

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: P480957

Luminaire Tested: **IFLD-L-SA8C-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480957
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

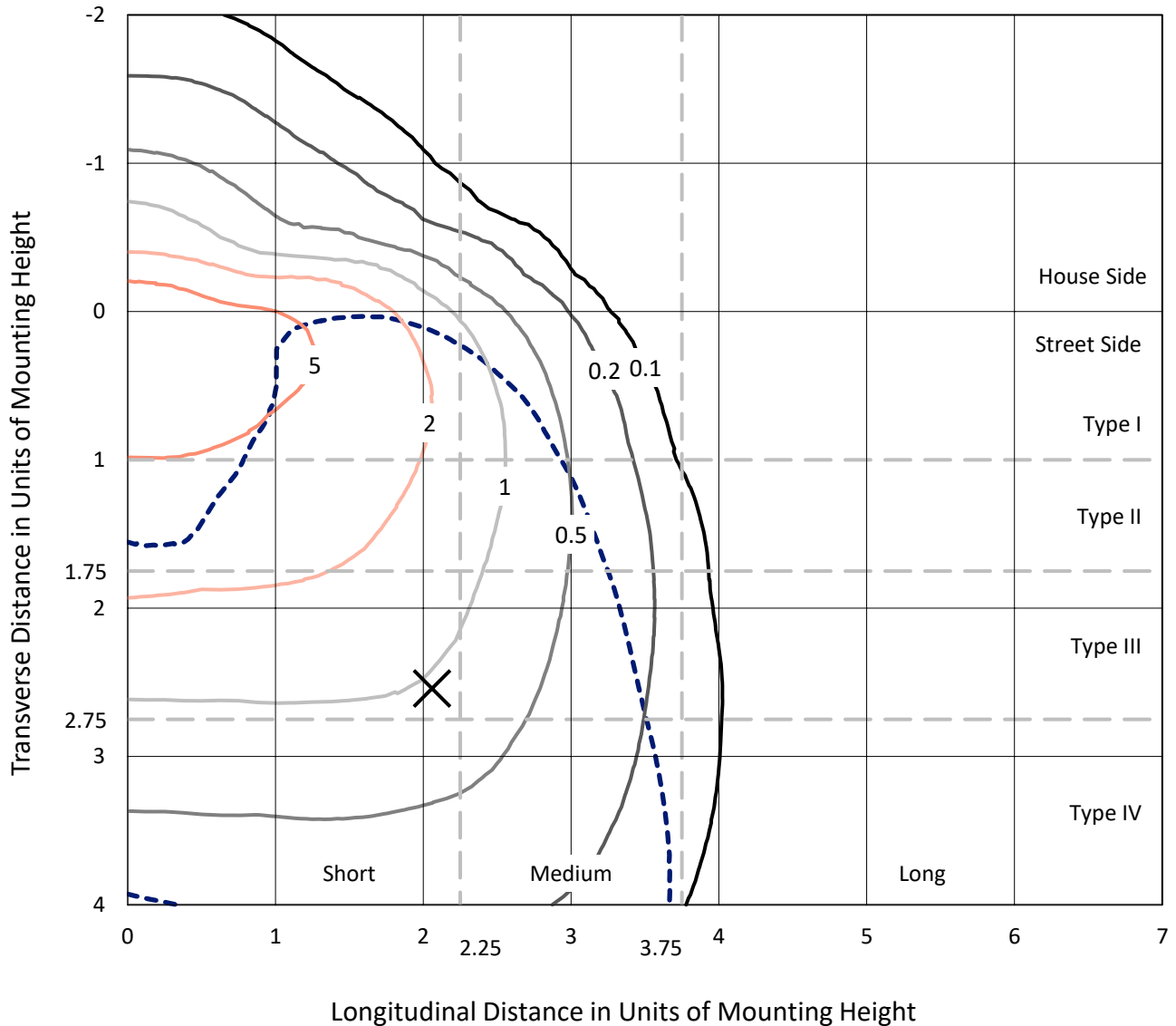
Lumens per Lamp: N/A
Luminaire Lumens: 50128.5 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

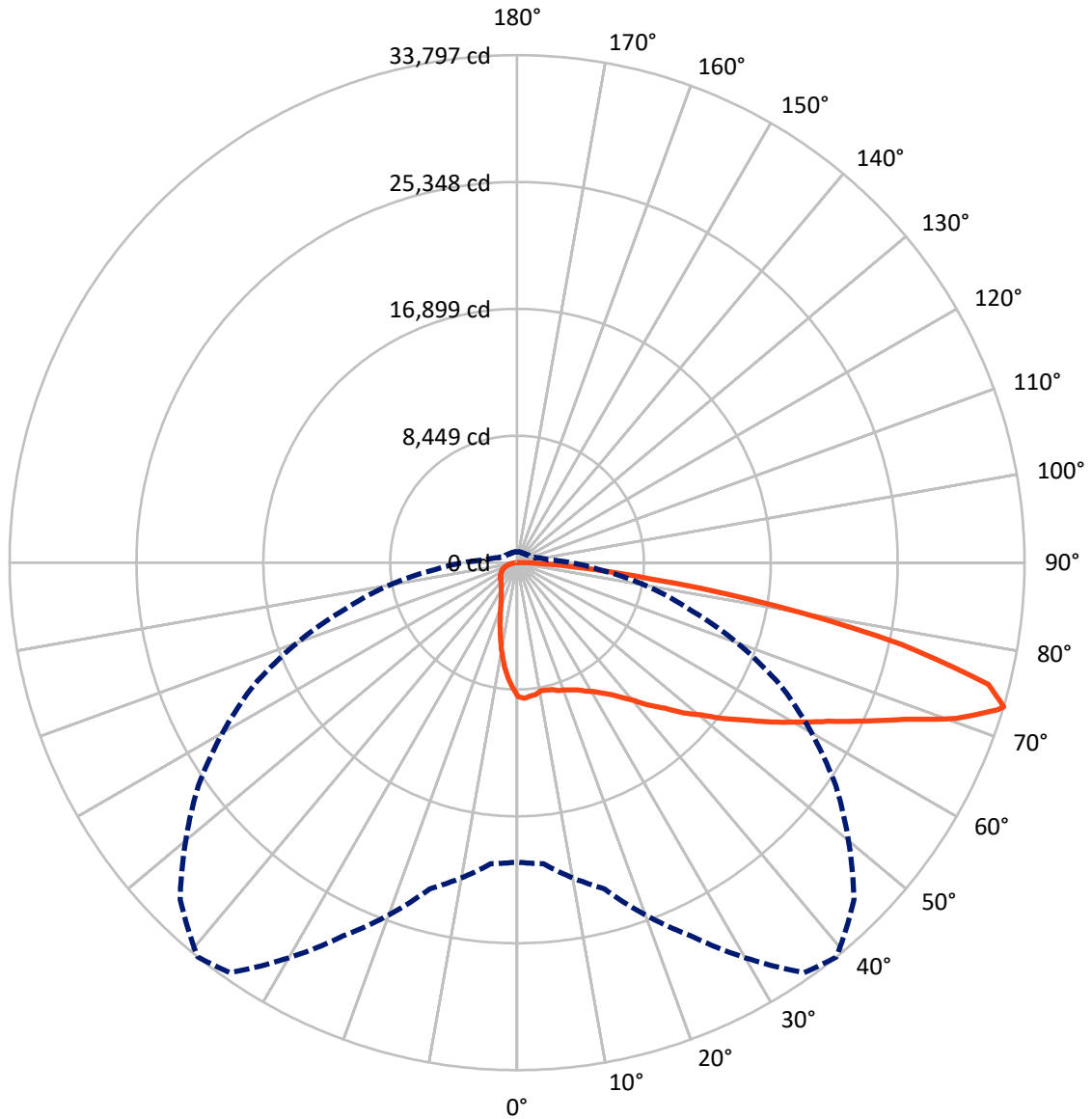
× Max cd
- - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	7046.7	0.0	7046.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	43081.8	0.0	43081.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	50128.5	0.0	50128.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.6	1.5
10°-20°	1969.1	3.9
20°-30°	3009.1	6.0
30°-40°	4387.3	8.8
40°-50°	6629.7	13.2
50°-60°	9600.2	19.2
60°-70°	12197.5	24.3
70°-80°	9888.0	19.7
80°-90°	1673.0	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°	50128.5	100.0
0°-180°	50128.5	100.0



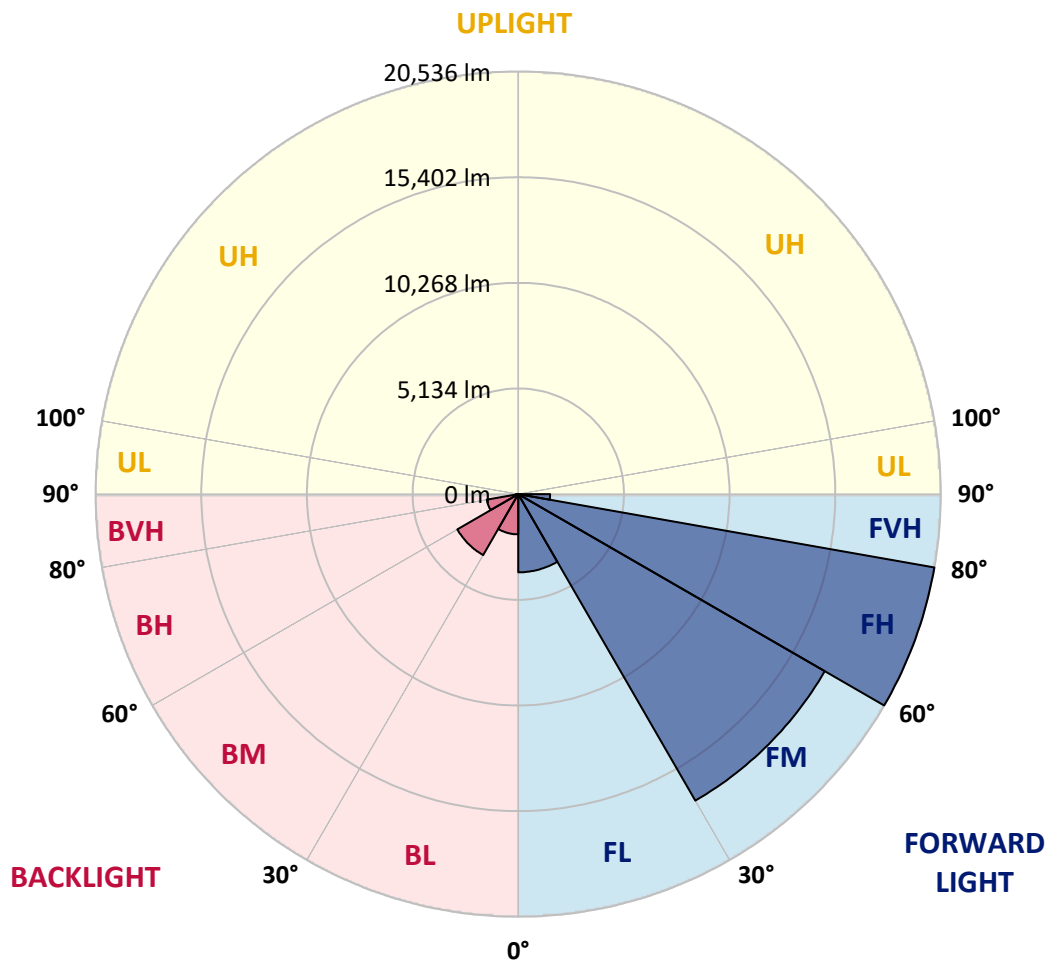
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3798.6	7.6			
FM (30°-60°)	17197.3	34.3			
FH (60°-80°)	20535.6	41.0			G5
FVH (80°-90°)	1550.3	3.1			G5
BL (0°-30°)	1954.2	3.9	B3/2500		
BM (30°-60°)	3419.9	6.8	B3/5000		
BH (60°-80°)	1549.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	122.7	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°	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2
2.5°	9136.3	9041.0	9057.8	9024.1	9057.8	9046.6	9029.7	8945.6	9029.7	8945.6	8923.2
5°	9012.9	9012.9	9069.0	8984.9	8996.1	8940.0	8996.1	8934.4	8878.3	8738.1	8698.8
7.5°	8973.7	8968.0	8973.7	8855.9	8912.0	8878.3	8822.2	8754.9	8642.7	8553.0	8424.0
10°	8704.4	8760.5	8698.8	8732.5	8777.4	8676.4	8670.8	8654.0	8603.5	8485.7	8407.2
12.5°	8558.6	8654.0	8687.6	8659.6	8698.8	8710.1	8676.4	8654.0	8592.3	8513.8	8289.4
15°	8620.3	8508.1	8603.5	8788.6	8749.3	8777.4	8783.0	8760.5	8732.5	8586.7	8440.8
17.5°	8637.1	8569.8	8771.7	8811.0	8861.5	8962.4	8895.1	8889.5	8783.0	8682.0	8468.9
20°	8676.4	8648.4	8811.0	9018.5	9024.1	9041.0	9074.6	8990.5	8934.4	8760.5	8435.2
22.5°	8822.2	8917.6	9069.0	9158.7	9209.2	9220.4	9220.4	9052.2	8990.5	8850.3	8592.3
25°	9259.7	9158.7	9371.9	9478.4	9405.5	9388.7	9349.4	9198.0	9130.7	9007.3	8665.2
27.5°	9579.4	9573.8	9697.2	9843.0	9646.7	9685.9	9545.7	9500.9	9349.4	9282.1	8794.2
30°	10016.8	10140.2	10134.6	10179.5	9921.5	9966.4	9786.9	9702.8	9618.6	9657.9	9175.6
32.5°	10577.7	10532.8	10605.7	10572.1	10314.1	10353.4	10140.2	10011.2	10039.3	10157.1	9697.2
35°	10936.6	10891.8	10919.8	10919.8	10841.3	10796.4	10706.7	10538.4	10673.0	10891.8	10280.4
37.5°	11323.6	11379.7	11542.4	11508.7	11407.8	11407.8	11396.5	11278.8	11452.6	11991.0	11211.5
40°	11665.7	11817.2	11918.1	11985.4	12103.2	12103.2	12198.6	12131.3	12445.3	13309.0	12350.0
42.5°	12024.7	12030.3	12579.9	12630.4	12894.0	13006.2	13079.1	13135.2	13724.1	14688.7	13567.0
45°	12484.6	12512.6	12995.0	13382.0	13791.4	13830.6	14105.5	14290.5	15014.0	16197.4	14890.7
47.5°	13090.3	13056.7	13572.7	14189.6	14700.0	14969.2	15300.1	15502.0	16393.7	17835.1	16337.7
50°	13886.7	13785.8	14083.0	15053.3	15653.4	15950.7	16539.6	16876.1	17919.3	19399.9	17330.4
52.5°	14857.0	14688.7	14924.3	15984.3	16657.3	17257.5	17818.3	18194.1	19282.1	20611.4	18065.1
55°	15883.4	15535.6	15602.9	16971.4	17941.7	18508.2	19276.5	19669.1	20779.6	21699.4	18799.8
57.5°	16898.5	16679.8	16545.2	17919.3	19472.8	20016.9	20723.5	21233.9	22176.1	22664.1	19422.4
60°	17751.0	17694.9	17476.2	19388.7	21093.7	21559.2	22299.5	22613.6	23325.9	23555.8	19433.6
62.5°	18452.1	18261.4	18609.1	20572.1	22742.6	23269.8	24083.0	24111.1	24615.9	24111.1	18861.5
65°	19001.7	19012.9	19568.2	22002.3	24649.5	25429.1	26085.3	26012.4	25687.1	23780.2	17509.8
67.5°	19500.9	19714.0	20527.2	23572.7	27100.4	27835.1	28564.3	27599.6	25978.7	22232.2	14868.2
70°	19893.5	20106.6	21822.8	25485.2	29988.8	31065.7	31228.3	28227.7	24638.3	18833.5	11217.1
72.5°	19848.6	20235.6	22557.5	27010.7	32551.9	33482.9	32170.5	26461.1	20527.2	13129.6	6545.2
73°	19943.9	20134.6	22495.8	27436.9	33331.5	33797.0	31733.1	25905.8	19360.7	11777.9	5535.6
75°	18104.3	18749.3	21379.7	26741.5	32495.8	32411.7	29220.5	21587.2	13763.3	6186.2	2680.9
77.5°	13393.2	13802.6	16848.0	21991.1	26674.2	26135.8	22041.5	13797.0	6533.9	2293.9	1447.0
80°	6545.2	6864.8	8928.8	12697.7	17442.5	17487.4	13679.2	7178.9	2798.7	1295.6	987.1
82.5°	3269.8	3460.5	4290.5	5580.5	8581.1	8990.5	6937.8	4083.0	1733.0	734.7	560.9
85°	2136.9	2271.5	2641.6	2731.4	3639.9	3841.8	3230.5	3185.6	1127.3	398.2	454.3
87.5°	1419.0	1441.4	1620.9	1379.7	1458.2	1402.1	1559.2	2007.9	330.9	168.3	123.4
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°	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2	8923.2
2.5°	8895.1	8816.6	8732.5	8614.7	8530.6	8401.6	8283.8	8233.3	8222.1	8227.7	8171.6
5°	8665.2	8553.0	8384.8	8143.6	8003.4	7790.3	7610.8	7515.4	7414.5	7431.3	7386.4
7.5°	8345.5	8222.1	7964.1	7683.7	7336.0	7033.1	6864.8	6629.3	6494.7	6393.7	6449.8
10°	8244.5	8031.4	7644.4	7257.4	6719.0	6320.8	5933.8	5664.6	5479.5	5300.1	5378.6
12.5°	8194.1	7980.9	7442.5	6870.5	6175.0	5569.3	5025.2	4694.3	4430.7	4273.7	4335.4
15°	8149.2	7885.6	7251.8	6444.2	5664.6	4868.2	4256.9	3819.4	3567.0	3415.6	3432.4
17.5°	8210.9	7835.1	6971.4	6029.2	5103.8	4251.3	3572.6	3118.3	2860.4	2765.0	2742.6
20°	8149.2	7779.0	6696.6	5614.1	4542.9	3662.4	3011.8	2636.0	2456.5	2378.0	2361.2
22.5°	8171.6	7644.4	6410.6	5154.2	4021.3	3168.8	2636.0	2350.0	2209.8	2170.5	2181.7
25°	8278.2	7565.9	6124.5	4649.5	3505.3	2804.3	2394.8	2176.1	2075.2	2035.9	2047.1
27.5°	8356.7	7633.2	5866.5	4172.7	3067.9	2479.0	2192.9	2047.1	1979.8	1951.8	1946.2
30°	8553.0	7672.5	5614.1	3746.5	2708.9	2265.8	2052.7	1934.9	1890.1	1873.3	1867.6
32.5°	8844.7	7745.4	5322.5	3353.9	2445.3	2063.9	1940.6	1839.6	1828.4	1811.6	1817.2
35°	9321.4	7997.8	4997.2	3017.4	2192.9	1929.3	1822.8	1755.5	1755.5	1755.5	1772.3
37.5°	10005.6	8351.1	4705.6	2697.7	2030.3	1811.6	1721.8	1699.4	1688.2	1705.0	1716.2
40°	10886.2	8777.4	4470.0	2445.3	1890.1	1733.0	1654.5	1643.3	1637.7	1632.1	1643.3
42.5°	11850.8	9321.4	4268.1	2249.0	1789.1	1648.9	1592.8	1581.6	1559.2	1570.4	1587.2
45°	12809.9	9994.4	4088.6	2092.0	1721.8	1604.0	1525.5	1519.9	1508.7	1503.1	1531.1
47.5°	13875.5	10656.2	4032.5	1996.6	1671.3	1536.7	1480.7	1475.0	1441.4	1435.8	1458.2
50°	14705.6	11144.2	4094.2	1951.8	1598.4	1486.3	1447.0	1419.0	1390.9	1362.9	1362.9
52.5°	15277.6	11480.7	4139.1	1918.1	1559.2	1419.0	1368.5	1357.3	1329.2	1301.2	1290.0
55°	15793.6	11682.6	4150.3	1923.7	1519.9	1340.4	1306.8	1301.2	1284.4	1239.5	1228.3
57.5°	15967.5	11598.4	3926.0	1873.3	1497.5	1290.0	1245.1	1256.3	1233.9	1194.6	1189.0
60°	15950.7	11015.2	3415.6	1805.9	1447.0	1233.9	1177.8	1211.4	1211.4	1166.6	1161.0
62.5°	14980.4	9669.1	2793.0	1677.0	1390.9	1177.8	1116.1	1166.6	1183.4	1155.4	1149.7
65°	12966.9	7874.4	2333.1	1548.0	1306.8	1116.1	1054.4	1110.5	1138.5	1127.3	1121.7
67.5°	10729.1	6023.6	1940.6	1379.7	1200.2	1032.0	981.5	1020.8	1037.6	1043.2	1048.8
70°	7582.7	4010.1	1620.9	1194.6	1054.4	942.2	886.1	891.8	886.1	903.0	903.0
72.5°	4122.3	2310.7	1318.0	1015.1	908.6	818.8	779.6	751.5	751.5	745.9	745.9
73°	3527.8	2075.2	1256.3	987.1	869.3	796.4	751.5	729.1	729.1	723.5	717.9
75°	1979.8	1519.9	1076.8	846.9	751.5	695.5	661.8	628.2	622.5	622.5	622.5
77.5°	1301.2	1183.4	858.1	678.6	605.7	555.2	544.0	510.4	510.4	510.4	504.8
80°	975.9	931.0	661.8	516.0	465.5	426.2	415.0	392.6	387.0	364.6	370.2
82.5°	650.6	734.7	482.3	364.6	314.1	291.6	291.6	286.0	269.2	241.2	241.2
85°	516.0	600.1	347.7	224.3	185.1	157.0	162.6	157.0	151.4	123.4	117.8
87.5°	95.3	241.2	101.0	61.7	44.9	28.0	28.0	16.8	11.2	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)