

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: P480802

Luminaire Tested: **IFLD-L-SA8D-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

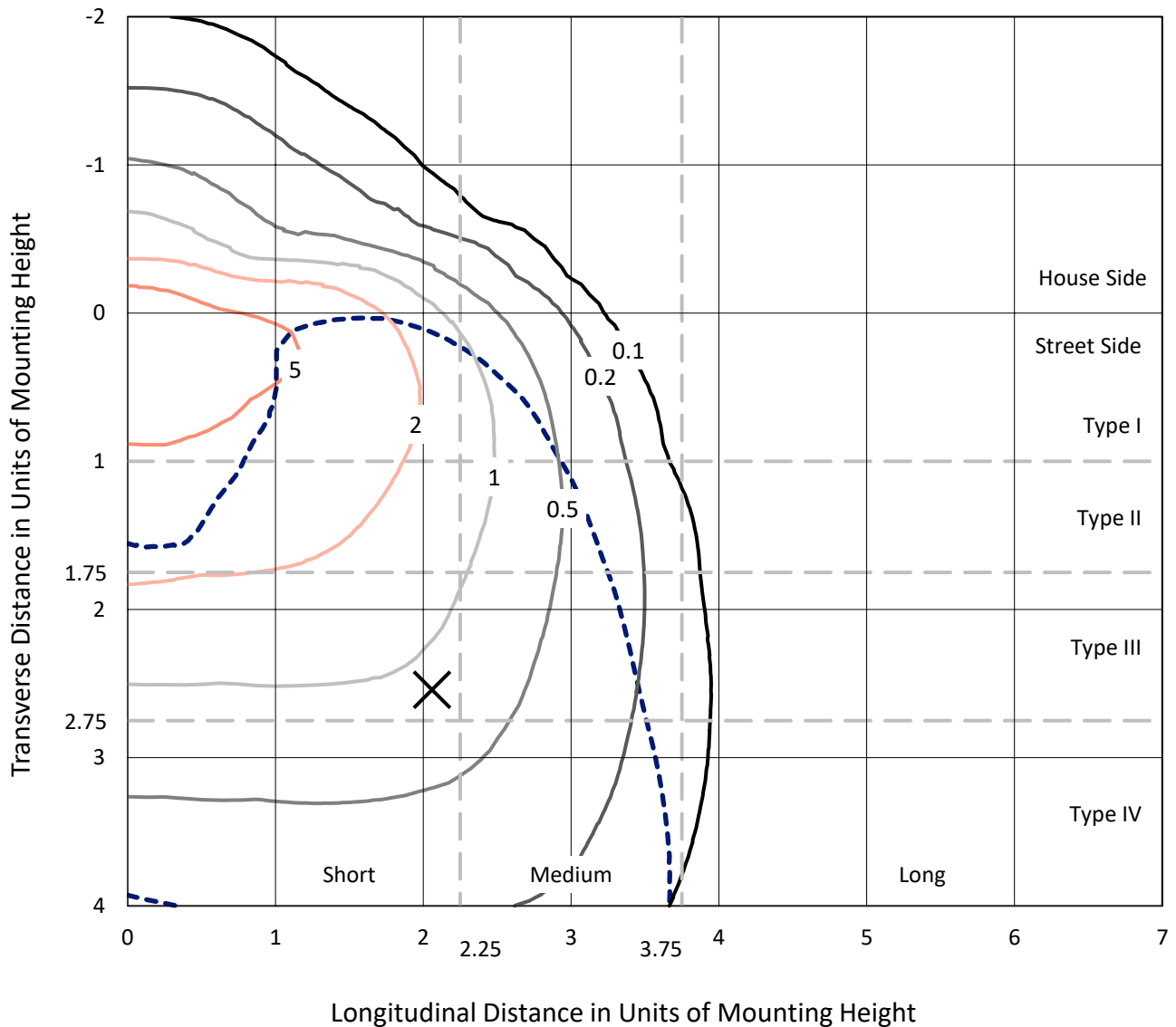
Lumens per Lamp: N/A
Luminaire Lumens: 45096.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

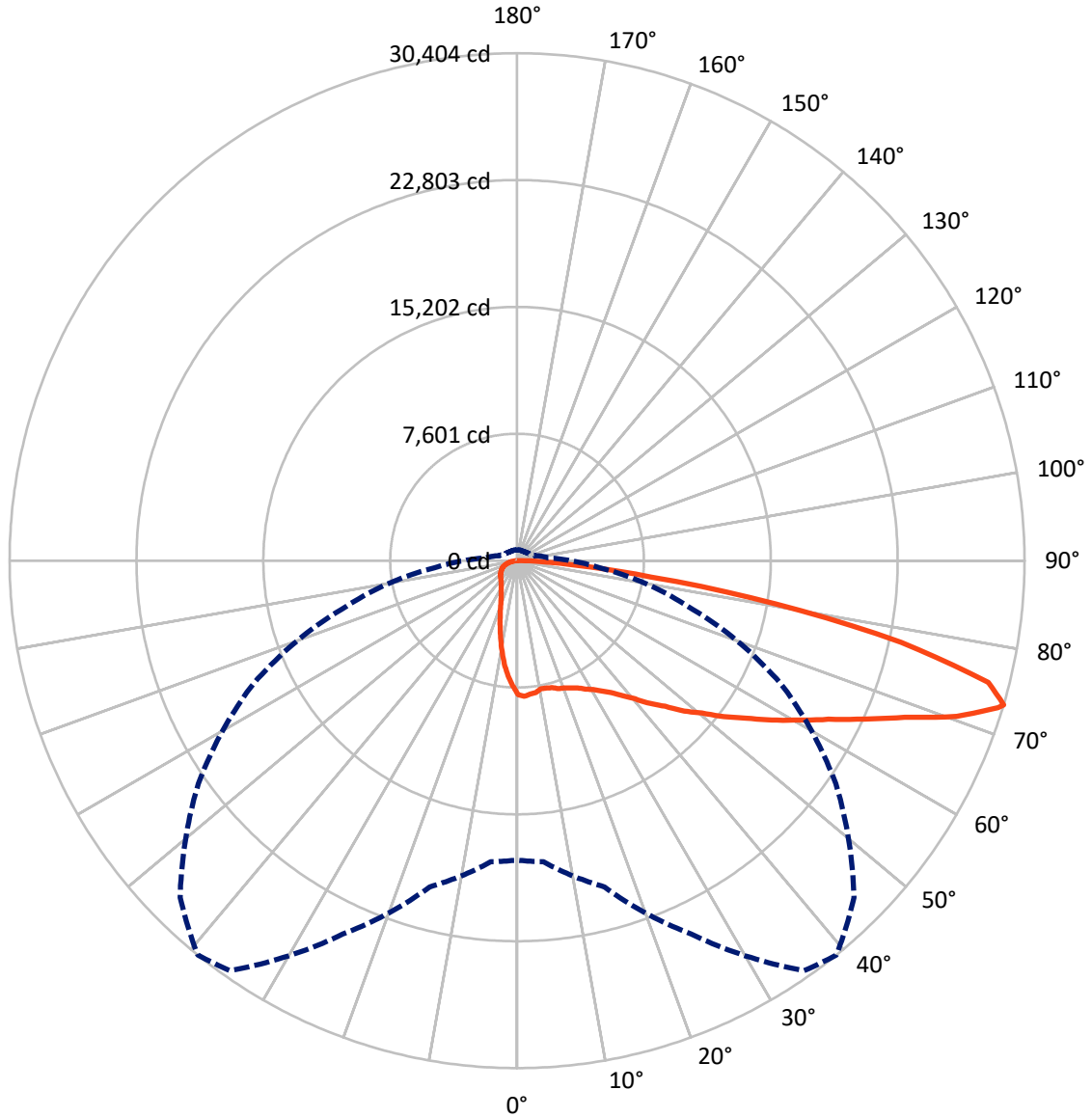
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 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	6339.3	0.0	6339.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	38757.0	0.0	38757.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	45096.3	0.0	45096.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.8	1.5
10°-20°	1771.5	3.9
20°-30°	2707.0	6.0
30°-40°	3946.9	8.8
40°-50°	5964.2	13.2
50°-60°	8636.5	19.2
60°-70°	10973.0	24.3
70°-80°	8895.3	19.7
80°-90°	1505.0	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°	45096.3	100.0
0°-180°	45096.3	100.0

Coefficient of Utilization



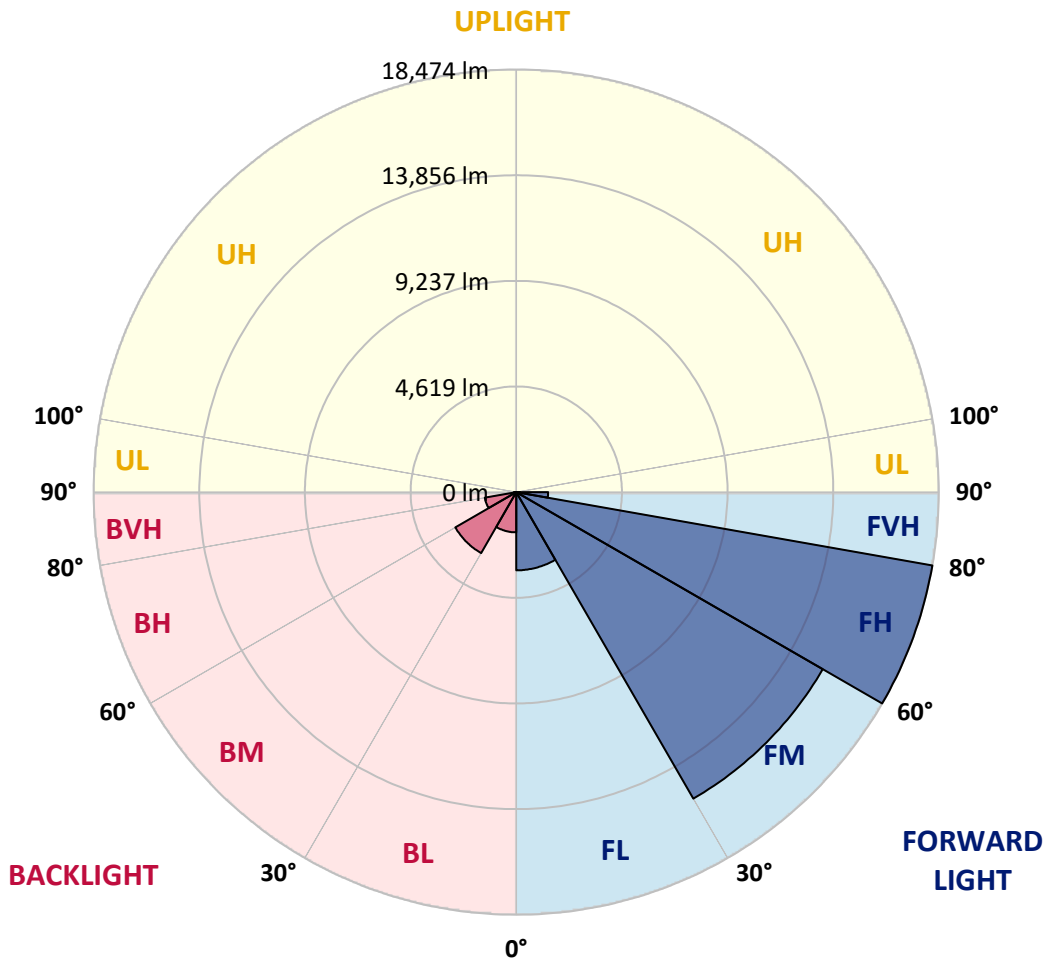
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3417.3	7.6			
FM (30°-60°)	15470.9	34.3			
FH (60°-80°)	18474.2	41.0			G5
FVH (80°-90°)	1394.6	3.1			G5
BL (0°-30°)	1758.0	3.9	B3/2500		
BM (30°-60°)	3076.6	6.8	B3/5000		
BH (60°-80°)	1394.2	3.1	B3/2500		G3/2500
BVH (80°-90°)	110.4	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°	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4
2.5°	8219.1	8133.4	8148.5	8118.2	8148.5	8138.4	8123.3	8047.6	8123.3	8047.6	8027.4
5°	8108.1	8108.1	8158.6	8082.9	8093.0	8042.6	8093.0	8037.5	7987.1	7860.9	7825.6
7.5°	8072.8	8067.8	8072.8	7966.9	8017.3	7987.1	7936.6	7876.0	7775.1	7694.4	7578.4
10°	7830.6	7881.1	7825.6	7855.9	7896.2	7805.4	7800.4	7785.2	7739.8	7633.9	7563.2
12.5°	7699.5	7785.2	7815.5	7790.3	7825.6	7835.7	7805.4	7785.2	7729.7	7659.1	7457.3
15°	7755.0	7654.0	7739.8	7906.3	7871.0	7896.2	7901.3	7881.1	7855.9	7724.7	7593.5
17.5°	7770.1	7709.5	7891.2	7926.5	7971.9	8062.7	8002.2	7997.1	7901.3	7810.5	7618.7
20°	7805.4	7780.2	7926.5	8113.2	8118.2	8133.4	8163.6	8088.0	8037.5	7881.1	7588.5
22.5°	7936.6	8022.4	8158.6	8239.3	8284.7	8294.8	8294.8	8143.5	8088.0	7961.8	7729.7
25°	8330.1	8239.3	8431.1	8526.9	8461.3	8446.2	8410.9	8274.6	8214.1	8103.1	7795.3
27.5°	8617.7	8612.7	8723.7	8854.9	8678.3	8713.6	8587.5	8547.1	8410.9	8350.3	7911.4
30°	9011.3	9122.3	9117.2	9157.6	8925.5	8965.9	8804.4	8728.7	8653.1	8688.4	8254.5
32.5°	9515.8	9475.5	9541.1	9510.8	9278.7	9314.0	9122.3	9006.2	9031.5	9137.4	8723.7
35°	9838.8	9798.4	9823.6	9823.6	9753.0	9712.6	9631.9	9480.5	9601.6	9798.4	9248.4
37.5°	10186.9	10237.4	10383.7	10353.4	10262.6	10262.6	10252.5	10146.5	10302.9	10787.3	10086.0
40°	10494.7	10630.9	10721.7	10782.3	10888.2	10888.2	10974.0	10913.4	11196.0	11973.0	11110.2
42.5°	10817.6	10822.6	11317.1	11362.5	11599.6	11700.5	11766.1	11816.6	12346.4	13214.2	12205.1
45°	11231.3	11256.5	11690.5	12038.6	12406.9	12442.2	12689.5	12856.0	13506.8	14571.4	13395.8
47.5°	11776.2	11746.0	12210.1	12765.2	13224.3	13466.5	13764.2	13945.8	14748.0	16044.7	14697.6
50°	12492.7	12401.9	12669.3	13542.2	14082.0	14349.4	14879.2	15182.0	16120.4	17452.4	15590.6
52.5°	13365.6	13214.2	13426.1	14379.7	14985.2	15525.0	16029.6	16367.7	17346.5	18542.3	16251.6
55°	14288.9	13976.1	14036.6	15267.7	16140.6	16650.2	17341.4	17694.6	18693.6	19521.1	16912.6
57.5°	15202.1	15005.4	14884.3	16120.4	17518.0	18007.4	18643.2	19102.3	19950.0	20388.9	17472.6
60°	15969.1	15918.6	15721.8	17442.3	18976.2	19395.0	20061.0	20343.5	20984.3	21191.2	17482.7
62.5°	16599.7	16428.2	16741.0	18506.9	20459.6	20933.8	21665.4	21690.7	22144.8	21690.7	16968.1
65°	17094.2	17104.3	17603.8	19793.6	22175.0	22876.4	23466.7	23401.1	23108.5	21393.0	15752.1
67.5°	17543.3	17735.0	18466.6	21206.3	24379.9	25040.9	25696.8	24829.0	23370.8	20000.4	13375.7
70°	17896.4	18088.2	19632.1	22926.8	26978.4	27947.1	28093.4	25394.1	22164.9	16942.8	10091.0
72.5°	17856.1	18204.2	20293.1	24299.2	29284.2	30121.7	28941.1	23804.7	18466.6	11811.6	5888.1
73°	17941.9	18113.4	20237.6	24682.7	29985.5	30404.3	28547.5	23305.2	17417.1	10595.6	4979.9
75°	16286.9	16867.2	19233.5	24057.0	29233.7	29158.0	26287.1	19420.2	12381.7	5565.2	2411.8
77.5°	12048.7	12417.0	15156.7	19783.5	23996.5	23512.1	19828.9	12412.0	5878.0	2063.6	1301.7
80°	5888.1	6175.7	8032.5	11423.0	15691.6	15731.9	12306.0	6458.3	2517.7	1165.5	888.0
82.5°	2941.5	3113.1	3859.8	5020.3	7719.6	8088.0	6241.3	3673.1	1559.1	661.0	504.6
85°	1922.3	2043.4	2376.4	2457.2	3274.5	3456.2	2906.2	2865.9	1014.1	358.2	408.7
87.5°	1276.5	1296.7	1458.2	1241.2	1311.8	1261.4	1402.7	1806.3	297.7	151.4	111.0
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°	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4	8027.4
2.5°	8002.2	7931.5	7855.9	7749.9	7674.2	7558.2	7452.2	7406.8	7396.7	7401.8	7351.3
5°	7795.3	7694.4	7543.0	7326.1	7199.9	7008.2	6846.8	6761.0	6670.2	6685.3	6644.9
7.5°	7507.7	7396.7	7164.6	6912.4	6599.5	6327.1	6175.7	5963.8	5842.7	5751.9	5802.3
10°	7416.9	7225.2	6877.0	6528.9	6044.5	5686.3	5338.2	5096.0	4929.5	4768.0	4838.6
12.5°	7371.5	7179.8	6695.4	6180.8	5555.1	5010.2	4520.8	4223.1	3986.0	3844.7	3900.2
15°	7331.1	7094.0	6523.9	5797.3	5096.0	4379.5	3829.5	3436.0	3208.9	3072.7	3087.9
17.5°	7386.6	7048.6	6271.6	5423.9	4591.4	3824.5	3214.0	2805.3	2573.2	2487.4	2467.3
20°	7331.1	6998.1	6024.3	5050.6	4086.9	3294.7	2709.4	2371.4	2209.9	2139.3	2124.2
22.5°	7351.3	6877.0	5767.0	4636.8	3617.6	2850.7	2371.4	2114.1	1987.9	1952.6	1962.7
25°	7447.2	6806.4	5509.7	4182.7	3153.4	2522.8	2154.4	1957.7	1866.8	1831.5	1841.6
27.5°	7517.8	6866.9	5277.6	3753.9	2759.9	2230.1	1972.8	1841.6	1781.1	1755.8	1750.8
30°	7694.4	6902.3	5050.6	3370.4	2437.0	2038.4	1846.7	1740.7	1700.3	1685.2	1680.2
32.5°	7956.8	6967.9	4788.2	3017.2	2199.8	1856.7	1745.7	1654.9	1644.8	1629.7	1634.7
35°	8385.6	7194.9	4495.6	2714.5	1972.8	1735.7	1639.8	1579.2	1579.2	1579.2	1594.4
37.5°	9001.2	7512.8	4233.2	2426.9	1826.5	1629.7	1549.0	1528.8	1518.7	1533.8	1543.9
40°	9793.3	7896.2	4021.3	2199.8	1700.3	1559.1	1488.4	1478.3	1473.3	1468.2	1478.3
42.5°	10661.2	8385.6	3839.6	2023.3	1609.5	1483.4	1432.9	1422.8	1402.7	1412.7	1427.9
45°	11524.0	8991.1	3678.2	1882.0	1549.0	1443.0	1372.4	1367.3	1357.2	1352.2	1377.4
47.5°	12482.6	9586.5	3627.7	1796.2	1503.6	1382.5	1332.0	1327.0	1296.7	1291.7	1311.8
50°	13229.3	10025.4	3683.2	1755.8	1438.0	1337.1	1301.7	1276.5	1251.3	1226.1	1226.1
52.5°	13744.0	10328.2	3723.6	1725.6	1402.7	1276.5	1231.1	1221.0	1195.8	1170.6	1160.5
55°	14208.2	10509.8	3733.7	1730.6	1367.3	1205.9	1175.6	1170.6	1155.4	1115.1	1105.0
57.5°	14364.6	10434.1	3531.9	1685.2	1347.2	1160.5	1120.1	1130.2	1110.0	1074.7	1069.6
60°	14349.4	9909.4	3072.7	1624.7	1301.7	1110.0	1059.6	1089.8	1089.8	1049.5	1044.4
62.5°	13476.6	8698.5	2512.7	1508.6	1251.3	1059.6	1004.1	1049.5	1064.6	1039.4	1034.3
65°	11665.2	7083.9	2098.9	1392.6	1175.6	1004.1	948.6	999.0	1024.2	1014.1	1009.1
67.5°	9652.1	5418.9	1745.7	1241.2	1079.7	928.4	883.0	918.3	933.4	938.5	943.5
70°	6821.5	3607.5	1458.2	1074.7	948.6	847.6	797.2	802.2	797.2	812.3	812.3
72.5°	3708.5	2078.8	1185.7	913.2	817.4	736.6	701.3	676.1	676.1	671.1	671.1
73°	3173.6	1866.8	1130.2	888.0	782.1	716.5	676.1	655.9	655.9	650.9	645.8
75°	1781.1	1367.3	968.7	761.9	676.1	625.6	595.4	565.1	560.1	560.1	560.1
77.5°	1170.6	1064.6	772.0	610.5	544.9	499.5	489.4	459.1	459.1	459.1	454.1
80°	877.9	837.6	595.4	464.2	418.8	383.5	373.4	353.2	348.1	328.0	333.0
82.5°	585.3	661.0	433.9	328.0	282.5	262.4	262.4	257.3	242.2	217.0	217.0
85°	464.2	539.9	312.8	201.8	166.5	141.3	146.3	141.3	136.2	111.0	106.0
87.5°	85.8	217.0	90.8	55.5	40.4	25.2	25.2	15.1	10.1	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)