

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: P480943

Luminaire Tested: **IFLD-S-SA6D-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480943
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

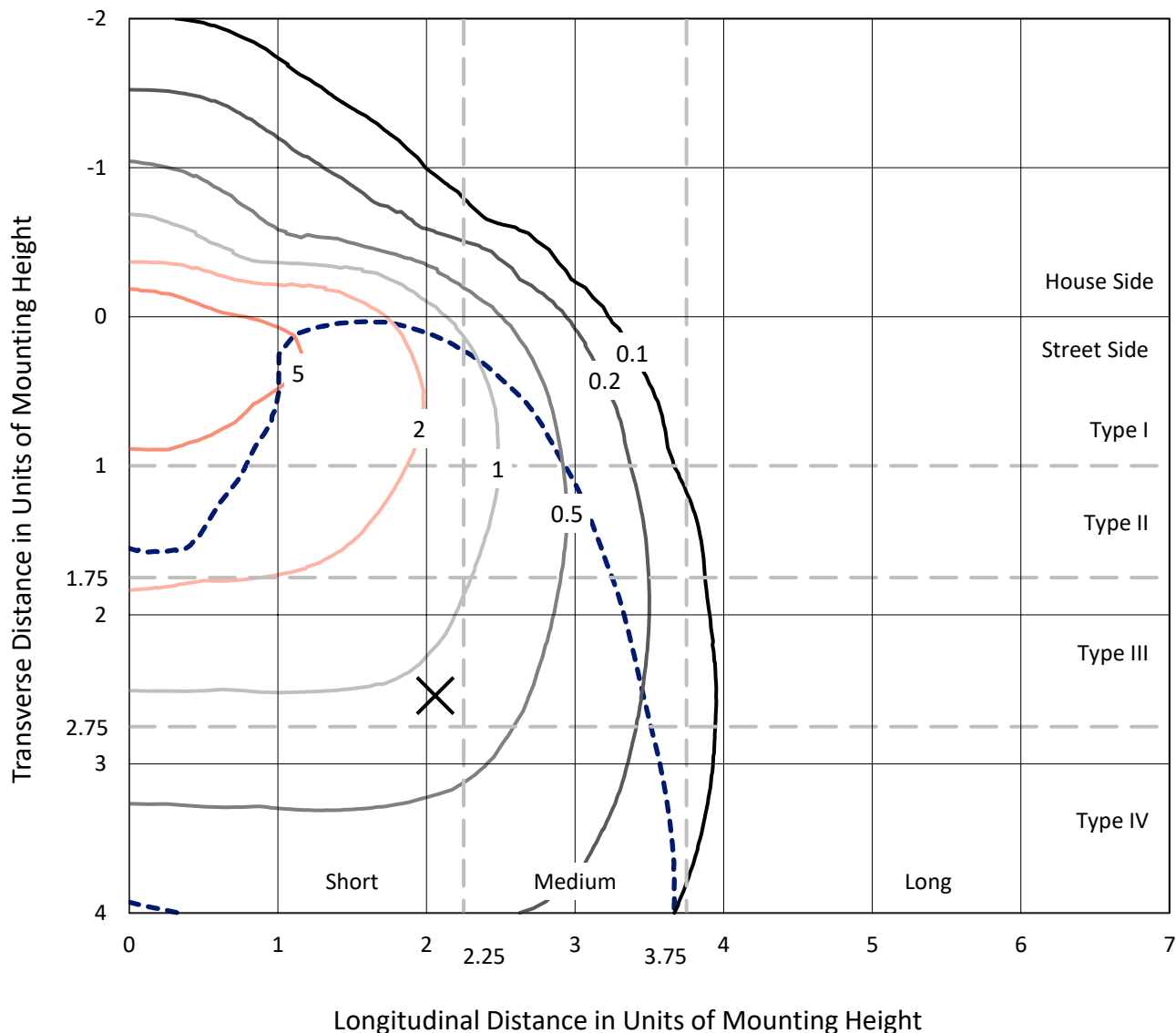
Lumens per Lamp: N/A
Luminaire Lumens: 45238.6 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

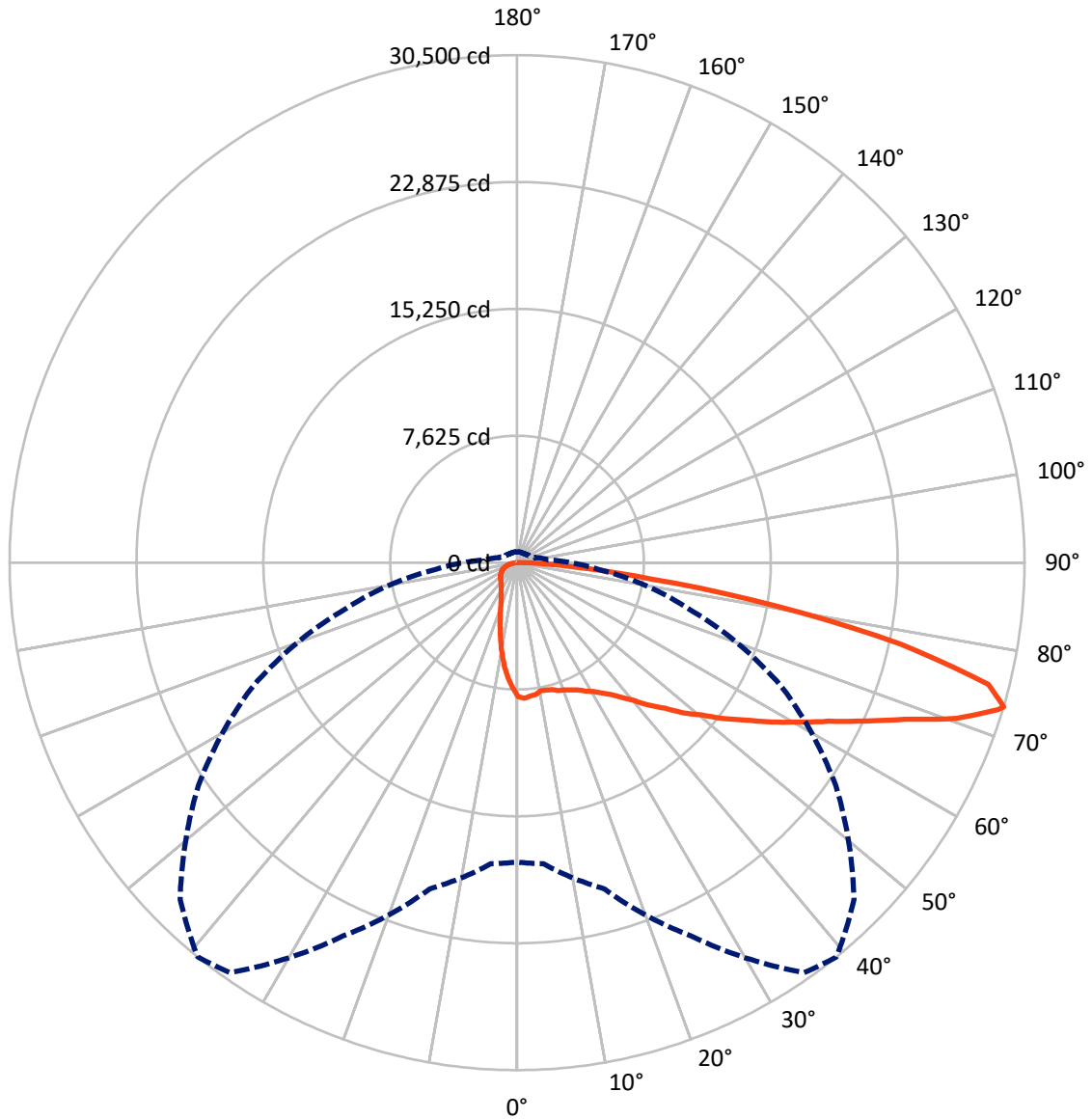
× Max cd
 - - - 1/2 Max cd



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	6359.3	0.0	6359.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	38879.3	0.0	38879.3
	% Fixture	85.9	0.0	85.9
Total	Lumens	45238.6	0.0	45238.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.0	1.5
10°-20°	1777.1	3.9
20°-30°	2715.5	6.0
30°-40°	3959.4	8.8
40°-50°	5983.0	13.2
50°-60°	8663.7	19.2
60°-70°	11007.7	24.3
70°-80°	8923.4	19.7
80°-90°	1509.8	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°	45238.6	100.0
0°-180°	45238.6	100.0

Coefficient of Utilization

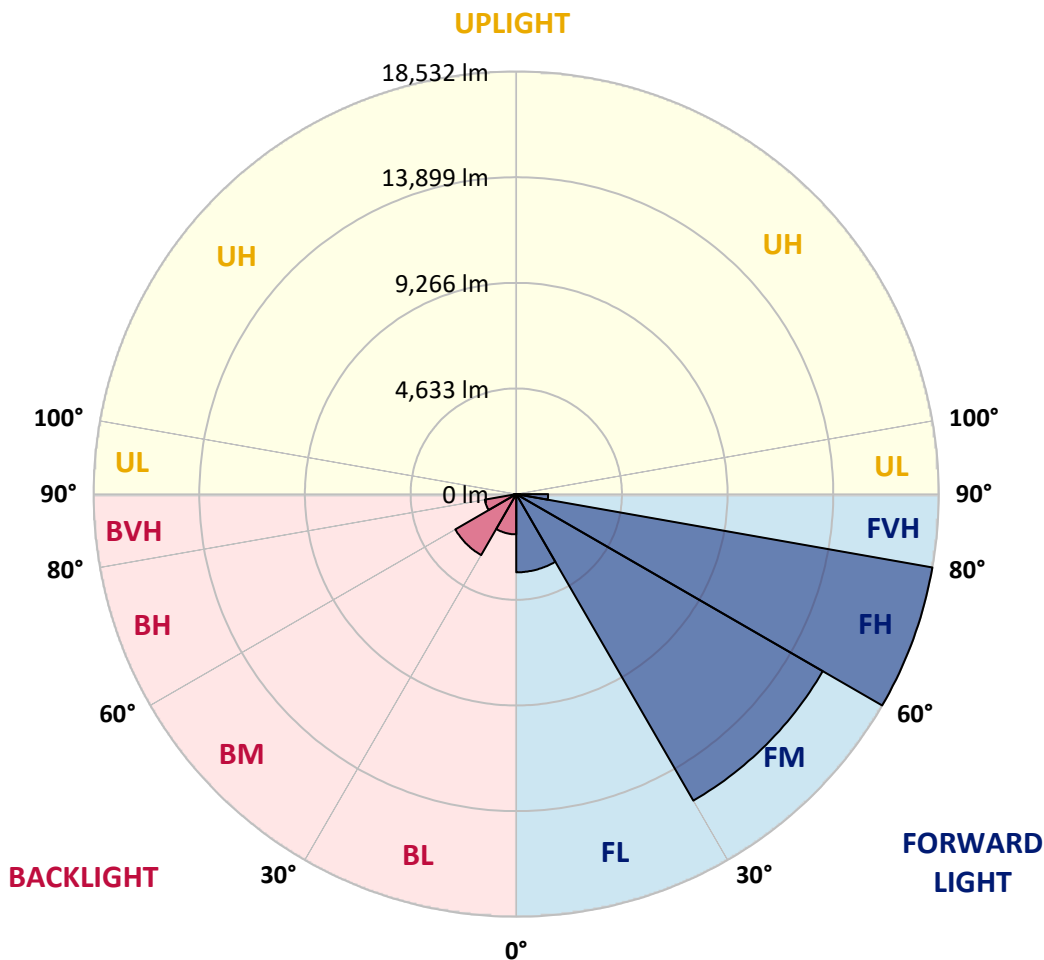


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3428.1	7.6			
FM (30°-60°)	15519.8	34.3			
FH (60°-80°)	18532.4	41.0			G5
FVH (80°-90°)	1399.0	3.1			G5
BL (0°-30°)	1763.6	3.9	B3/2500		
BM (30°-60°)	3086.3	6.8	B3/5000		
BH (60°-80°)	1398.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	110.8	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°	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7
2.5°	8245.1	8159.0	8174.2	8143.8	8174.2	8164.1	8148.9	8073.0	8148.9	8073.0	8052.7
5°	8133.7	8133.7	8184.3	8108.4	8118.5	8067.9	8118.5	8062.9	8012.3	7885.7	7850.3
7.5°	8098.3	8093.2	8098.3	7992.0	8042.6	8012.3	7961.6	7900.9	7799.7	7718.7	7602.3
10°	7855.3	7906.0	7850.3	7880.7	7921.1	7830.0	7825.0	7809.8	7764.2	7658.0	7587.1
12.5°	7723.8	7809.8	7840.2	7814.9	7850.3	7860.4	7830.0	7809.8	7754.1	7683.3	7480.8
15°	7779.4	7678.2	7764.2	7931.3	7895.8	7921.1	7926.2	7906.0	7880.7	7749.1	7617.5
17.5°	7794.6	7733.9	7916.1	7951.5	7997.1	8088.2	8027.4	8022.4	7926.2	7835.1	7642.8
20°	7830.0	7804.7	7951.5	8138.8	8143.8	8159.0	8189.4	8113.5	8062.9	7906.0	7612.4
22.5°	7961.6	8047.7	8184.3	8265.3	8310.9	8321.0	8321.0	8169.2	8113.5	7986.9	7754.1
25°	8356.4	8265.3	8457.7	8553.8	8488.0	8472.8	8437.4	8300.8	8240.0	8128.7	7819.9
27.5°	8644.9	8639.9	8751.2	8882.8	8705.7	8741.1	8614.6	8574.1	8437.4	8376.7	7936.3
30°	9039.7	9151.1	9146.0	9186.5	8953.7	8994.2	8832.2	8756.3	8680.4	8715.8	8280.5
32.5°	9545.9	9505.4	9571.2	9540.8	9308.0	9343.4	9151.1	9034.7	9060.0	9166.3	8751.2
35°	9869.8	9829.3	9854.6	9854.6	9783.8	9743.3	9662.3	9510.4	9631.9	9829.3	9277.6
37.5°	10219.0	10269.7	10416.4	10386.1	10295.0	10295.0	10284.8	10178.5	10335.5	10821.3	10117.8
40°	10527.8	10664.4	10755.6	10816.3	10922.6	10922.6	11008.6	10947.9	11231.3	12010.8	11145.3
42.5°	10851.7	10856.8	11352.8	11398.4	11636.2	11737.5	11803.3	11853.9	12385.3	13255.9	12243.6
45°	11266.8	11292.1	11727.3	12076.6	12446.1	12481.5	12729.5	12896.5	13549.5	14617.4	13438.1
47.5°	11813.4	11783.0	12248.7	12805.4	13266.0	13509.0	13807.6	13989.8	14794.6	16095.4	14744.0
50°	12532.1	12441.0	12709.3	13584.9	14126.5	14394.7	14926.2	15229.9	16171.3	17507.5	15639.8
52.5°	13407.7	13255.9	13468.5	14425.1	15032.5	15574.0	16080.2	16419.3	17401.2	18600.8	16302.9
55°	14334.0	14020.2	14080.9	15315.9	16191.5	16702.7	17396.2	17750.5	18752.6	19582.7	16965.9
57.5°	15250.1	15052.7	14931.2	16171.3	17573.3	18064.3	18702.0	19162.6	20012.9	20453.3	17527.8
60°	16019.4	15968.8	15771.4	17497.4	19036.1	19456.2	20124.3	20407.7	21050.5	21258.0	17537.9
62.5°	16652.1	16480.0	16793.8	18565.3	20524.1	20999.9	21733.8	21759.1	22214.6	21759.1	17021.6
65°	17148.1	17158.3	17659.3	19856.0	22245.0	22948.5	23540.7	23474.9	23181.4	21460.5	15801.8
67.5°	17598.6	17790.9	18524.9	21273.2	24456.9	25119.9	25777.9	24907.3	23444.6	20063.5	13417.9
70°	17952.9	18145.2	19694.0	22999.2	27063.5	28035.3	28182.1	25474.2	22234.9	16996.3	10122.9
72.5°	17912.4	18261.7	20357.1	24375.9	29376.6	30216.8	29032.4	23879.9	18524.9	11848.8	5906.7
73°	17998.5	18170.6	20301.4	24760.5	30080.1	30500.2	28637.6	23378.8	17472.1	10629.0	4995.6
75°	16338.3	16920.4	19294.2	24132.9	29326.0	29250.0	26370.1	19481.5	12420.8	5582.8	2419.4
77.5°	12086.7	12456.2	15204.6	19845.9	24072.2	23586.3	19891.4	12451.1	5896.6	2070.1	1305.9
80°	5906.7	6195.2	8057.8	11459.1	15741.1	15781.6	12344.8	6478.6	2525.7	1169.2	890.8
82.5°	2950.8	3122.9	3872.0	5036.1	7744.0	8113.5	6261.0	3684.7	1564.0	663.0	506.1
85°	1928.4	2049.9	2383.9	2464.9	3284.9	3467.1	2915.4	2874.9	1017.3	359.4	410.0
87.5°	1280.5	1300.8	1462.8	1245.1	1316.0	1265.4	1407.1	1812.0	298.6	151.8	111.4
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°	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7	8052.7
2.5°	8027.4	7956.6	7880.7	7774.4	7698.4	7582.0	7475.7	7430.2	7420.1	7425.1	7374.5
5°	7819.9	7718.7	7566.8	7349.2	7222.7	7030.3	6868.4	6782.3	6691.2	6706.4	6665.9
7.5°	7531.4	7420.1	7187.2	6934.2	6620.4	6347.0	6195.2	5982.6	5861.1	5770.0	5820.7
10°	7440.3	7248.0	6898.7	6549.5	6063.6	5704.2	5355.0	5112.0	4945.0	4783.1	4853.9
12.5°	7394.8	7202.4	6716.5	6200.3	5572.6	5026.0	4535.0	4236.4	3998.5	3856.8	3912.5
15°	7354.3	7116.4	6544.4	5815.6	5112.0	4393.3	3841.6	3446.8	3219.1	3082.4	3097.6
17.5°	7409.9	7070.8	6291.4	5441.0	4605.9	3836.6	3224.1	2814.2	2581.3	2495.3	2475.0
20°	7354.3	7020.2	6043.4	5066.5	4099.8	3305.1	2718.0	2378.9	2216.9	2146.0	2130.9
22.5°	7374.5	6898.7	5785.2	4651.5	3629.0	2859.7	2378.9	2120.7	1994.2	1958.8	1968.9
25°	7470.7	6827.9	5527.1	4195.9	3163.4	2530.7	2161.2	1963.8	1872.7	1837.3	1847.4
27.5°	7541.5	6888.6	5294.3	3765.7	2768.6	2237.2	1979.0	1847.4	1786.7	1761.4	1756.3
30°	7718.7	6924.0	5066.5	3381.0	2444.7	2044.8	1852.5	1746.2	1705.7	1690.5	1685.5
32.5°	7981.9	6989.8	4803.3	3026.7	2206.8	1862.6	1751.3	1660.2	1650.0	1634.8	1639.9
35°	8412.1	7217.6	4509.7	2723.1	1979.0	1741.1	1645.0	1584.2	1584.2	1584.2	1599.4
37.5°	9029.6	7536.5	4246.5	2434.6	1832.2	1634.8	1553.9	1533.6	1523.5	1538.7	1548.8
40°	9824.2	7921.1	4034.0	2206.8	1705.7	1564.0	1493.1	1483.0	1477.9	1472.9	1483.0
42.5°	10694.8	8412.1	3851.8	2029.6	1614.6	1488.1	1437.4	1427.3	1407.1	1417.2	1432.4
45°	11560.3	9019.5	3689.8	1887.9	1553.9	1447.6	1376.7	1371.6	1361.5	1356.5	1381.8
47.5°	12522.0	9616.7	3639.2	1801.9	1508.3	1386.8	1336.2	1331.2	1300.8	1295.7	1316.0
50°	13271.1	10057.1	3694.8	1761.4	1442.5	1341.3	1305.9	1280.5	1255.2	1229.9	1229.9
52.5°	13787.4	10360.8	3735.3	1731.0	1407.1	1280.5	1235.0	1224.9	1199.6	1174.3	1164.1
55°	14253.0	10543.0	3745.5	1736.1	1371.6	1209.7	1179.3	1174.3	1159.1	1118.6	1108.5
57.5°	14409.9	10467.0	3543.0	1690.5	1351.4	1164.1	1123.6	1133.8	1113.5	1078.1	1073.0
60°	14394.7	9940.7	3082.4	1629.8	1305.9	1113.5	1062.9	1093.3	1093.3	1052.8	1047.7
62.5°	13519.1	8725.9	2520.6	1513.4	1255.2	1062.9	1007.2	1052.8	1068.0	1042.7	1037.6
65°	11702.0	7106.3	2105.6	1397.0	1179.3	1007.2	951.5	1002.2	1027.5	1017.3	1012.3
67.5°	9682.5	5436.0	1751.3	1245.1	1083.1	931.3	885.8	921.2	936.4	941.4	946.5
70°	6843.1	3618.9	1462.8	1078.1	951.5	850.3	799.7	804.8	799.7	814.9	814.9
72.5°	3720.2	2085.3	1189.4	916.1	820.0	739.0	703.5	678.2	678.2	673.2	673.2
73°	3183.6	1872.7	1133.8	890.8	784.5	718.7	678.2	658.0	658.0	652.9	647.9
75°	1786.7	1371.6	971.8	764.3	678.2	627.6	597.2	566.9	561.8	561.8	561.8
77.5°	1174.3	1068.0	774.4	612.4	546.6	501.1	491.0	460.6	460.6	460.6	455.5
80°	880.7	840.2	597.2	465.7	420.1	384.7	374.5	354.3	349.2	329.0	334.1
82.5°	587.1	663.0	435.3	329.0	283.4	263.2	263.2	258.1	242.9	217.6	217.6
85°	465.7	541.6	313.8	202.5	167.0	141.7	146.8	141.7	136.7	111.4	106.3
87.5°	86.0	217.6	91.1	55.7	40.5	25.3	25.3	15.2	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)