

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: P481036

Luminaire Tested: **IFLD-L-SA8D-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481036
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

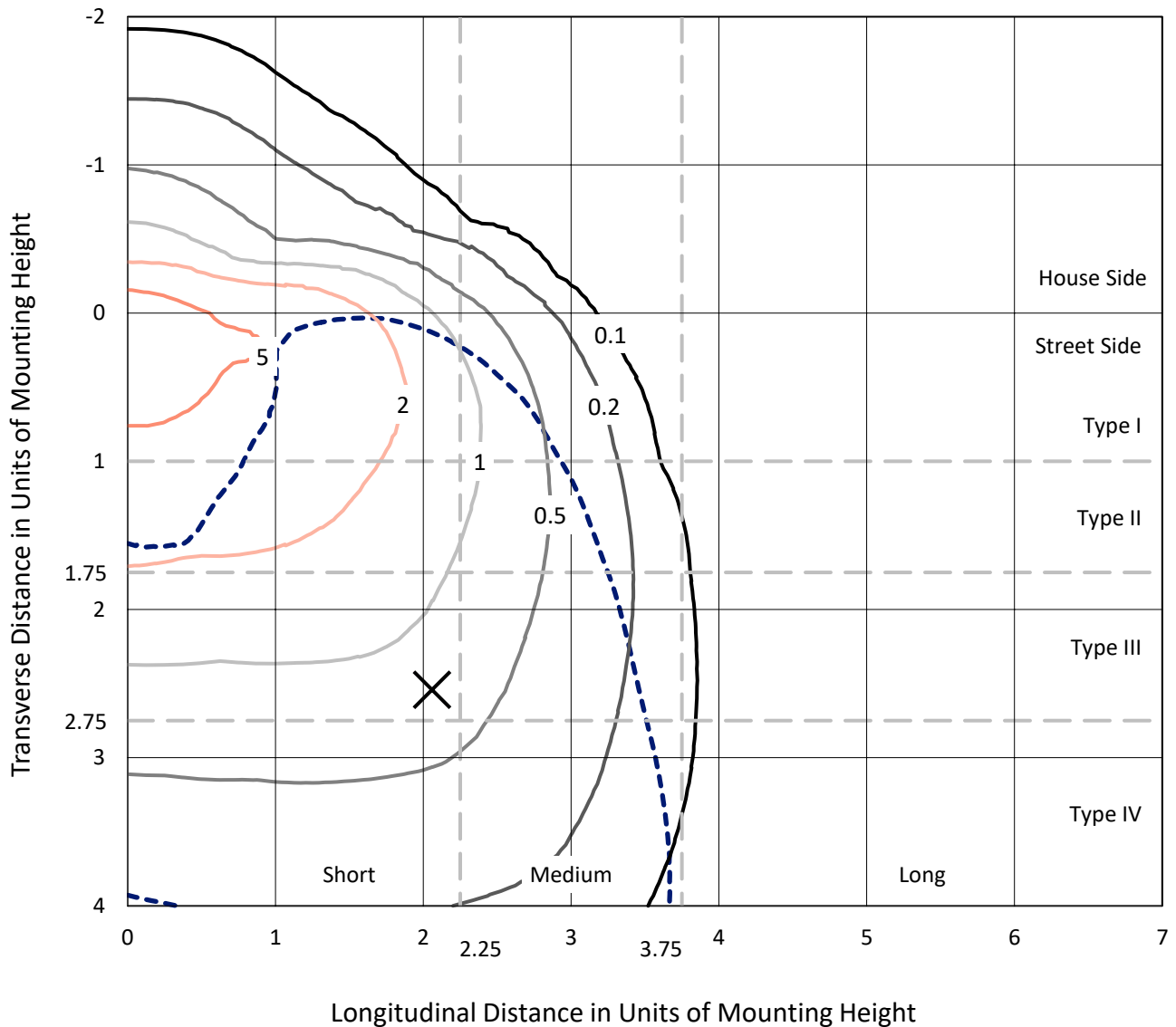
Lumens per Lamp: N/A
Luminaire Lumens: 39639.2 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

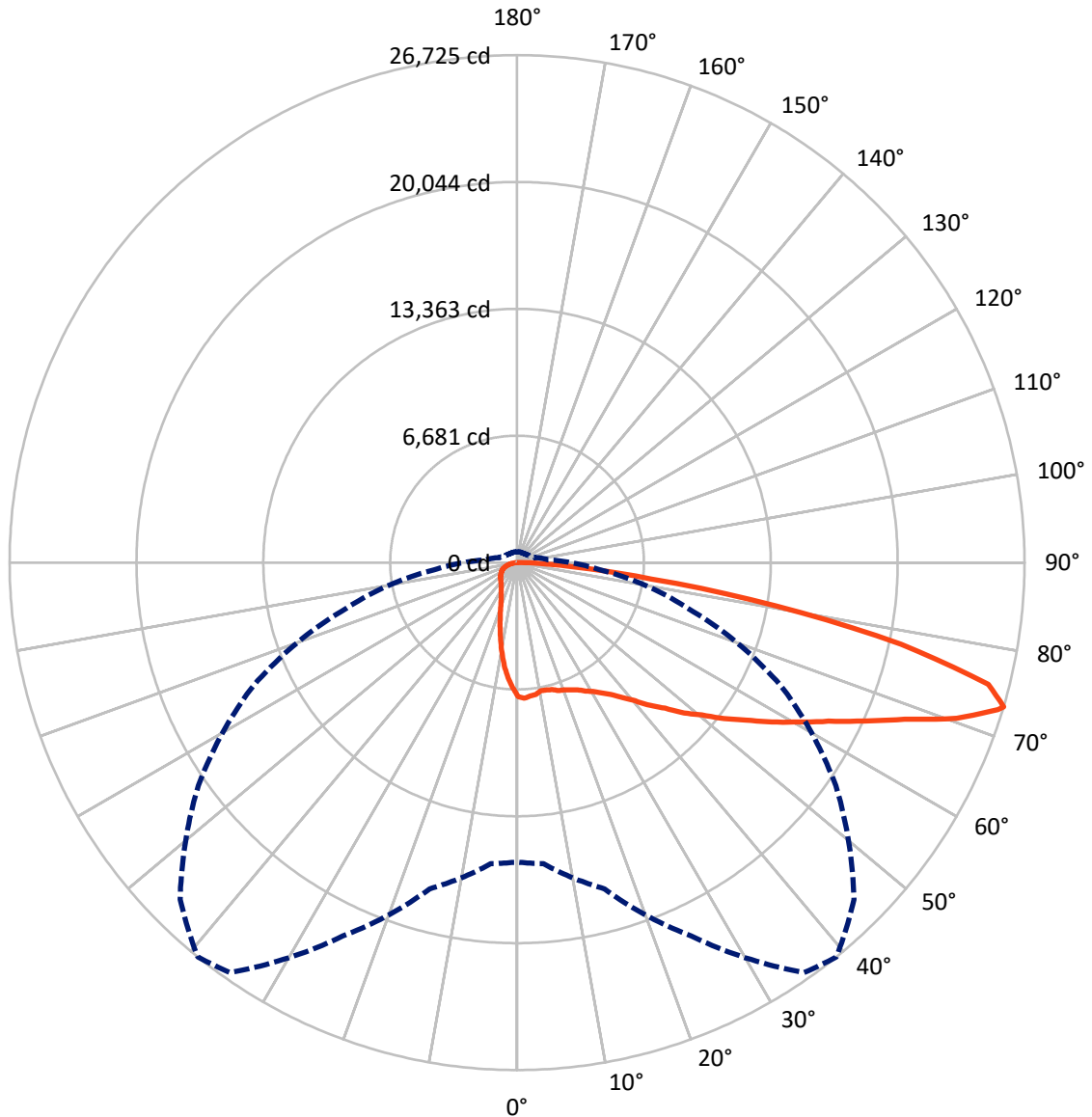
✕ Max cd
 - - - 1/2 Max cd



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

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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	5572.2	0.0	5572.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	34067.1	0.0	34067.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	39639.2	0.0	39639.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.5	1.5
10°-20°	1557.1	3.9
20°-30°	2379.4	6.0
30°-40°	3469.3	8.8
40°-50°	5242.5	13.2
50°-60°	7591.4	19.2
60°-70°	9645.2	24.3
70°-80°	7818.9	19.7
80°-90°	1322.9	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°	39639.2	100.0
0°-180°	39639.2	100.0

Coefficient of Utilization



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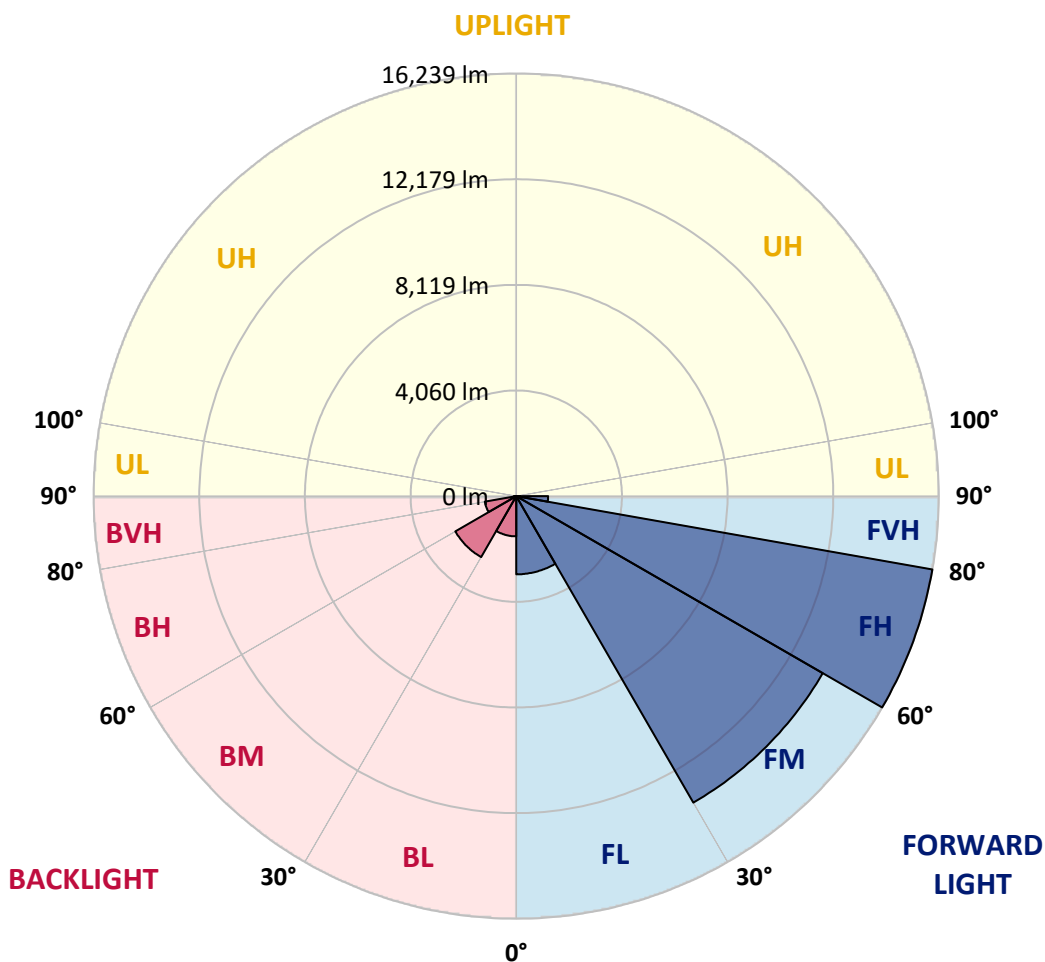
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3003.8	7.6			
FM (30°-60°)	13598.8	34.3			
FH (60°-80°)	16238.6	41.0			G5
FVH (80°-90°)	1225.9	3.1			G5
BL (0°-30°)	1545.3	3.9	B3/2500		
BM (30°-60°)	2704.3	6.8	B3/5000		
BH (60°-80°)	1225.5	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°	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0
2.5°	7224.6	7149.2	7162.5	7135.9	7162.5	7153.6	7140.3	7073.8	7140.3	7073.8	7056.0
5°	7127.0	7127.0	7171.3	7104.8	7113.7	7069.3	7113.7	7064.9	7020.5	6909.7	6878.6
7.5°	7095.9	7091.5	7095.9	7002.8	7047.2	7020.5	6976.2	6923.0	6834.3	6763.3	6661.3
10°	6883.1	6927.4	6878.6	6905.2	6940.7	6860.9	6856.5	6843.1	6803.2	6710.1	6648.0
12.5°	6767.8	6843.1	6869.8	6847.6	6878.6	6887.5	6860.9	6843.1	6794.4	6732.3	6554.9
15°	6816.5	6727.8	6803.2	6949.6	6918.5	6940.7	6945.1	6927.4	6905.2	6789.9	6674.6
17.5°	6829.8	6776.6	6936.3	6967.3	7007.2	7087.1	7033.8	7029.4	6945.1	6865.3	6696.8
20°	6860.9	6838.7	6967.3	7131.4	7135.9	7149.2	7175.8	7109.2	7064.9	6927.4	6670.2
22.5°	6976.2	7051.6	7171.3	7242.3	7282.2	7291.1	7291.1	7158.0	7109.2	6998.4	6794.4
25°	7322.1	7242.3	7410.8	7495.1	7437.4	7424.1	7393.1	7273.3	7220.1	7122.5	6852.0
27.5°	7574.9	7570.5	7668.0	7783.4	7628.1	7659.2	7548.3	7512.8	7393.1	7339.9	6954.0
30°	7920.8	8018.4	8014.0	8049.5	7845.4	7880.9	7739.0	7672.5	7606.0	7637.0	7255.6
32.5°	8364.3	8328.9	8386.5	8359.9	8155.9	8186.9	8018.4	7916.4	7938.6	8031.7	7668.0
35°	8648.2	8612.7	8634.9	8634.9	8572.8	8537.3	8466.3	8333.3	8439.7	8612.7	8129.3
37.5°	8954.2	8998.5	9127.2	9100.5	9020.7	9020.7	9011.8	8918.7	9056.2	9481.9	8865.5
40°	9224.7	9344.5	9424.3	9477.5	9570.6	9570.6	9646.0	9592.8	9841.2	10524.2	9765.8
42.5°	9508.6	9513.0	9947.6	9987.5	10196.0	10284.7	10342.3	10386.7	10852.4	11615.2	10728.2
45°	9872.2	9894.4	10275.8	10581.8	10905.6	10936.6	11153.9	11300.3	11872.4	12808.2	11774.8
47.5°	10351.2	10324.6	10732.6	11220.5	11624.0	11836.9	12098.6	12258.2	12963.4	14103.2	12919.0
50°	10981.0	10901.1	11136.2	11903.4	12378.0	12613.0	13078.7	13344.8	14169.7	15340.5	13704.0
52.5°	11748.2	11615.2	11801.4	12639.6	13171.8	13646.4	14089.9	14387.0	15247.4	16298.5	14285.0
55°	12559.8	12284.8	12338.1	13420.2	14187.4	14635.4	15243.0	15553.4	16431.5	17158.9	14866.0
57.5°	13362.5	13189.6	13083.1	14169.7	15398.2	15828.4	16387.2	16790.8	17535.8	17921.7	15358.3
60°	14036.7	13992.3	13819.3	15331.7	16679.9	17048.0	17633.4	17881.8	18445.0	18626.8	15367.1
62.5°	14591.0	14440.2	14715.2	16267.4	17983.8	18400.7	19043.7	19065.9	19465.0	19065.9	14914.8
65°	15025.6	15034.5	15473.6	17398.4	19491.7	20108.1	20627.0	20569.4	20312.1	18804.2	13845.9
67.5°	15420.4	15588.9	16232.0	18640.1	21429.7	22010.7	22587.3	21824.4	20542.7	17580.2	11757.1
70°	15730.8	15899.3	17256.4	20152.5	23713.7	24565.3	24693.9	22321.2	19482.8	14892.6	8869.9
72.5°	15695.3	16001.3	17837.4	21358.8	25740.5	26476.7	25438.9	20924.1	16232.0	10382.2	5175.6
73°	15770.7	15921.5	17788.6	21695.8	26357.0	26725.1	25093.0	20485.1	15309.5	9313.4	4377.3
75°	14316.1	14826.1	16906.1	21145.9	25696.2	25629.6	23106.1	17070.2	10883.4	4891.8	2119.9
77.5°	10590.7	10914.4	13322.6	17389.5	21092.7	20666.9	17429.4	10910.0	5166.7	1813.9	1144.2
80°	5175.6	5428.4	7060.5	10040.8	13792.7	13828.2	10816.9	5676.8	2213.0	1024.5	780.6
82.5°	2585.6	2736.4	3392.7	4412.8	6785.5	7109.2	5486.0	3228.7	1370.4	581.0	443.5
85°	1689.7	1796.2	2088.9	2159.8	2878.3	3037.9	2554.5	2519.1	891.4	314.9	359.2
87.5°	1122.0	1139.8	1281.7	1091.0	1153.1	1108.7	1232.9	1587.7	261.7	133.0	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°	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0	7056.0
2.5°	7033.8	6971.8	6905.2	6812.1	6745.6	6643.6	6550.4	6510.5	6501.7	6506.1	6461.7
5°	6852.0	6763.3	6630.3	6439.6	6328.7	6160.2	6018.2	5942.8	5863.0	5876.3	5840.8
7.5°	6599.2	6501.7	6297.6	6075.9	5800.9	5561.4	5428.4	5242.1	5135.7	5055.9	5100.2
10°	6519.4	6350.9	6044.9	5738.8	5313.1	4998.2	4692.2	4479.3	4333.0	4191.0	4253.1
12.5°	6479.5	6310.9	5885.2	5432.8	4882.9	4403.9	3973.7	3712.1	3503.6	3379.4	3428.2
15°	6444.0	6235.6	5734.4	5095.8	4479.3	3849.5	3366.1	3020.2	2820.6	2700.9	2714.2
17.5°	6492.8	6195.6	5512.7	4767.6	4035.8	3361.7	2825.1	2465.8	2261.8	2186.4	2168.7
20°	6444.0	6151.3	5295.3	4439.4	3592.3	2896.0	2381.6	2084.4	1942.5	1880.4	1867.1
22.5°	6461.7	6044.9	5069.2	4075.7	3179.9	2505.8	2084.4	1858.2	1747.4	1716.3	1725.2
25°	6546.0	5982.8	4843.0	3676.6	2771.9	2217.5	1893.7	1720.8	1640.9	1609.9	1618.8
27.5°	6608.1	6036.0	4639.0	3299.6	2425.9	1960.3	1734.1	1618.8	1565.5	1543.4	1538.9
30°	6763.3	6067.0	4439.4	2962.6	2142.1	1791.7	1623.2	1530.1	1494.6	1481.3	1476.8
32.5°	6993.9	6124.7	4208.8	2652.1	1933.6	1632.1	1534.5	1454.7	1445.8	1432.5	1436.9
35°	7370.9	6324.3	3951.6	2386.0	1734.1	1525.6	1441.4	1388.1	1388.1	1388.1	1401.4
37.5°	7912.0	6603.7	3720.9	2133.2	1605.5	1432.5	1361.5	1343.8	1334.9	1348.2	1357.1
40°	8608.3	6940.7	3534.7	1933.6	1494.6	1370.4	1308.3	1299.4	1295.0	1290.6	1299.4
42.5°	9371.1	7370.9	3375.0	1778.4	1414.8	1303.9	1259.5	1250.7	1232.9	1241.8	1255.1
45°	10129.5	7903.1	3233.1	1654.2	1361.5	1268.4	1206.3	1201.9	1193.0	1188.6	1210.7
47.5°	10972.1	8426.4	3188.7	1578.8	1321.6	1215.2	1170.8	1166.4	1139.8	1135.4	1153.1
50°	11628.5	8812.3	3237.5	1543.4	1264.0	1175.3	1144.2	1122.0	1099.9	1077.7	1077.7
52.5°	12080.8	9078.4	3273.0	1516.8	1232.9	1122.0	1082.1	1073.3	1051.1	1028.9	1020.0
55°	12488.9	9238.0	3281.9	1521.2	1201.9	1060.0	1033.3	1028.9	1015.6	980.1	971.3
57.5°	12626.3	9171.5	3104.5	1481.3	1184.1	1020.0	984.6	993.4	975.7	944.6	940.2
60°	12613.0	8710.3	2700.9	1428.1	1144.2	975.7	931.3	958.0	958.0	922.5	918.0
62.5°	11845.8	7645.9	2208.6	1326.1	1099.9	931.3	882.6	922.5	935.8	913.6	909.2
65°	10253.6	6226.7	1844.9	1224.0	1033.3	882.6	833.8	878.1	900.3	891.4	887.0
67.5°	8484.1	4763.1	1534.5	1091.0	949.1	816.0	776.1	807.2	820.5	824.9	829.3
70°	5996.1	3171.0	1281.7	944.6	833.8	745.1	700.7	705.2	700.7	714.0	714.0
72.5°	3259.7	1827.2	1042.2	802.7	718.5	647.5	616.5	594.3	594.3	589.8	589.8
73°	2789.6	1640.9	993.4	780.6	687.4	629.8	594.3	576.5	576.5	572.1	567.7
75°	1565.5	1201.9	851.5	669.7	594.3	549.9	523.3	496.7	492.3	492.3	492.3
77.5°	1028.9	935.8	678.5	536.6	479.0	439.1	430.2	403.6	403.6	403.6	399.1
80°	771.7	736.2	523.3	408.0	368.1	337.1	328.2	310.4	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	474.5	275.0	177.4	146.4	124.2	128.6	124.2	119.7	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)