

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: P480913

Luminaire Tested: **IFLD-L-SA7C-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480913
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

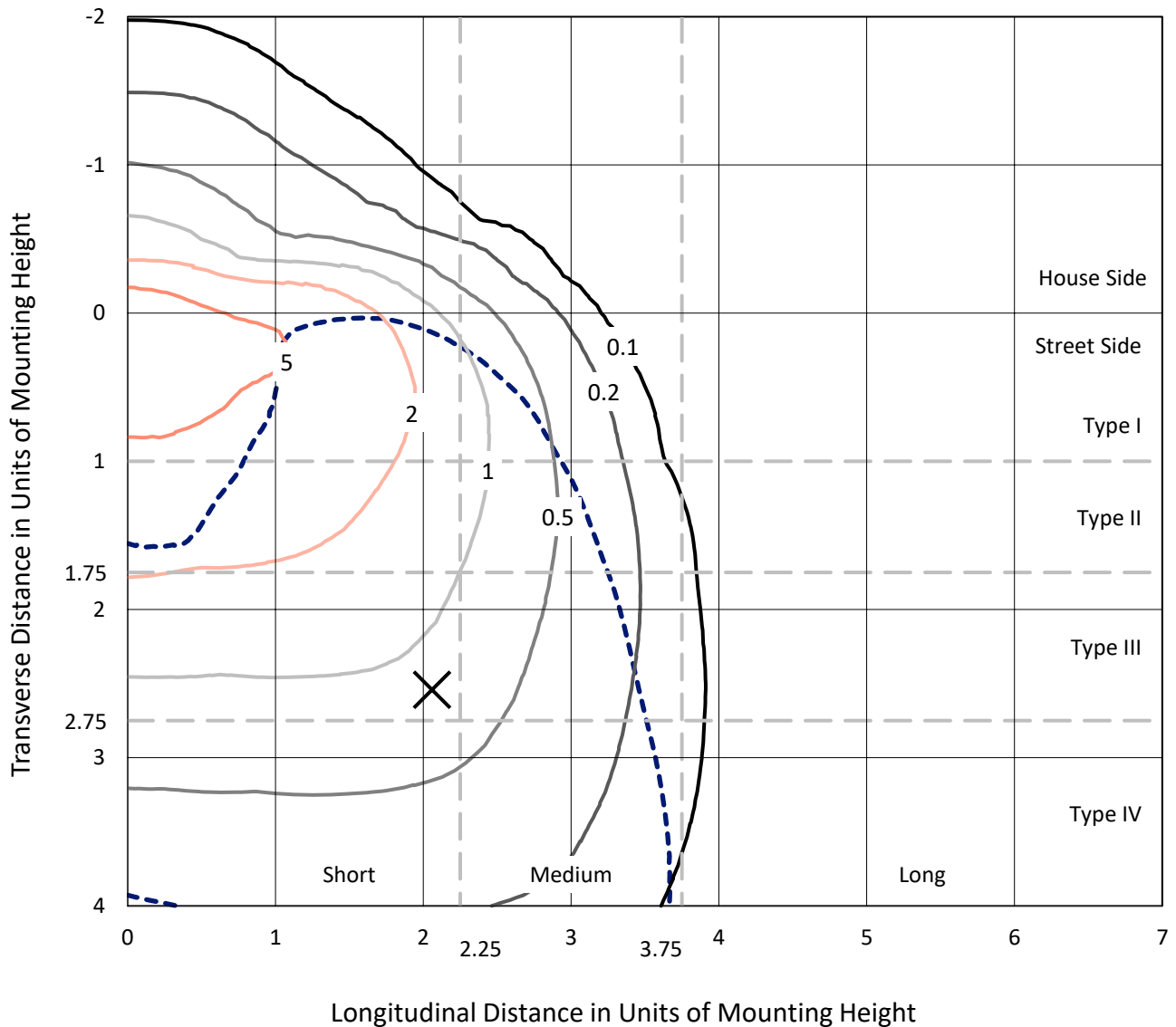
Lumens per Lamp: N/A
Luminaire Lumens: 42880.3 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

REPORT NUMBER: P480913
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

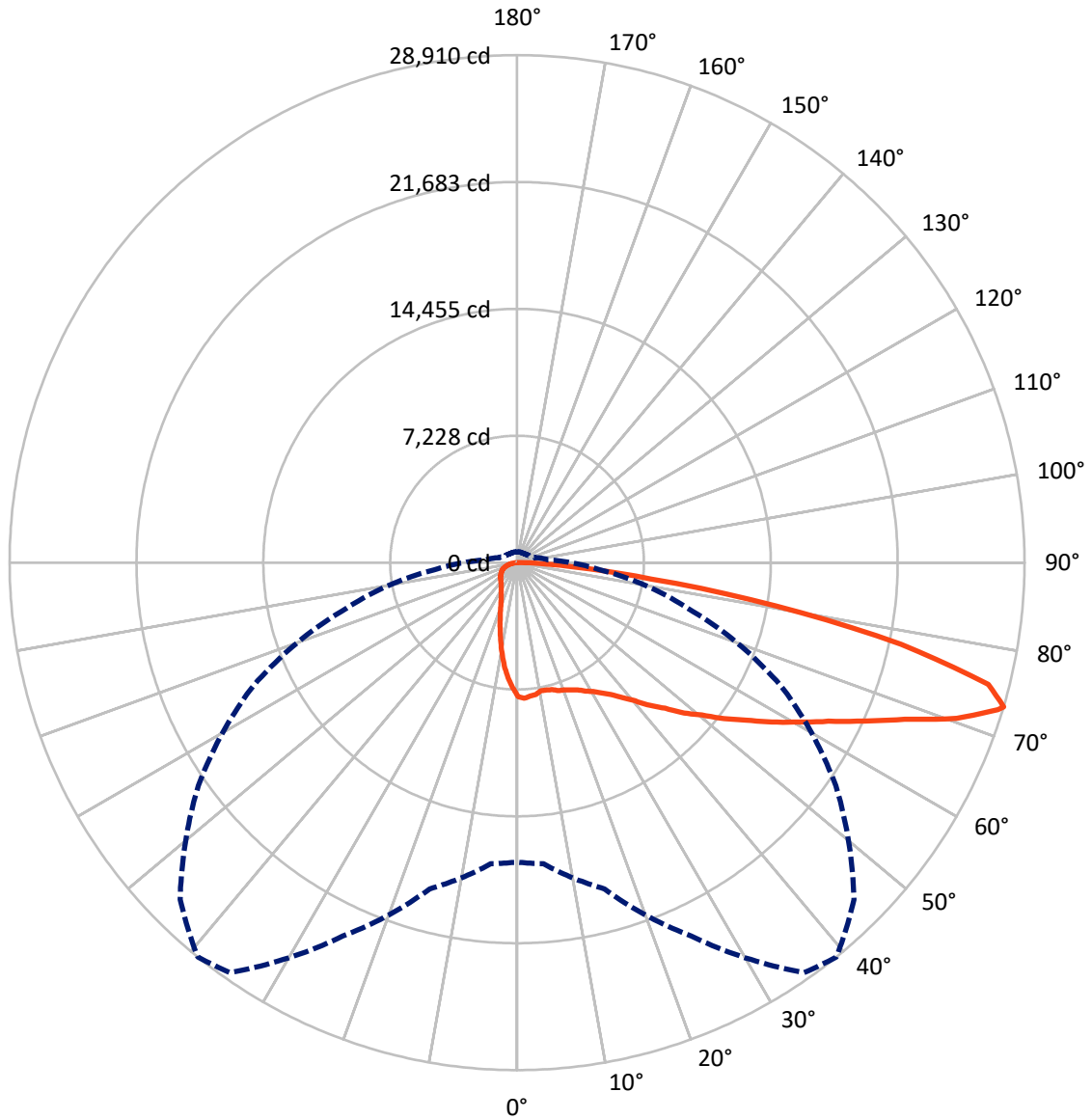
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P480913
CATALOG NUMBER: IFLD-L-SA7C-740-U-SL4

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	6027.8	0.0	6027.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	36852.6	0.0	36852.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	42880.3	0.0	42880.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.6	1.5
10°-20°	1684.4	3.9
20°-30°	2574.0	6.0
30°-40°	3753.0	8.8
40°-50°	5671.1	13.2
50°-60°	8212.1	19.2
60°-70°	10433.8	24.3
70°-80°	8458.2	19.7
80°-90°	1431.1	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°	42880.3	100.0
0°-180°	42880.3	100.0

Coefficient of Utilization



REPORT NUMBER: P480913

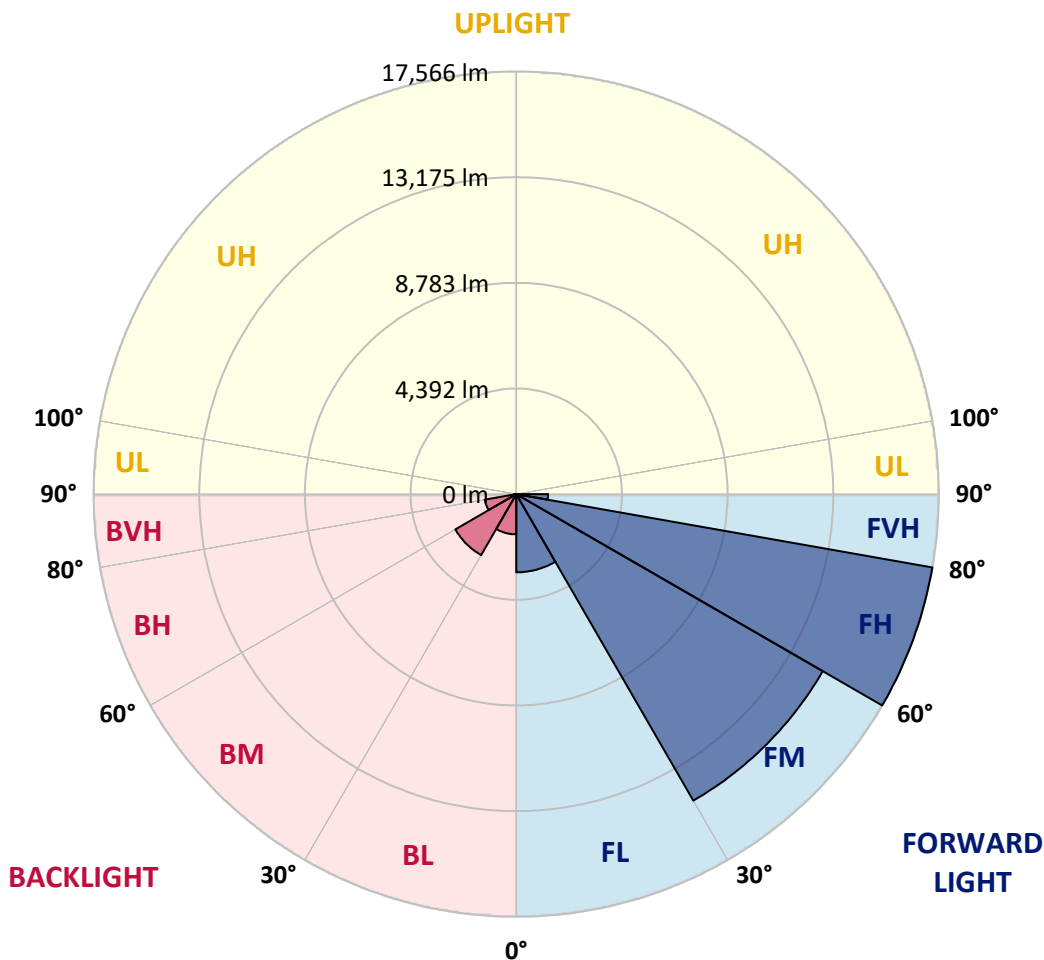
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3249.4	7.6			
FM (30°-60°)	14710.7	34.3			
FH (60°-80°)	17566.4	41.0			G5
FVH (80°-90°)	1326.1	3.1			G5
BL (0°-30°)	1671.6	3.9	B3/2500		
BM (30°-60°)	2925.4	6.8	B3/5000		
BH (60°-80°)	1325.7	3.1	B3/2500		G3/2500
BVH (80°-90°)	105.0	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





REPORT NUMBER: P480913
 CATALOG NUMBER: IFLD-L-SA7C-740-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	7815.3	7733.7	7748.1	7719.3	7748.1	7738.5	7724.1	7652.2	7724.1	7652.2	7633.0
5°	7709.7	7709.7	7757.7	7685.7	7695.3	7647.4	7695.3	7642.6	7594.6	7474.6	7441.1
7.5°	7676.1	7671.3	7676.1	7575.4	7623.4	7594.6	7546.6	7489.0	7393.1	7316.3	7206.0
10°	7445.9	7493.8	7441.1	7469.8	7508.2	7421.9	7417.1	7402.7	7359.5	7258.8	7191.6
12.5°	7321.1	7402.7	7431.5	7407.5	7441.1	7450.7	7421.9	7402.7	7349.9	7282.7	7090.8
15°	7373.9	7277.9	7359.5	7517.8	7484.2	7508.2	7513.0	7493.8	7469.8	7345.1	7220.4
17.5°	7388.3	7330.7	7503.4	7537.0	7580.2	7666.5	7609.0	7604.2	7513.0	7426.7	7244.4
20°	7421.9	7397.9	7537.0	7714.5	7719.3	7733.7	7762.5	7690.5	7642.6	7493.8	7215.6
22.5°	7546.6	7628.2	7757.7	7834.5	7877.6	7887.2	7887.2	7743.3	7690.5	7570.6	7349.9
25°	7920.8	7834.5	8016.8	8107.9	8045.6	8031.2	7997.6	7868.0	7810.5	7704.9	7412.3
27.5°	8194.3	8189.5	8295.0	8419.8	8251.9	8285.4	8165.5	8127.1	7997.6	7940.0	7522.6
30°	8568.5	8674.0	8669.2	8707.6	8486.9	8525.3	8371.8	8299.8	8227.9	8261.4	7848.9
32.5°	9048.3	9009.9	9072.2	9043.5	8822.8	8856.3	8674.0	8563.7	8587.7	8688.4	8295.0
35°	9355.3	9316.9	9340.9	9340.9	9273.7	9235.4	9158.6	9014.7	9129.8	9316.9	8794.0
37.5°	9686.3	9734.3	9873.4	9844.7	9758.3	9758.3	9748.7	9647.9	9796.7	10257.2	9590.4
40°	9979.0	10108.5	10194.9	10252.4	10353.2	10353.2	10434.8	10377.2	10645.8	11384.7	10564.3
42.5°	10286.0	10290.8	10761.0	10804.2	11029.7	11125.6	11188.0	11236.0	11739.7	12564.9	11605.4
45°	10679.4	10703.4	11116.0	11447.0	11797.3	11830.9	12065.9	12224.3	12843.1	13855.4	12737.6
47.5°	11197.6	11168.8	11610.2	12137.9	12574.5	12804.8	13087.8	13260.5	14023.4	15256.3	13975.4
50°	11878.8	11792.5	12046.7	12876.7	13390.1	13644.3	14148.1	14435.9	15328.3	16594.9	14824.5
52.5°	12708.8	12564.9	12766.4	13673.1	14248.8	14762.2	15241.9	15563.4	16494.1	17631.1	15453.0
55°	13586.8	13289.3	13346.9	14517.5	15347.5	15832.0	16489.3	16825.1	17775.1	18561.9	16081.5
57.5°	14455.1	14268.0	14152.9	15328.3	16657.2	17122.6	17727.1	18163.7	18969.7	19387.1	16614.0
60°	15184.4	15136.4	14949.3	16585.3	18043.7	18441.9	19075.2	19343.9	19953.2	20149.9	16623.6
62.5°	15784.1	15620.9	15918.4	17597.6	19454.2	19905.2	20600.8	20624.8	21056.6	20624.8	16134.3
65°	16254.2	16263.8	16738.8	18820.9	21085.4	21752.3	22313.6	22251.2	21973.0	20341.8	14978.1
67.5°	16681.2	16863.5	17559.2	20164.3	23181.9	23810.4	24434.1	23608.9	22222.4	19017.6	12718.4
70°	17017.0	17199.4	18667.4	21800.2	25652.7	26573.8	26713.0	24146.3	21075.8	16110.3	9595.2
72.5°	16978.7	17309.7	19295.9	23105.2	27845.2	28641.6	27519.0	22635.0	17559.2	11231.2	5598.8
73°	17060.2	17223.3	19243.1	23469.8	28512.1	28910.3	27144.8	22160.1	16561.3	10074.9	4735.2
75°	15486.6	16038.3	18288.4	22874.9	27797.2	27725.3	24995.4	18465.9	11773.3	5291.7	2293.2
77.5°	11456.6	11806.9	14412.0	18811.3	22817.3	22356.8	18854.5	11802.1	5589.2	1962.2	1237.8
80°	5598.8	5872.2	7637.8	10861.7	14920.5	14958.9	11701.3	6140.9	2394.0	1108.2	844.4
82.5°	2797.0	2960.1	3670.2	4773.6	7340.3	7690.5	5934.6	3492.6	1482.5	628.5	479.8
85°	1827.9	1943.0	2259.7	2336.4	3113.6	3286.3	2763.4	2725.0	964.3	340.6	388.6
87.5°	1213.8	1233.0	1386.5	1180.2	1247.4	1199.4	1333.7	1717.5	283.1	143.9	105.5
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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 CATALOG NUMBER: IFLD-L-SA7C-740-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0	7633.0
2.5°	7609.0	7541.8	7469.8	7369.1	7297.1	7186.8	7086.0	7042.9	7033.3	7038.1	6990.1
5°	7412.3	7316.3	7172.4	6966.1	6846.2	6663.8	6510.3	6428.8	6342.4	6356.8	6318.4
7.5°	7138.8	7033.3	6812.6	6572.7	6275.2	6016.2	5872.2	5670.7	5555.6	5469.3	5517.2
10°	7052.5	6870.1	6539.1	6208.1	5747.5	5406.9	5075.8	4845.6	4687.2	4533.7	4600.9
12.5°	7009.3	6827.0	6366.4	5877.0	5282.1	4764.0	4298.6	4015.6	3790.1	3655.8	3708.5
15°	6970.9	6745.4	6203.3	5512.4	4845.6	4164.3	3641.4	3267.2	3051.3	2921.7	2936.1
17.5°	7023.7	6702.2	5963.4	5157.4	4365.8	3636.6	3056.1	2667.5	2446.8	2365.2	2346.0
20°	6970.9	6654.3	5728.3	4802.4	3886.0	3132.8	2576.3	2254.9	2101.3	2034.2	2019.8
22.5°	6990.1	6539.1	5483.6	4409.0	3439.9	2710.6	2254.9	2010.2	1890.2	1856.7	1866.3
25°	7081.2	6471.9	5239.0	3977.2	2998.5	2398.8	2048.6	1861.5	1775.1	1741.5	1751.1
27.5°	7148.4	6529.5	5018.3	3569.4	2624.3	2120.5	1875.9	1751.1	1693.5	1669.6	1664.8
30°	7316.3	6563.1	4802.4	3204.8	2317.2	1938.2	1755.9	1655.2	1616.8	1602.4	1597.6
32.5°	7565.8	6625.5	4552.9	2869.0	2091.7	1765.5	1660.0	1573.6	1564.0	1549.6	1554.4
35°	7973.6	6841.4	4274.7	2581.1	1875.9	1650.4	1559.2	1501.6	1501.6	1501.6	1516.0
37.5°	8558.9	7143.6	4025.2	2307.6	1736.7	1549.6	1472.9	1453.7	1444.1	1458.5	1468.1
40°	9312.1	7508.2	3823.7	2091.7	1616.8	1482.5	1415.3	1405.7	1400.9	1396.1	1405.7
42.5°	10137.3	7973.6	3651.0	1923.8	1530.4	1410.5	1362.5	1352.9	1333.7	1343.3	1357.7
45°	10957.7	8549.3	3497.4	1789.5	1472.9	1372.1	1304.9	1300.1	1290.6	1285.8	1309.7
47.5°	11869.2	9115.4	3449.5	1707.9	1429.7	1314.5	1266.6	1261.8	1233.0	1228.2	1247.4
50°	12579.3	9532.8	3502.2	1669.6	1367.3	1271.4	1237.8	1213.8	1189.8	1165.8	1165.8
52.5°	13068.6	9820.7	3540.6	1640.8	1333.7	1213.8	1170.6	1161.0	1137.0	1113.0	1103.4
55°	13510.0	9993.4	3550.2	1645.6	1300.1	1146.6	1117.8	1113.0	1098.6	1060.3	1050.7
57.5°	13658.7	9921.4	3358.3	1602.4	1281.0	1103.4	1065.1	1074.7	1055.5	1021.9	1017.1
60°	13644.3	9422.5	2921.7	1544.8	1237.8	1055.5	1007.5	1036.3	1036.3	997.9	993.1
62.5°	12814.4	8271.0	2389.2	1434.5	1189.8	1007.5	954.7	997.9	1012.3	988.3	983.5
65°	11092.0	6735.8	1995.8	1324.1	1117.8	954.7	901.9	949.9	973.9	964.3	959.5
67.5°	9177.8	5152.6	1660.0	1180.2	1026.7	882.8	839.6	873.2	887.6	892.4	897.1
70°	6486.3	3430.3	1386.5	1021.9	901.9	806.0	758.0	762.8	758.0	772.4	772.4
72.5°	3526.2	1976.6	1127.4	868.4	777.2	700.4	666.9	642.9	642.9	638.1	638.1
73°	3017.7	1775.1	1074.7	844.4	743.6	681.3	642.9	623.7	623.7	618.9	614.1
75°	1693.5	1300.1	921.1	724.4	642.9	594.9	566.1	537.3	532.5	532.5	532.5
77.5°	1113.0	1012.3	734.0	580.5	518.1	475.0	465.4	436.6	436.6	436.6	431.8
80°	834.8	796.4	566.1	441.4	398.2	364.6	355.0	335.8	331.0	311.8	316.6
82.5°	556.5	628.5	412.6	311.8	268.7	249.5	249.5	244.7	230.3	206.3	206.3
85°	441.4	513.3	297.5	191.9	158.3	134.3	139.1	134.3	129.5	105.5	100.7
87.5°	81.6	206.3	86.4	52.8	38.4	24.0	24.0	14.4	9.6	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)