

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: P480864

Luminaire Tested: **IFLD-S-SA6C-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480864  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-735-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

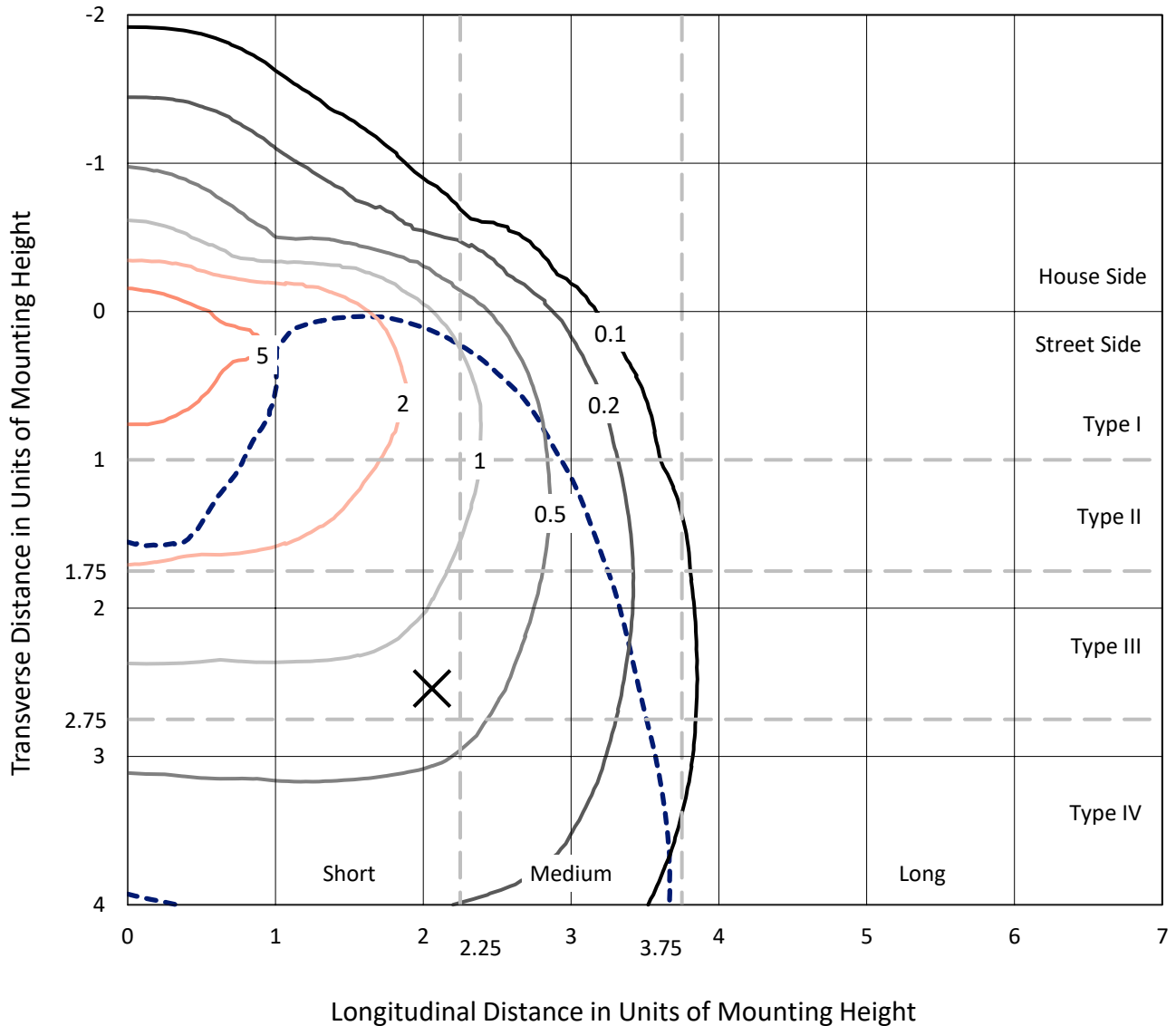
Lumens per Lamp: N/A  
Luminaire Lumens: 39641.6 lumens  
Efficiency: N/A  
Efficacy: 123.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5  
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

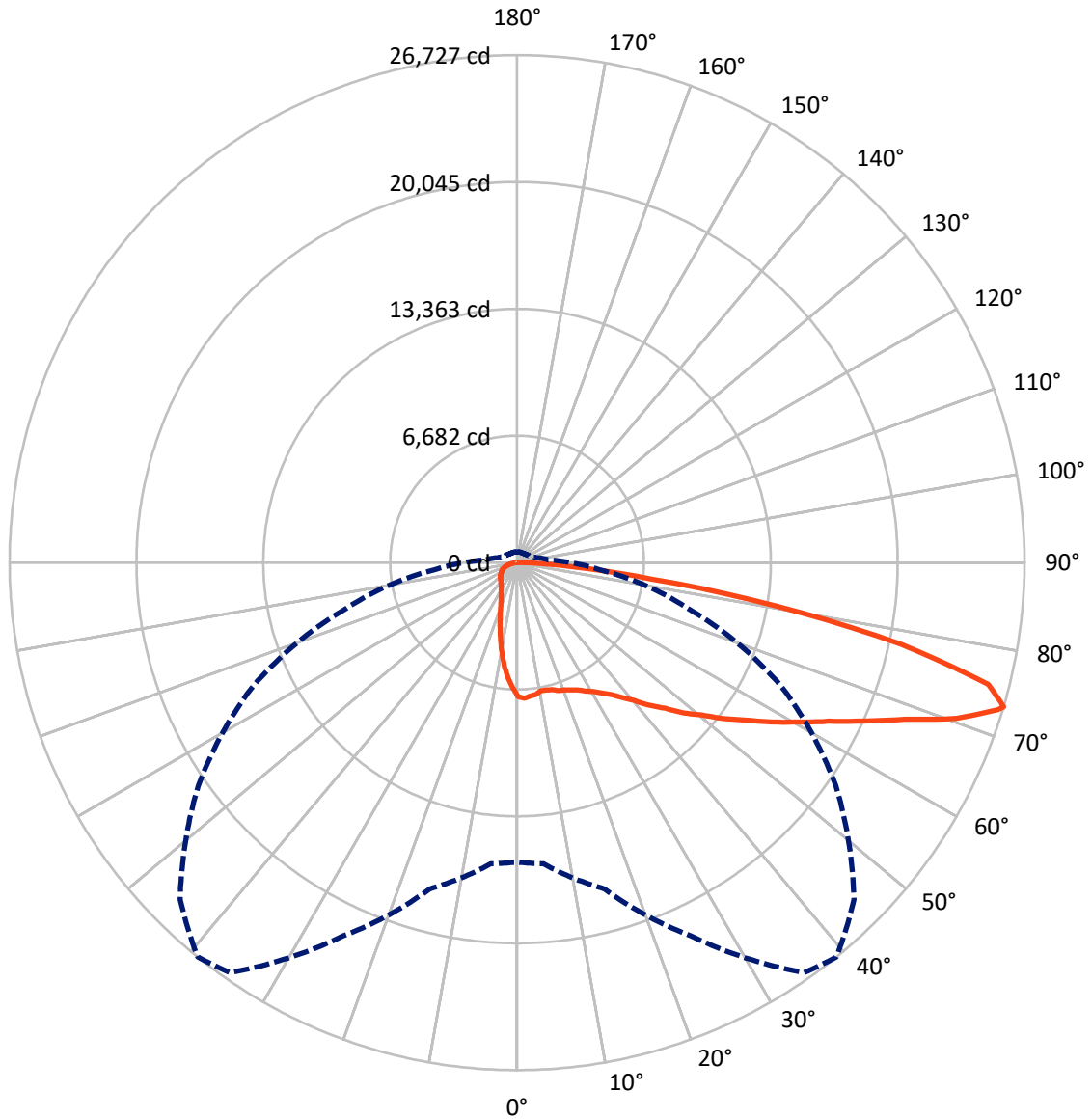
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P480864  
CATALOG NUMBER: IFLD-S-SA6C-735-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
<b>House Side</b>	Lumens	5572.5	0.0	5572.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	34069.1	0.0	34069.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	39641.6	0.0	39641.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	612.6	1.5
10°-20°	1557.2	3.9
20°-30°	2379.6	6.0
30°-40°	3469.5	8.8
40°-50°	5242.8	13.2
50°-60°	7591.8	19.2
60°-70°	9645.8	24.3
70°-80°	7819.4	19.7
80°-90°	1323.0	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°	39641.6	100.0
0°-180°	39641.6	100.0

**Coefficient of Utilization**



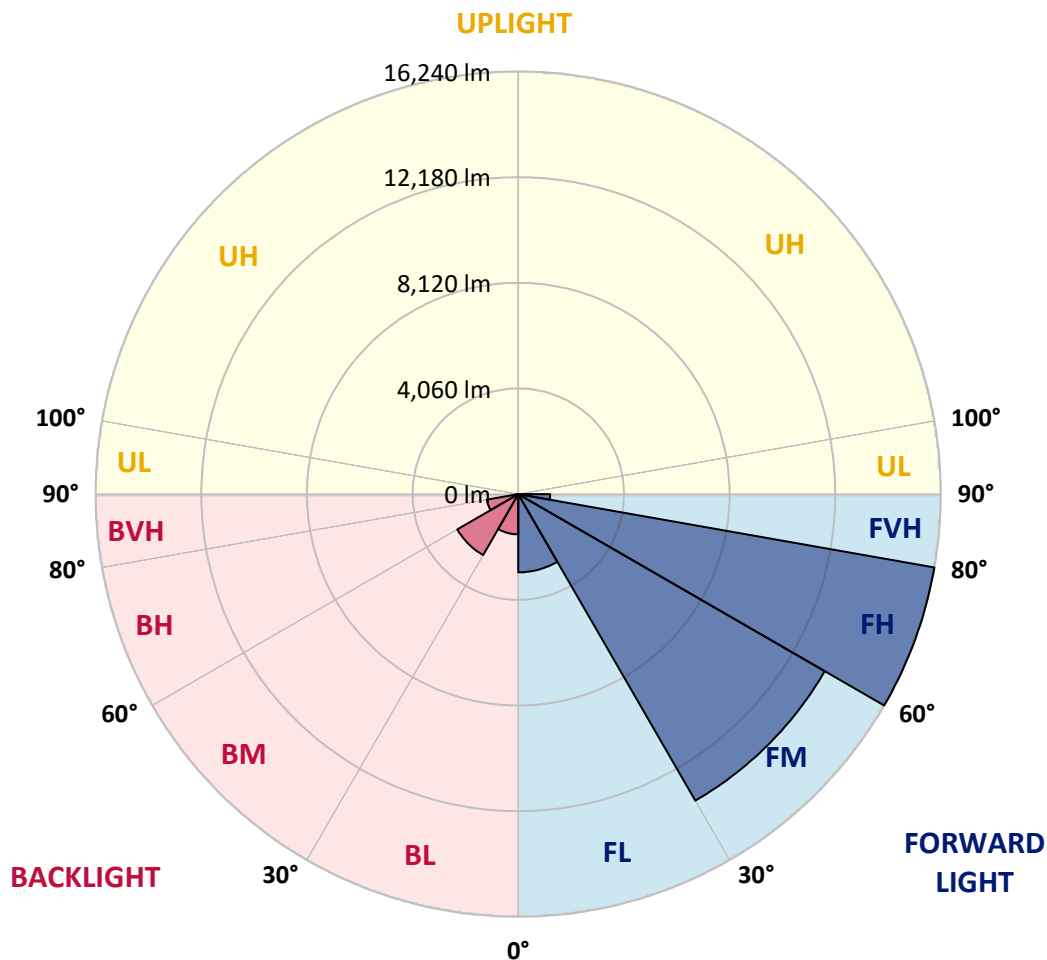
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 CATALOG NUMBER: IFLD-S-SA6C-735-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3004.0	7.6			
FM (30°-60°)	13599.6	34.3			
FH (60°-80°)	16239.6	41.0			G5
FVH (80°-90°)	1225.9	3.1			G5
BL (0°-30°)	1545.4	3.9	B3/2500		
BM (30°-60°)	2704.5	6.8	B3/5000		
BH (60°-80°)	1225.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	97.1	0.2			G1/100
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°	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4
2.5°	7225.0	7149.6	7162.9	7136.3	7162.9	7154.0	7140.7	7074.2	7140.7	7074.2	7056.4
5°	7127.4	7127.4	7171.8	7105.2	7114.1	7069.8	7114.1	7065.3	7021.0	6910.1	6879.0
7.5°	7096.4	7091.9	7096.4	7003.2	7047.6	7021.0	6976.6	6923.4	6834.7	6763.7	6661.7
10°	6883.5	6927.8	6879.0	6905.6	6941.1	6861.3	6856.9	6843.6	6803.6	6710.5	6648.4
12.5°	6768.2	6843.6	6870.2	6848.0	6879.0	6887.9	6861.3	6843.6	6794.8	6732.7	6555.3
15°	6816.9	6728.2	6803.6	6950.0	6919.0	6941.1	6945.6	6927.8	6905.6	6790.3	6675.0
17.5°	6830.3	6777.0	6936.7	6967.7	7007.7	7087.5	7034.3	7029.8	6945.6	6865.7	6697.2
20°	6861.3	6839.1	6967.7	7131.8	7136.3	7149.6	7176.2	7109.7	7065.3	6927.8	6670.6
22.5°	6976.6	7052.0	7171.8	7242.7	7282.6	7291.5	7291.5	7158.5	7109.7	6998.8	6794.8
25°	7322.6	7242.7	7411.3	7495.5	7437.9	7424.6	7393.5	7273.8	7220.6	7123.0	6852.4
27.5°	7575.4	7570.9	7668.5	7783.8	7628.6	7659.6	7548.8	7513.3	7393.5	7340.3	6954.4
30°	7921.3	8018.9	8014.5	8049.9	7845.9	7881.4	7739.5	7672.9	7606.4	7637.5	7256.0
32.5°	8364.8	8329.4	8387.0	8360.4	8156.4	8187.4	8018.9	7916.9	7939.1	8032.2	7668.5
35°	8648.7	8613.2	8635.4	8635.4	8573.3	8537.8	8466.8	8333.8	8440.2	8613.2	8129.8
37.5°	8954.7	8999.1	9127.7	9101.1	9021.3	9021.3	9012.4	8919.2	9056.7	9482.5	8866.0
40°	9225.3	9345.0	9424.9	9478.1	9571.2	9571.2	9646.6	9593.4	9841.8	10524.8	9766.4
42.5°	9509.1	9513.6	9948.2	9988.1	10196.6	10285.3	10343.0	10387.3	10853.0	11615.9	10728.8
45°	9872.8	9895.0	10276.4	10582.5	10906.2	10937.3	11154.6	11301.0	11873.1	12808.9	11775.5
47.5°	10351.8	10325.2	10733.3	11221.1	11624.7	11837.6	12099.3	12259.0	12964.2	14104.0	12919.8
50°	10981.6	10901.8	11136.9	11904.2	12378.7	12613.8	13079.5	13345.6	14170.6	15341.5	13704.9
52.5°	11748.9	11615.9	11802.1	12640.4	13172.6	13647.2	14090.7	14387.9	15248.3	16299.5	14285.9
55°	12560.6	12285.6	12338.8	13421.0	14188.3	14636.3	15243.9	15554.3	16432.5	17159.9	14866.9
57.5°	13363.3	13190.4	13083.9	14170.6	15399.1	15829.3	16388.2	16791.8	17536.9	17922.8	15359.2
60°	14037.5	13993.1	13820.2	15332.6	16680.9	17049.0	17634.5	17882.8	18446.1	18628.0	15368.1
62.5°	14591.9	14441.1	14716.1	16268.4	17984.8	18401.8	19044.9	19067.0	19466.2	19067.0	14915.7
65°	15026.6	15035.4	15474.5	17399.4	19492.8	20109.3	20628.2	20570.6	20313.3	18805.4	13846.8
67.5°	15421.3	15589.8	16232.9	18641.3	21431.0	22012.0	22588.6	21825.8	20544.0	17581.2	11757.8
70°	15731.8	15900.3	17257.5	20153.7	23715.2	24566.7	24695.3	22322.5	19484.0	14893.5	8870.5
72.5°	15696.3	16002.3	17838.5	21360.1	25742.1	26478.3	25440.5	20925.4	16232.9	10382.9	5175.9
73°	15771.7	15922.5	17789.7	21697.1	26358.6	26726.7	25094.5	20486.3	15310.4	9314.0	4377.6
75°	14316.9	14827.0	16907.1	21147.2	25697.7	25631.2	23107.5	17071.2	10884.0	4892.1	2120.0
77.5°	10591.3	10915.1	13323.4	17390.5	21093.9	20668.2	17430.4	10910.7	5167.0	1814.0	1144.3
80°	5175.9	5428.7	7060.9	10041.4	13793.6	13829.0	10817.5	5677.1	2213.2	1024.5	780.6
82.5°	2585.7	2736.5	3392.9	4413.1	6785.9	7109.7	5486.4	3228.8	1370.5	581.0	443.5
85°	1689.8	1796.3	2089.0	2160.0	2878.5	3038.1	2554.7	2519.2	891.5	314.9	359.3
87.5°	1122.1	1139.9	1281.8	1091.1	1153.2	1108.8	1233.0	1587.8	261.7	133.1	97.6
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°	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4	7056.4
2.5°	7034.3	6972.2	6905.6	6812.5	6746.0	6644.0	6550.8	6510.9	6502.0	6506.5	6462.1
5°	6852.4	6763.7	6630.7	6440.0	6329.1	6160.5	6018.6	5943.2	5863.4	5876.7	5841.2
7.5°	6599.6	6502.0	6298.0	6076.3	5801.3	5561.8	5428.7	5242.4	5136.0	5056.2	5100.5
10°	6519.8	6351.2	6045.2	5739.2	5313.4	4998.5	4692.5	4479.6	4333.2	4191.3	4253.4
12.5°	6479.9	6311.3	5885.5	5433.2	4883.2	4404.2	3974.0	3712.3	3503.8	3379.6	3428.4
15°	6444.4	6235.9	5734.7	5096.1	4479.6	3849.8	3366.3	3020.4	2820.8	2701.1	2714.4
17.5°	6493.2	6196.0	5513.0	4767.9	4036.1	3361.9	2825.2	2466.0	2262.0	2186.6	2168.8
20°	6444.4	6151.7	5295.7	4439.7	3592.5	2896.2	2381.7	2084.6	1942.6	1880.5	1867.2
22.5°	6462.1	6045.2	5069.5	4076.0	3180.1	2505.9	2084.6	1858.4	1747.5	1716.4	1725.3
25°	6546.4	5983.1	4843.3	3676.8	2772.0	2217.6	1893.8	1720.9	1641.0	1610.0	1618.9
27.5°	6608.5	6036.3	4639.2	3299.8	2426.1	1960.4	1734.2	1618.9	1565.6	1543.5	1539.0
30°	6763.7	6067.4	4439.7	2962.7	2142.2	1791.8	1623.3	1530.2	1494.7	1481.4	1476.9
32.5°	6994.4	6125.0	4209.0	2652.3	1933.8	1632.2	1534.6	1454.8	1445.9	1432.6	1437.0
35°	7371.3	6324.6	3951.8	2386.2	1734.2	1525.7	1441.4	1388.2	1388.2	1388.2	1401.5
37.5°	7912.4	6604.1	3721.2	2133.3	1605.6	1432.6	1361.6	1343.9	1335.0	1348.3	1357.2
40°	8608.8	6941.1	3534.9	1933.8	1494.7	1370.5	1308.4	1299.5	1295.1	1290.7	1299.5
42.5°	9371.6	7371.3	3375.2	1778.5	1414.8	1304.0	1259.6	1250.7	1233.0	1241.9	1255.2
45°	10130.1	7903.6	3233.3	1654.3	1361.6	1268.5	1206.4	1201.9	1193.1	1188.6	1210.8
47.5°	10972.8	8426.9	3188.9	1578.9	1321.7	1215.3	1170.9	1166.5	1139.9	1135.4	1153.2
50°	11629.2	8812.8	3237.7	1543.5	1264.0	1175.3	1144.3	1122.1	1099.9	1077.8	1077.8
52.5°	12081.6	9078.9	3273.2	1516.8	1233.0	1122.1	1082.2	1073.3	1051.1	1029.0	1020.1
55°	12489.6	9238.6	3282.1	1521.3	1201.9	1060.0	1033.4	1029.0	1015.7	980.2	971.3
57.5°	12627.1	9172.1	3104.7	1481.4	1184.2	1020.1	984.6	993.5	975.8	944.7	940.3
60°	12613.8	8710.8	2701.1	1428.1	1144.3	975.8	931.4	958.0	958.0	922.5	918.1
62.5°	11846.5	7646.3	2208.7	1326.1	1099.9	931.4	882.6	922.5	935.8	913.7	909.2
65°	10254.2	6227.1	1845.1	1224.1	1033.4	882.6	833.8	878.2	900.4	891.5	887.0
67.5°	8484.6	4763.4	1534.6	1091.1	949.1	816.1	776.2	807.2	820.5	825.0	829.4
70°	5996.4	3171.2	1281.8	944.7	833.8	745.1	700.8	705.2	700.8	714.1	714.1
72.5°	3259.9	1827.3	1042.3	802.8	718.5	647.5	616.5	594.3	594.3	589.9	589.9
73°	2789.8	1641.0	993.5	780.6	687.5	629.8	594.3	576.6	576.6	572.1	567.7
75°	1565.6	1201.9	851.6	669.7	594.3	550.0	523.4	496.7	492.3	492.3	492.3
77.5°	1029.0	935.8	678.6	536.7	479.0	439.1	430.2	403.6	403.6	403.6	399.2
80°	771.7	736.2	523.4	408.0	368.1	337.1	328.2	310.5	306.0	288.3	292.7
82.5°	514.5	581.0	381.4	288.3	248.4	230.6	230.6	226.2	212.9	190.7	190.7
85°	408.0	474.6	275.0	177.4	146.4	124.2	128.6	124.2	119.8	97.6	93.1
87.5°	75.4	190.7	79.8	48.8	35.5	22.2	22.2	13.3	8.9	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)