

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: P480874

Luminaire Tested: **IFLD-L-SA7C-735-U-SL4**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480874
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

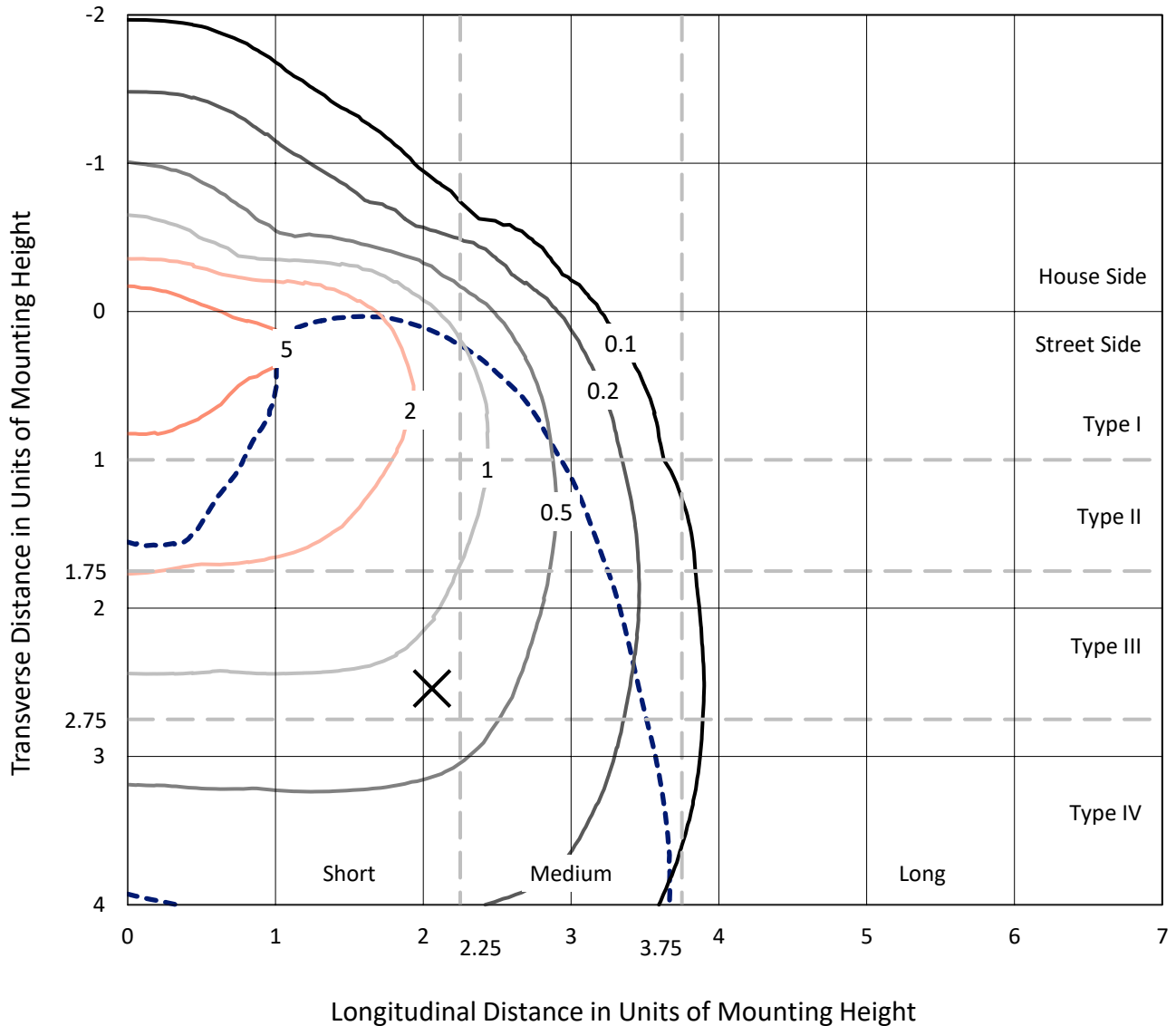
Lumens per Lamp: N/A
Luminaire Lumens: 42292.9 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

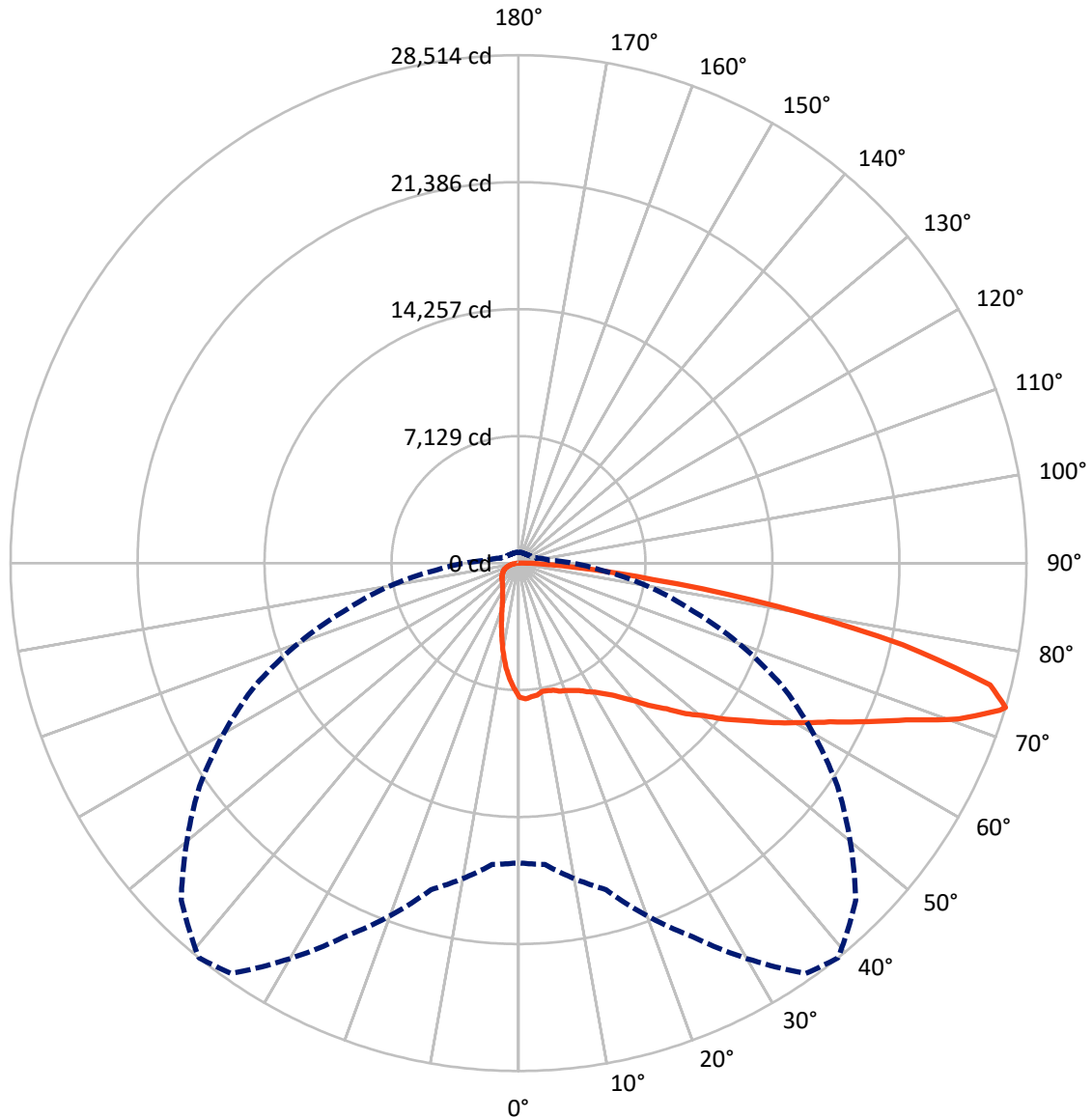
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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	5945.2	0.0	5945.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	36347.7	0.0	36347.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	42292.9	0.0	42292.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.5	1.5
10°-20°	1661.3	3.9
20°-30°	2538.7	6.0
30°-40°	3701.5	8.8
40°-50°	5593.4	13.2
50°-60°	8099.6	19.2
60°-70°	10290.9	24.3
70°-80°	8342.4	19.7
80°-90°	1411.5	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°	42292.9	100.0
0°-180°	42292.9	100.0

Coefficient of Utilization



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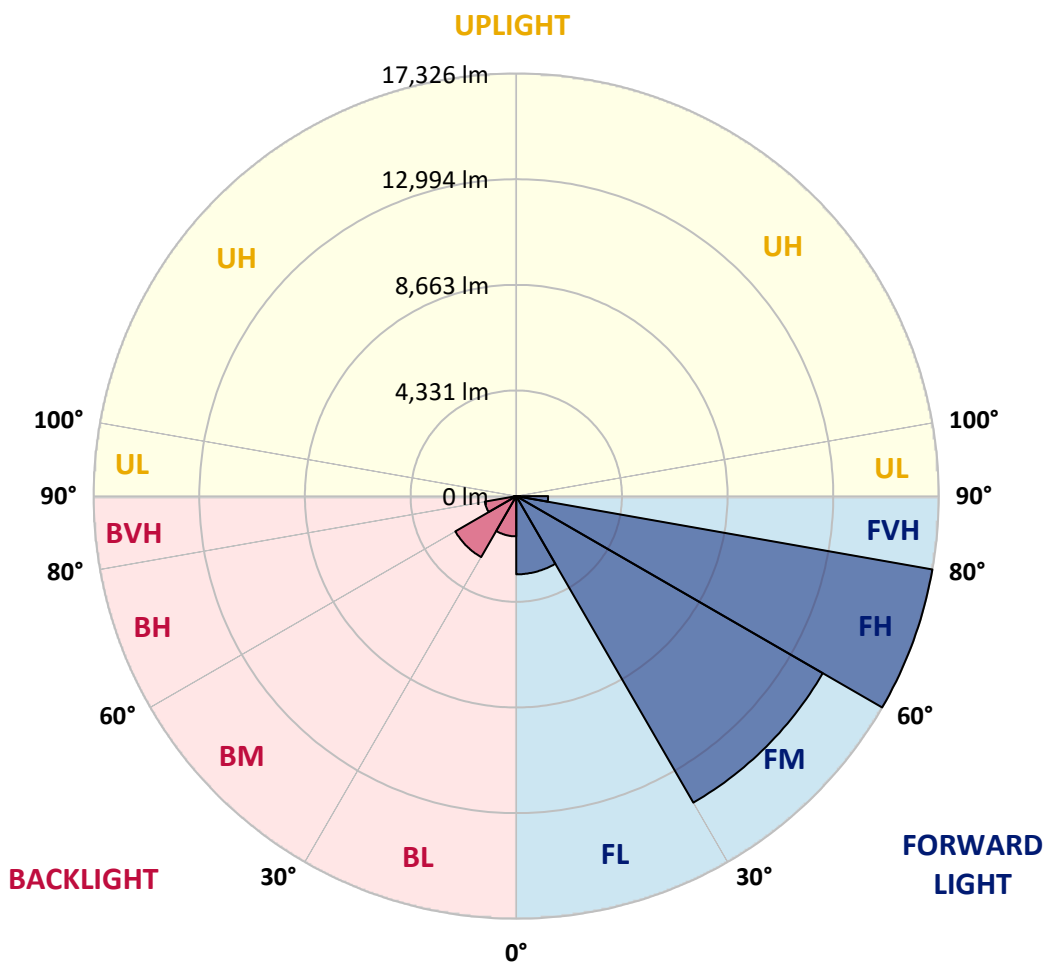
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3204.9	7.6			
FM (30°-60°)	14509.2	34.3			
FH (60°-80°)	17325.7	41.0			G5
FVH (80°-90°)	1307.9	3.1			G5
BL (0°-30°)	1648.7	3.9	B3/2500		
BM (30°-60°)	2885.4	6.8	B3/5000		
BH (60°-80°)	1307.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	103.6	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°	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4
2.5°	7708.2	7627.8	7642.0	7613.6	7642.0	7632.5	7618.3	7547.3	7618.3	7547.3	7528.4
5°	7604.1	7604.1	7651.4	7580.4	7589.9	7542.6	7589.9	7537.9	7490.5	7372.2	7339.1
7.5°	7571.0	7566.2	7571.0	7471.6	7518.9	7490.5	7443.2	7386.4	7291.8	7216.1	7107.3
10°	7343.8	7391.2	7339.1	7367.5	7405.4	7320.2	7315.5	7301.3	7258.7	7159.3	7093.1
12.5°	7220.8	7301.3	7329.7	7306.0	7339.1	7348.6	7320.2	7301.3	7249.2	7183.0	6993.7
15°	7272.9	7178.2	7258.7	7414.8	7381.7	7405.4	7410.1	7391.2	7367.5	7244.5	7121.5
17.5°	7287.1	7230.3	7400.6	7433.8	7476.3	7561.5	7504.7	7500.0	7410.1	7324.9	7145.1
20°	7320.2	7296.5	7433.8	7608.8	7613.6	7627.8	7656.2	7585.2	7537.9	7391.2	7116.7
22.5°	7443.2	7523.7	7651.4	7727.1	7769.7	7779.2	7779.2	7637.2	7585.2	7466.9	7249.2
25°	7812.3	7727.1	7906.9	7996.8	7935.3	7921.1	7888.0	7760.3	7703.5	7599.4	7310.7
27.5°	8082.0	8077.3	8181.4	8304.4	8138.8	8171.9	8053.6	8015.8	7888.0	7831.2	7419.6
30°	8451.1	8555.2	8550.5	8588.3	8370.7	8408.5	8257.1	8186.1	8115.1	8148.3	7741.3
32.5°	8924.3	8886.4	8947.9	8919.6	8701.9	8735.0	8555.2	8446.4	8470.0	8569.4	8181.4
35°	9227.1	9189.3	9212.9	9212.9	9146.7	9108.8	9033.1	8891.2	9004.7	9189.3	8673.5
37.5°	9553.6	9600.9	9738.2	9709.8	9624.6	9624.6	9615.1	9515.8	9662.5	10116.7	9459.0
40°	9842.3	9970.0	10055.2	10112.0	10211.4	10211.4	10291.8	10235.0	10500.0	11228.7	10419.6
42.5°	10145.1	10149.8	10613.6	10656.2	10878.5	10973.2	11034.7	11082.0	11578.9	12392.7	11446.4
45°	10533.1	10556.8	10963.7	11290.2	11635.6	11668.8	11900.6	12056.8	12667.2	13665.6	12563.1
47.5°	11044.2	11015.8	11451.1	11971.6	12402.2	12629.3	12908.5	13078.9	13831.2	15047.3	13783.9
50°	11716.1	11630.9	11881.7	12700.3	13206.6	13457.4	13954.3	14238.2	15118.3	16367.5	14621.5
52.5°	12534.7	12392.7	12591.5	13485.8	14053.6	14559.9	15033.1	15350.2	16268.1	17389.6	15241.3
55°	13400.6	13107.3	13164.0	14318.6	15137.2	15615.1	16263.4	16594.6	17531.5	18307.6	15861.2
57.5°	14257.1	14072.6	13959.0	15118.3	16429.0	16888.0	17484.2	17914.8	18709.8	19121.5	16386.4
60°	14976.3	14929.0	14744.5	16358.0	17796.5	18189.3	18813.9	19078.9	19679.8	19873.8	16395.9
62.5°	15567.8	15406.9	15700.3	17356.5	19187.7	19632.5	20318.6	20342.3	20768.1	20342.3	15913.2
65°	16031.5	16041.0	16509.5	18563.1	20796.5	21454.3	22007.9	21946.4	21671.9	20063.1	14772.9
67.5°	16452.7	16632.5	17318.6	19888.0	22864.4	23484.2	24099.4	23285.5	21918.0	18757.1	12544.2
70°	16783.9	16963.7	18411.7	21501.6	25301.3	26209.8	26347.0	23815.5	20787.1	15889.6	9463.7
72.5°	16746.1	17072.6	19031.5	22788.6	27463.7	28249.2	27142.0	22324.9	17318.6	11077.3	5522.1
73°	16826.5	16987.4	18979.5	23148.3	28121.5	28514.2	26772.9	21856.5	16334.4	9936.9	4670.3
75°	15274.4	15818.6	18037.9	22561.5	27416.4	27345.4	24653.0	18212.9	11612.0	5219.2	2261.8
77.5°	11299.7	11645.1	14214.5	18553.6	22504.7	22050.5	18596.2	11640.4	5512.6	1935.3	1220.8
80°	5522.1	5791.8	7533.1	10712.9	14716.1	14753.9	11541.0	6056.8	2361.2	1093.1	832.8
82.5°	2758.7	2919.6	3619.9	4708.2	7239.7	7585.2	5853.3	3444.8	1462.1	619.9	473.2
85°	1802.8	1916.4	2228.7	2304.4	3071.0	3241.3	2725.6	2687.7	951.1	336.0	383.3
87.5°	1197.2	1216.1	1367.5	1164.0	1230.3	1183.0	1315.5	1694.0	279.2	142.0	104.1
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°	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4	7528.4
2.5°	7504.7	7438.5	7367.5	7268.1	7197.2	7088.3	6989.0	6946.4	6936.9	6941.6	6894.3
5°	7310.7	7216.1	7074.1	6870.7	6752.4	6572.6	6421.1	6340.7	6255.5	6269.7	6231.9
7.5°	7041.0	6936.9	6719.2	6482.6	6189.3	5933.8	5791.8	5593.1	5479.5	5394.3	5441.6
10°	6955.8	6776.0	6449.5	6123.0	5668.8	5332.8	5006.3	4779.2	4623.0	4471.6	4537.9
12.5°	6913.2	6733.4	6279.2	5796.5	5209.8	4698.7	4239.7	3960.6	3738.2	3605.7	3657.7
15°	6875.4	6653.0	6118.3	5436.9	4779.2	4107.3	3591.5	3222.4	3009.5	2881.7	2895.9
17.5°	6927.4	6610.4	5881.7	5086.8	4306.0	3586.8	3014.2	2630.9	2413.2	2332.8	2313.9
20°	6875.4	6563.1	5649.8	4736.6	3832.8	3089.9	2541.0	2224.0	2072.6	2006.3	1992.1
22.5°	6894.3	6449.5	5408.5	4348.6	3392.7	2673.5	2224.0	1982.6	1864.4	1831.2	1840.7
25°	6984.2	6383.3	5167.2	3922.7	2957.4	2365.9	2020.5	1836.0	1750.8	1717.7	1727.1
27.5°	7050.5	6440.1	4949.5	3520.5	2588.3	2091.5	1850.2	1727.1	1670.3	1646.7	1642.0
30°	7216.1	6473.2	4736.6	3160.9	2285.5	1911.7	1731.9	1632.5	1594.6	1580.4	1575.7
32.5°	7462.1	6534.7	4490.5	2829.7	2063.1	1741.3	1637.2	1552.1	1542.6	1528.4	1533.1
35°	7864.4	6747.6	4216.1	2545.7	1850.2	1627.8	1537.9	1481.1	1481.1	1481.1	1495.3
37.5°	8441.6	7045.7	3970.0	2276.0	1712.9	1528.4	1452.7	1433.8	1424.3	1438.5	1447.9
40°	9184.5	7405.4	3771.3	2063.1	1594.6	1462.1	1395.9	1386.4	1381.7	1377.0	1386.4
42.5°	9998.4	7864.4	3600.9	1897.5	1509.5	1391.2	1343.8	1334.4	1315.5	1324.9	1339.1
45°	10807.6	8432.2	3449.5	1765.0	1452.7	1353.3	1287.1	1282.3	1272.9	1268.1	1291.8
47.5°	11706.6	8990.5	3402.2	1684.5	1410.1	1296.5	1249.2	1244.5	1216.1	1211.4	1230.3
50°	12406.9	9402.2	3454.3	1646.7	1348.6	1253.9	1220.8	1197.2	1173.5	1149.8	1149.8
52.5°	12889.6	9686.1	3492.1	1618.3	1315.5	1197.2	1154.6	1145.1	1121.5	1097.8	1088.3
55°	13324.9	9856.5	3501.6	1623.0	1282.3	1130.9	1102.5	1097.8	1083.6	1045.7	1036.3
57.5°	13471.6	9785.5	3312.3	1580.4	1263.4	1088.3	1050.5	1059.9	1041.0	1007.9	1003.2
60°	13457.4	9293.4	2881.7	1523.7	1220.8	1041.0	993.7	1022.1	1022.1	984.2	979.5
62.5°	12638.8	8157.7	2356.5	1414.8	1173.5	993.7	941.6	984.2	998.4	974.8	970.0
65°	10940.1	6643.5	1968.5	1306.0	1102.5	941.6	889.6	936.9	960.6	951.1	946.4
67.5°	9052.1	5082.0	1637.2	1164.0	1012.6	870.7	828.1	861.2	875.4	880.1	884.9
70°	6397.5	3383.3	1367.5	1007.9	889.6	795.0	747.6	752.4	747.6	761.8	761.8
72.5°	3477.9	1949.5	1112.0	856.5	766.6	690.9	657.7	634.1	634.1	629.3	629.3
73°	2976.3	1750.8	1059.9	832.8	733.4	671.9	634.1	615.1	615.1	610.4	605.7
75°	1670.3	1282.3	908.5	714.5	634.1	586.8	558.4	530.0	525.2	525.2	525.2
77.5°	1097.8	998.4	724.0	572.6	511.0	468.5	459.0	430.6	430.6	430.6	425.9
80°	823.3	785.5	558.4	435.3	392.7	359.6	350.2	331.2	326.5	307.6	312.3
82.5°	548.9	619.9	406.9	307.6	265.0	246.1	246.1	241.3	227.1	203.5	203.5
85°	435.3	506.3	293.4	189.3	156.2	132.5	137.2	132.5	127.8	104.1	99.4
87.5°	80.4	203.5	85.2	52.1	37.9	23.7	23.7	14.2	9.5	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)