.2	232.2
85°	496.8	577.8	334.8	216.0	178.2	151.2	156.6	151.2	145.8	118.8	113.4
87.5°	91.8	232.2	97.2	59.4	43.2	27.0	27.0	16.2	10.8	0.0	0.0
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)