

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: P480798

Luminaire Tested: **IFLD-L-SA7E-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480798
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

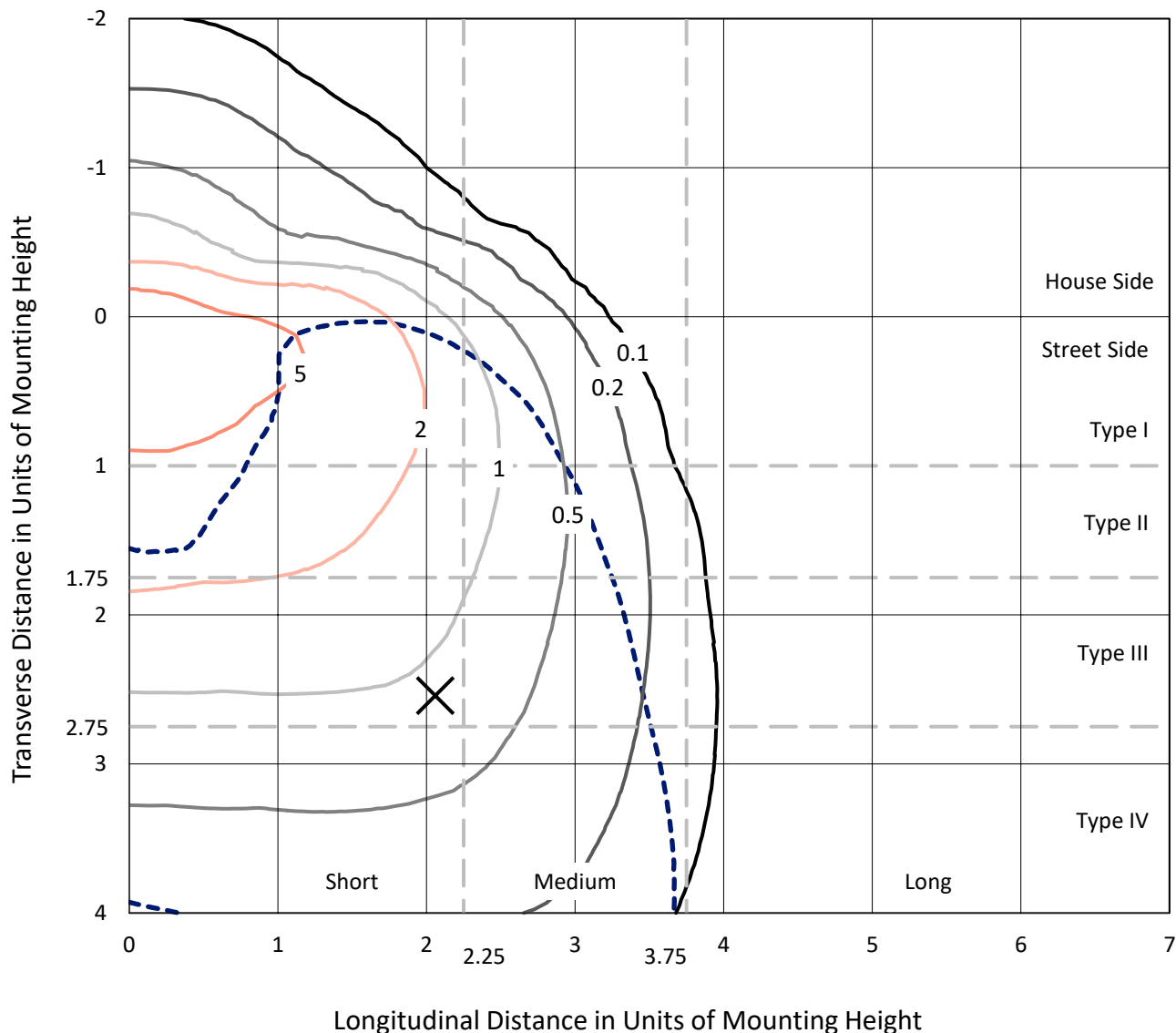
Lumens per Lamp: N/A
Luminaire Lumens: 45665.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

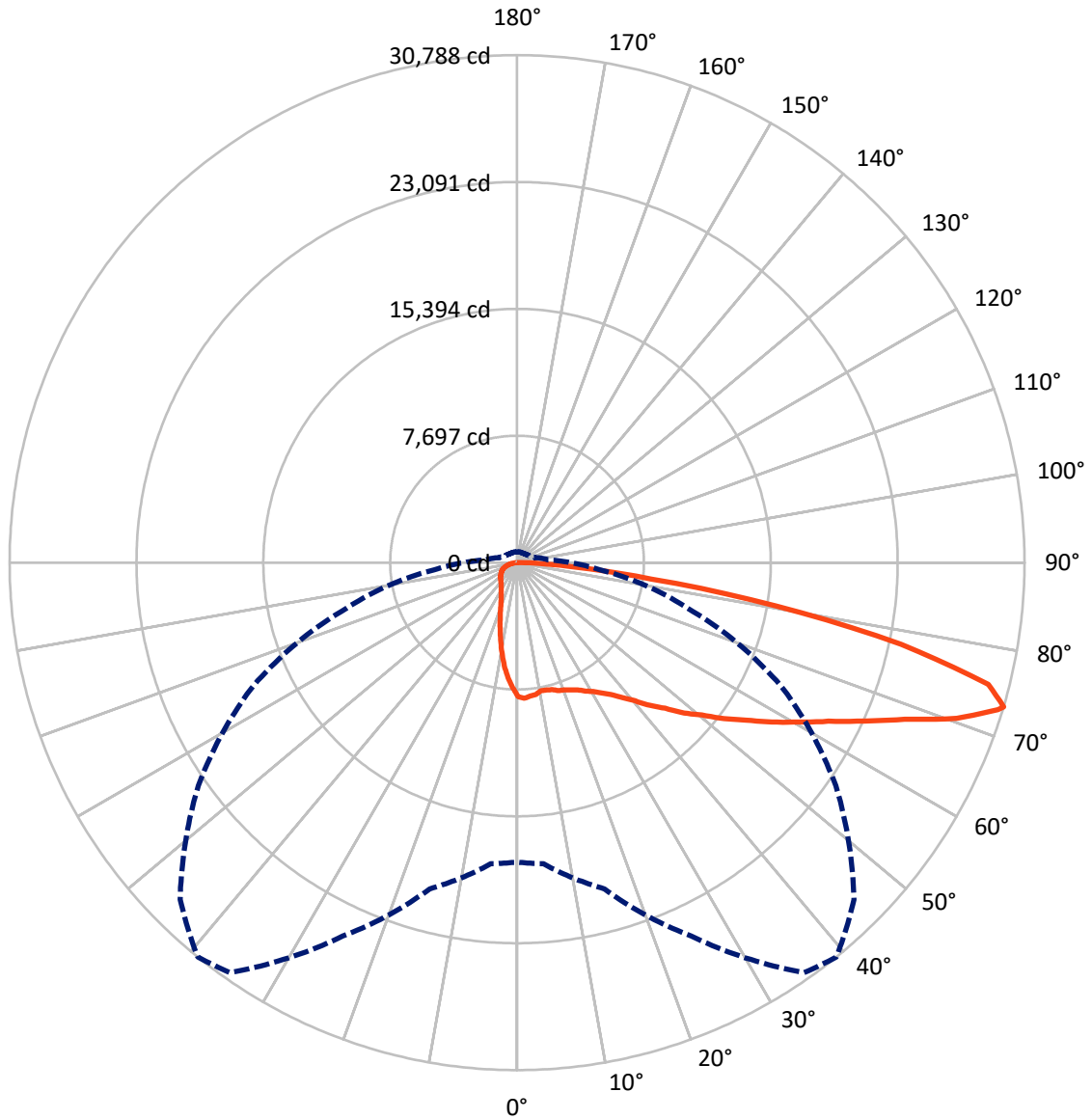
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	6419.3	0.0	6419.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	39246.3	0.0	39246.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	45665.6	0.0	45665.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.6	1.5
10°-20°	1793.8	3.9
20°-30°	2741.2	6.0
30°-40°	3996.7	8.8
40°-50°	6039.5	13.2
50°-60°	8745.5	19.2
60°-70°	11111.6	24.3
70°-80°	9007.6	19.7
80°-90°	1524.0	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°	45665.6	100.0
0°-180°	45665.6	100.0

Coefficient of Utilization



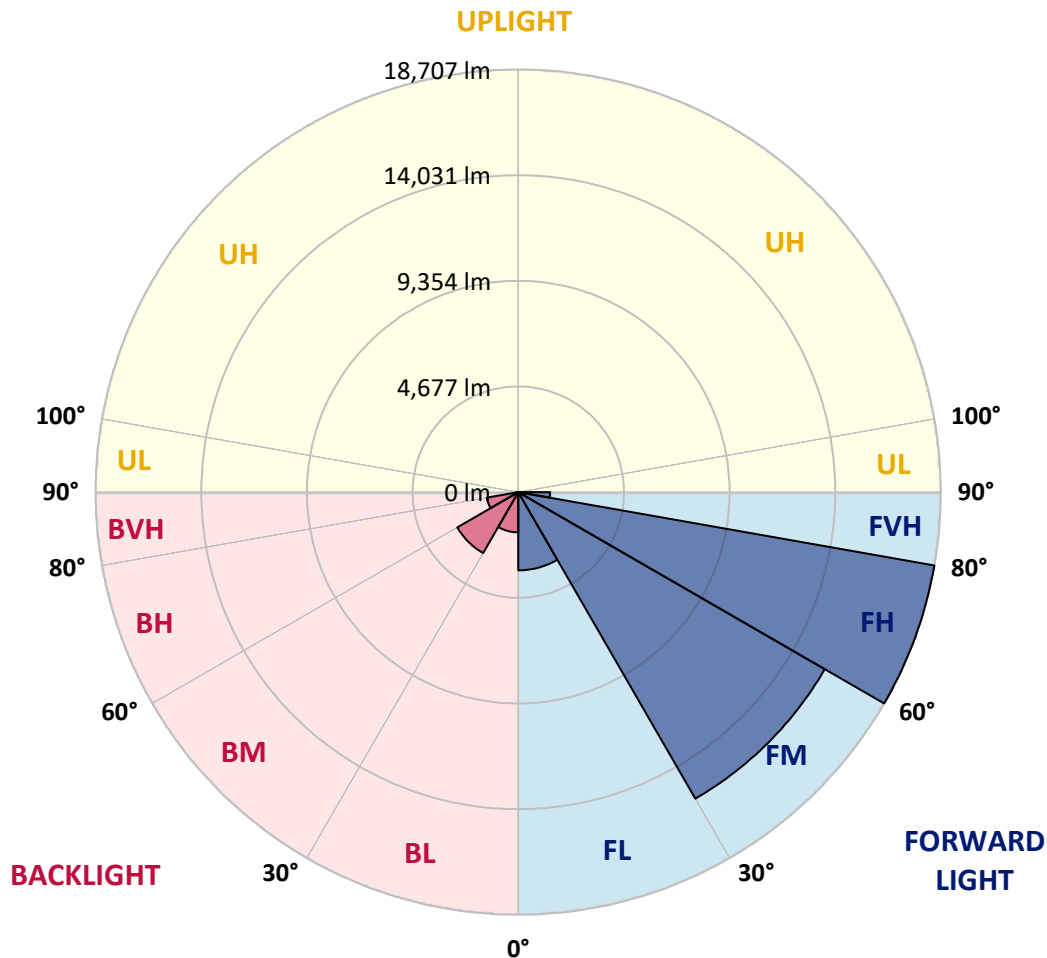
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3460.4	7.6			
FM (30°-60°)	15666.2	34.3			
FH (60°-80°)	18707.4	41.0			G5
FVH (80°-90°)	1412.2	3.1			G5
BL (0°-30°)	1780.2	3.9	B3/2500		
BM (30°-60°)	3115.4	6.8	B3/5000		
BH (60°-80°)	1411.8	3.1	B3/2500		G3/2500
BVH (80°-90°)	111.8	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°	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8
2.5°	8322.9	8236.1	8251.4	8220.7	8251.4	8241.2	8225.8	8149.2	8225.8	8149.2	8128.8
5°	8210.5	8210.5	8261.6	8185.0	8195.2	8144.1	8195.2	8139.0	8087.9	7960.2	7924.4
7.5°	8174.7	8169.6	8174.7	8067.4	8118.5	8087.9	8036.8	7975.5	7873.3	7791.5	7674.0
10°	7929.5	7980.6	7924.4	7955.0	7995.9	7904.0	7898.8	7883.5	7837.5	7730.2	7658.7
12.5°	7796.7	7883.5	7914.2	7888.6	7924.4	7934.6	7904.0	7883.5	7827.3	7755.8	7551.4
15°	7852.9	7750.7	7837.5	8006.1	7970.4	7995.9	8001.0	7980.6	7955.0	7822.2	7689.4
17.5°	7868.2	7806.9	7990.8	8026.6	8072.6	8164.5	8103.2	8098.1	8001.0	7909.1	7714.9
20°	7904.0	7878.4	8026.6	8215.6	8220.7	8236.1	8266.7	8190.1	8139.0	7980.6	7684.3
22.5°	8036.8	8123.6	8261.6	8343.3	8389.3	8399.5	8399.5	8246.3	8190.1	8062.3	7827.3
25°	8435.3	8343.3	8537.5	8634.6	8568.1	8552.8	8517.1	8379.1	8317.8	8205.4	7893.7
27.5°	8726.5	8721.4	8833.8	8966.7	8787.8	8823.6	8695.9	8655.0	8517.1	8455.7	8011.2
30°	9125.1	9237.5	9232.3	9273.2	9038.2	9079.1	8915.6	8838.9	8762.3	8798.1	8358.7
32.5°	9636.0	9595.1	9661.5	9630.9	9395.8	9431.6	9237.5	9119.9	9145.5	9252.8	8833.8
35°	9963.0	9922.1	9947.6	9947.6	9876.1	9835.2	9753.5	9600.2	9722.8	9922.1	9365.2
37.5°	10315.5	10366.6	10514.8	10484.1	10392.1	10392.1	10381.9	10274.6	10433.0	10923.5	10213.3
40°	10627.2	10765.1	10857.1	10918.4	11025.7	11025.7	11112.5	11051.2	11337.3	12124.2	11250.5
42.5°	10954.2	10959.3	11460.0	11505.9	11746.1	11848.3	11914.7	11965.8	12502.2	13381.0	12359.2
45°	11373.1	11398.7	11838.0	12190.6	12563.6	12599.3	12849.7	13018.3	13677.4	14755.4	13565.0
47.5°	11924.9	11894.2	12364.3	12926.3	13391.2	13636.5	13937.9	14121.9	14934.2	16247.3	14883.1
50°	12650.4	12558.4	12829.2	13713.1	14259.8	14530.6	15067.1	15373.6	16323.9	17672.8	15787.5
52.5°	13534.3	13381.0	13595.6	14561.3	15174.4	15721.0	16232.0	16574.3	17565.5	18776.4	16456.8
55°	14469.3	14152.5	14213.8	15460.5	16344.4	16860.4	17560.4	17918.0	18929.6	19767.5	17126.1
57.5°	15394.1	15194.8	15072.2	16323.9	17739.2	18234.8	18878.5	19343.5	20201.8	20646.3	17693.2
60°	16170.7	16119.6	15920.3	17662.5	19215.7	19639.8	20314.2	20600.3	21249.2	21458.7	17703.4
62.5°	16809.3	16635.6	16952.4	18740.6	20717.9	21198.1	21939.0	21964.5	22424.3	21964.5	17182.3
65°	17310.0	17320.2	17826.0	20043.4	22455.0	23165.2	23762.9	23696.5	23400.2	21663.1	15951.0
67.5°	17764.7	17958.9	18699.7	21474.0	24687.7	25357.0	26021.2	25142.4	23665.9	20252.9	13544.5
70°	18122.4	18316.5	19879.9	23216.3	27319.0	28299.9	28448.1	25714.7	22444.8	17156.7	10218.4
72.5°	18081.5	18434.0	20549.3	24606.0	29653.9	30502.0	29306.4	24105.3	18699.7	11960.7	5962.5
73°	18168.4	18342.1	20493.1	24994.3	30364.0	30788.1	28907.9	23599.5	17637.0	10729.3	5042.8
75°	16492.5	17080.1	19476.3	24360.7	29602.8	29526.1	26619.0	19665.4	12538.0	5635.5	2442.2
77.5°	12200.8	12573.8	15348.1	20033.2	24299.4	23808.9	20079.2	12568.7	5952.2	2089.7	1318.2
80°	5962.5	6253.7	8133.9	11567.3	15889.7	15930.5	12461.4	6539.8	2549.5	1180.2	899.2
82.5°	2978.7	3152.4	3908.5	5083.7	7817.1	8190.1	6320.1	3719.5	1578.7	669.3	510.9
85°	1946.6	2069.2	2406.4	2488.2	3315.9	3499.8	2942.9	2902.0	1027.0	362.8	413.8
87.5°	1292.6	1313.1	1476.6	1256.9	1328.4	1277.3	1420.4	1829.1	301.4	153.3	112.4
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°	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8	8128.8
2.5°	8103.2	8031.7	7955.0	7847.8	7771.1	7653.6	7546.3	7500.3	7490.1	7495.2	7444.1
5°	7893.7	7791.5	7638.3	7418.6	7290.8	7096.7	6933.2	6846.3	6754.4	6769.7	6728.8
7.5°	7602.5	7490.1	7255.1	6999.6	6682.8	6407.0	6253.7	6039.1	5916.5	5824.5	5875.6
10°	7510.5	7316.4	6963.9	6611.3	6120.8	5758.1	5405.5	5160.3	4991.7	4828.2	4899.7
12.5°	7464.6	7270.4	6779.9	6258.8	5625.2	5073.4	4577.9	4276.4	4036.3	3893.2	3949.4
15°	7423.7	7183.6	6606.2	5870.5	5160.3	4434.8	3877.9	3479.4	3249.5	3111.5	3126.8
17.5°	7479.9	7137.6	6350.8	5492.4	4649.4	3872.8	3254.6	2840.7	2605.7	2518.8	2498.4
20°	7423.7	7086.5	6100.4	5114.3	4138.5	3336.3	2743.6	2401.3	2237.8	2166.3	2151.0
22.5°	7444.1	6963.9	5839.8	4695.4	3663.3	2886.7	2401.3	2140.8	2013.0	1977.3	1987.5
25°	7541.2	6892.3	5579.3	4235.5	3193.3	2554.6	2181.6	1982.4	1890.4	1854.6	1864.9
27.5°	7612.7	6953.6	5344.2	3801.3	2794.7	2258.3	1997.7	1864.9	1803.6	1778.0	1772.9
30°	7791.5	6989.4	5114.3	3413.0	2467.7	2064.1	1870.0	1762.7	1721.8	1706.5	1701.4
32.5°	8057.2	7055.8	4848.6	3055.3	2227.6	1880.2	1767.8	1675.8	1665.6	1650.3	1655.4
35°	8491.5	7285.7	4552.3	2748.8	1997.7	1757.6	1660.5	1599.2	1599.2	1599.2	1614.5
37.5°	9114.8	7607.6	4286.6	2457.5	1849.5	1650.3	1568.5	1548.1	1537.9	1553.2	1563.4
40°	9917.0	7995.9	4072.0	2227.6	1721.8	1578.7	1507.2	1497.0	1491.9	1486.8	1497.0
42.5°	10795.8	8491.5	3888.1	2048.8	1629.8	1502.1	1451.0	1440.8	1420.4	1430.6	1445.9
45°	11669.4	9104.6	3724.6	1905.7	1568.5	1461.2	1389.7	1384.6	1374.4	1369.3	1394.8
47.5°	12640.2	9707.5	3673.5	1818.9	1522.5	1399.9	1348.8	1343.7	1313.1	1308.0	1328.4
50°	13396.4	10152.0	3729.7	1778.0	1456.1	1353.9	1318.2	1292.6	1267.1	1241.5	1241.5
52.5°	13917.5	10458.6	3770.6	1747.4	1420.4	1292.6	1246.6	1236.4	1210.9	1185.3	1175.1
55°	14387.5	10642.5	3780.8	1752.5	1384.6	1221.1	1190.4	1185.3	1170.0	1129.1	1118.9
57.5°	14545.9	10565.9	3576.4	1706.5	1364.2	1175.1	1134.2	1144.5	1124.0	1088.3	1083.2
60°	14530.6	10034.5	3111.5	1645.2	1318.2	1124.0	1072.9	1103.6	1103.6	1062.7	1057.6
62.5°	13646.7	8808.3	2544.4	1527.7	1267.1	1072.9	1016.7	1062.7	1078.0	1052.5	1047.4
65°	11812.5	7173.3	2125.4	1410.1	1190.4	1016.7	960.5	1011.6	1037.2	1027.0	1021.8
67.5°	9773.9	5487.3	1767.8	1256.9	1093.4	940.1	894.1	929.9	945.2	950.3	955.4
70°	6907.7	3653.1	1476.6	1088.3	960.5	858.3	807.3	812.4	807.3	822.6	822.6
72.5°	3755.3	2105.0	1200.7	924.8	827.7	745.9	710.2	684.6	684.6	679.5	679.5
73°	3213.7	1890.4	1144.5	899.2	791.9	725.5	684.6	664.2	664.2	659.1	654.0
75°	1803.6	1384.6	981.0	771.5	684.6	633.5	602.9	572.2	567.1	567.1	567.1
77.5°	1185.3	1078.0	781.7	618.2	551.8	505.8	495.6	464.9	464.9	464.9	459.8
80°	889.0	848.1	602.9	470.0	424.1	388.3	378.1	357.6	352.5	332.1	337.2
82.5°	592.7	669.3	439.4	332.1	286.1	265.7	265.7	260.6	245.2	219.7	219.7
85°	470.0	546.7	316.8	204.4	168.6	143.1	148.2	143.1	137.9	112.4	107.3
87.5°	86.9	219.7	92.0	56.2	40.9	25.5	25.5	15.3	10.2	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)