

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: P480758

Luminaire Tested: **IFLD-L-SA7D-722-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480758  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-722-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

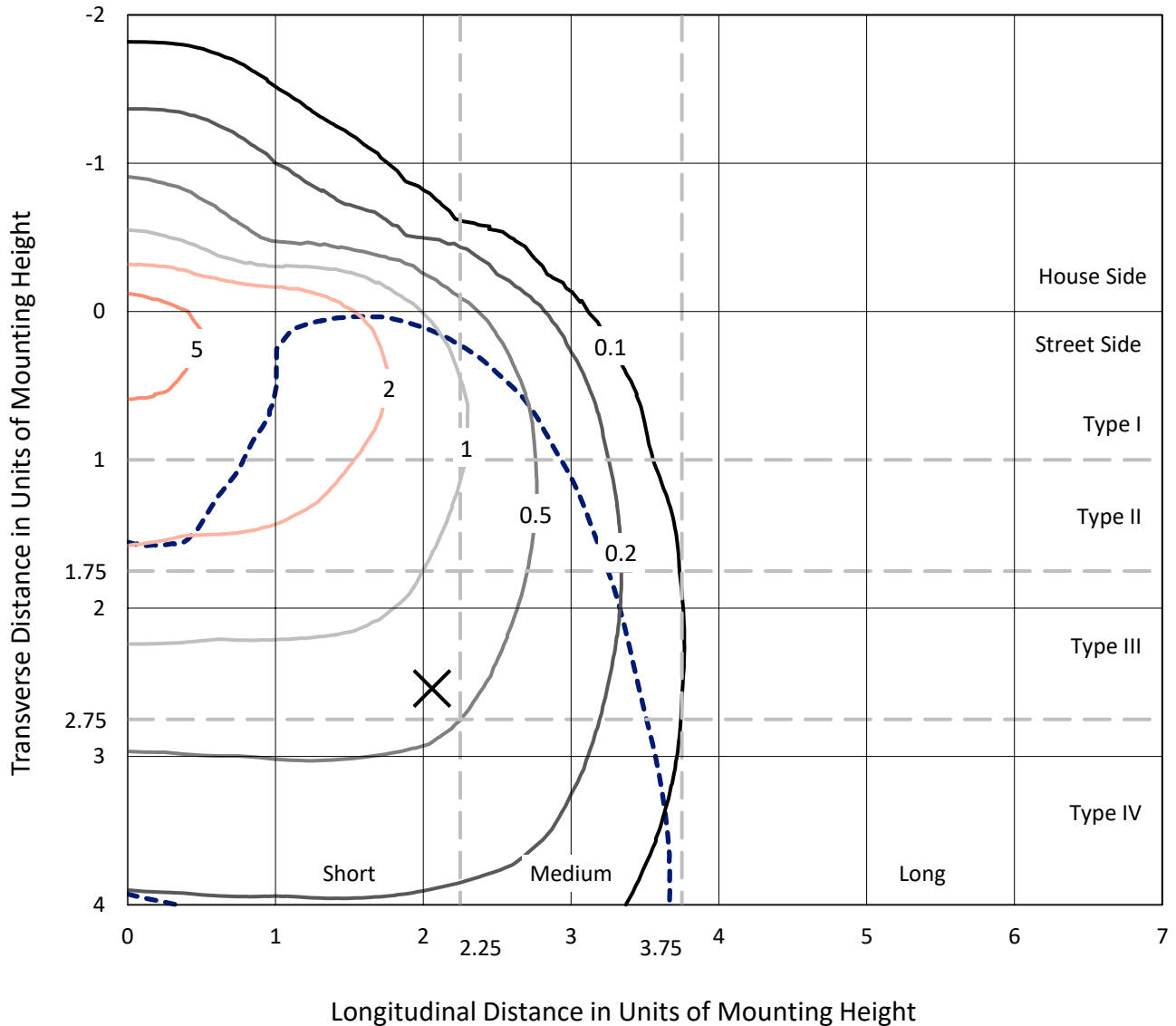
Lumens per Lamp: N/A  
Luminaire Lumens: 34755 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

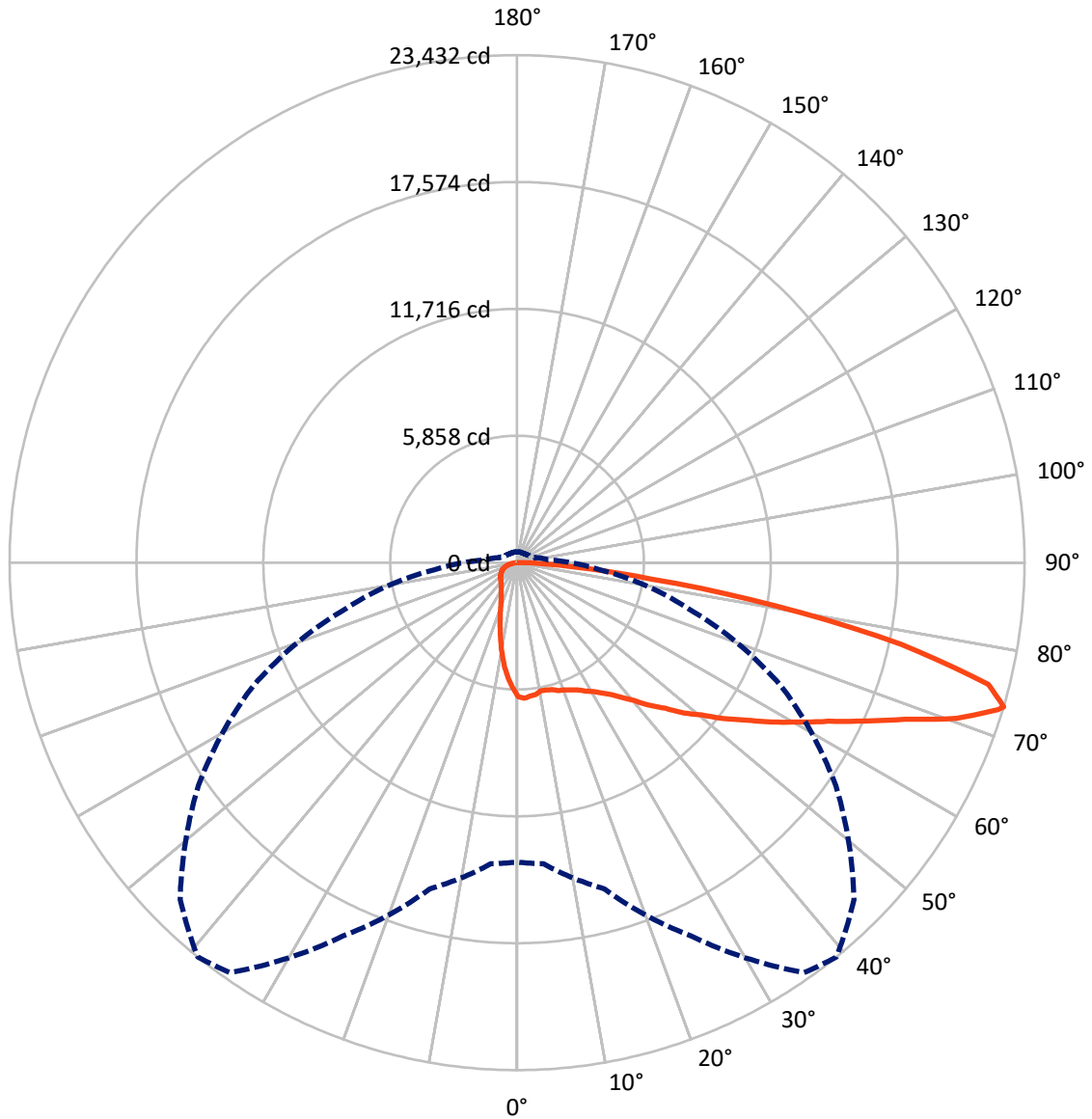
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	4885.6	0.0	4885.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29869.4	0.0	29869.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	34755.0	0.0	34755.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	537.0	1.5
10°-20°	1365.2	3.9
20°-30°	2086.2	6.0
30°-40°	3041.8	8.8
40°-50°	4596.5	13.2
50°-60°	6656.0	19.2
60°-70°	8456.8	24.3
70°-80°	6855.5	19.7
80°-90°	1159.9	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°	34755.0	100.0
0°-180°	34755.0	100.0

**Coefficient of Utilization**



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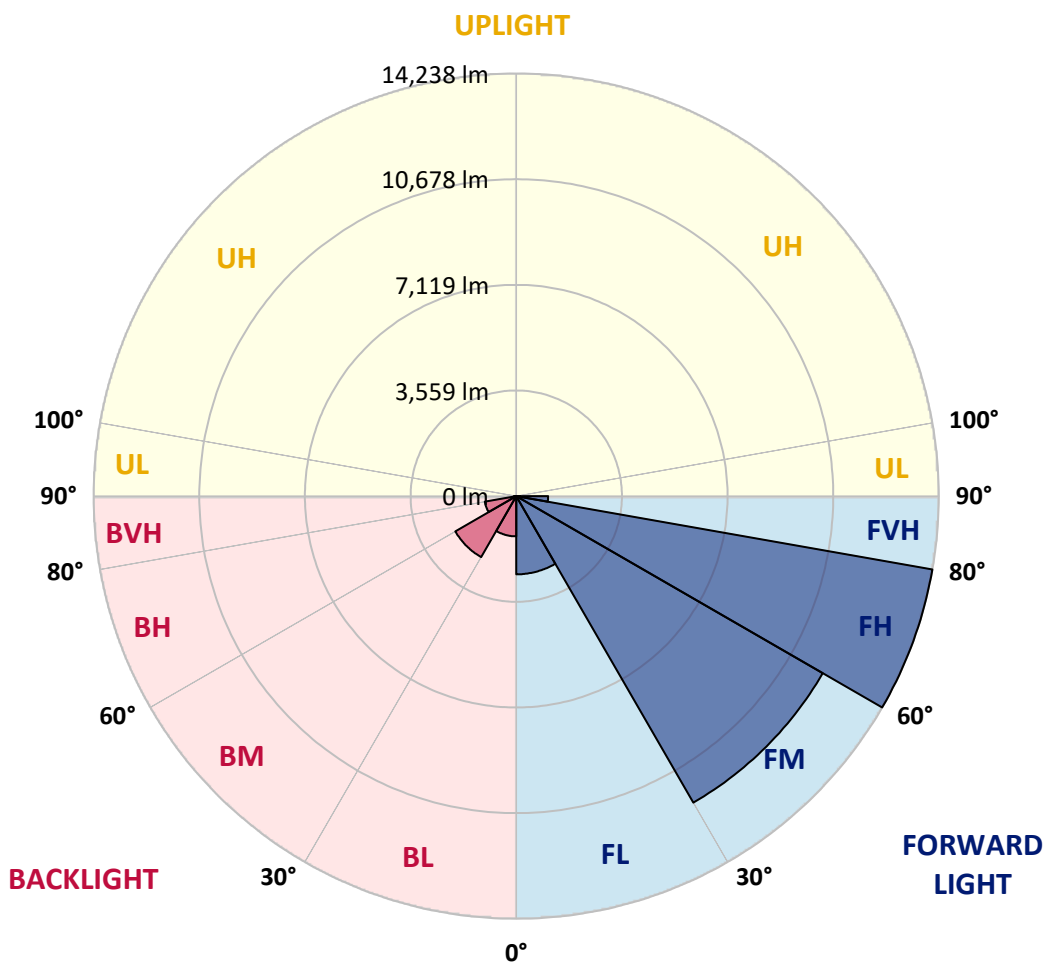
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2633.7	7.6			
FM (30°-60°)	11923.2	34.3			
FH (60°-80°)	14237.7	41.0			G5
FVH (80°-90°)	1074.8	3.1			G5
BL (0°-30°)	1354.9	3.9	B3/2500		
BM (30°-60°)	2371.1	6.8	B2/2500		
BH (60°-80°)	1074.5	3.1	B3/2500		G3/2500
BVH (80°-90°)	85.1	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°	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6
2.5°	6334.4	6268.3	6279.9	6256.6	6279.9	6272.2	6260.5	6202.2	6260.5	6202.2	6186.6
5°	6248.8	6248.8	6287.7	6229.4	6237.2	6198.3	6237.2	6194.4	6155.5	6058.3	6031.1
7.5°	6221.6	6217.7	6221.6	6139.9	6178.8	6155.5	6116.6	6069.9	5992.2	5930.0	5840.5
10°	6035.0	6073.8	6031.1	6054.4	6085.5	6015.5	6011.6	6000.0	5965.0	5883.3	5828.9
12.5°	5933.9	6000.0	6023.3	6003.8	6031.1	6038.8	6015.5	6000.0	5957.2	5902.7	5747.2
15°	5976.6	5898.9	5965.0	6093.3	6066.1	6085.5	6089.4	6073.8	6054.4	5953.3	5852.2
17.5°	5988.3	5941.6	6081.6	6108.8	6143.8	6213.8	6167.2	6163.3	6089.4	6019.4	5871.6
20°	6015.5	5996.1	6108.8	6252.7	6256.6	6268.3	6291.6	6233.3	6194.4	6073.8	5848.3
22.5°	6116.6	6182.7	6287.7	6349.9	6384.9	6392.7	6392.7	6276.0	6233.3	6136.1	5957.2
25°	6419.9	6349.9	6497.7	6571.6	6521.0	6509.3	6482.1	6377.1	6330.5	6244.9	6007.7
27.5°	6641.6	6637.7	6723.2	6824.3	6688.2	6715.4	6618.2	6587.1	6482.1	6435.5	6097.2
30°	6944.9	7030.4	7026.5	7057.6	6878.8	6909.9	6785.4	6727.1	6668.8	6696.0	6361.6
32.5°	7333.7	7302.6	7353.2	7329.8	7151.0	7178.2	7030.4	6941.0	6960.4	7042.1	6723.2
35°	7582.6	7551.5	7570.9	7570.9	7516.5	7485.4	7423.1	7306.5	7399.8	7551.5	7127.6
37.5°	7850.9	7889.8	8002.5	7979.2	7909.2	7909.2	7901.4	7819.8	7940.3	8313.6	7773.1
40°	8088.1	8193.1	8263.1	8309.7	8391.4	8391.4	8457.5	8410.8	8628.6	9227.4	8562.5
42.5°	8336.9	8340.8	8721.9	8756.9	8939.7	9017.4	9068.0	9106.9	9515.2	10184.0	9406.3
45°	8655.8	8675.2	9009.7	9278.0	9561.8	9589.0	9779.6	9907.9	10409.5	11230.0	10324.0
47.5°	9075.8	9052.4	9410.2	9837.9	10191.8	10378.4	10607.8	10747.8	11366.1	12365.4	11327.2
50°	9627.9	9557.9	9764.0	10436.7	10852.8	11058.9	11467.2	11700.5	12423.8	13450.3	12015.5
52.5°	10300.6	10184.0	10347.3	11082.2	11548.8	11964.9	12353.8	12614.3	13368.7	14290.2	12524.9
55°	11012.2	10771.1	10817.8	11766.6	12439.3	12832.0	13364.8	13637.0	14406.9	15044.6	13034.3
57.5°	11716.1	11564.4	11471.1	12423.8	13500.9	13878.1	14368.0	14721.9	15375.1	15713.4	13465.9
60°	12307.1	12268.2	12116.6	13442.5	14624.6	14947.4	15460.7	15678.4	16172.3	16331.7	13473.7
62.5°	12793.2	12661.0	12902.0	14263.0	15767.9	16133.4	16697.2	16716.7	17066.6	16716.7	13077.0
65°	13174.2	13182.0	13567.0	15254.6	17090.0	17630.5	18085.4	18034.9	17809.3	16487.2	12139.9
67.5°	13520.3	13668.1	14231.9	16343.4	18789.2	19298.6	19804.1	19135.3	18011.5	15414.0	10308.4
70°	13792.5	13940.3	15130.2	17669.3	20791.8	21538.4	21651.2	19570.8	17082.2	13057.6	7777.0
72.5°	13761.4	14029.7	15639.5	18727.0	22568.9	23214.3	22304.4	18345.9	14231.9	9103.0	4537.9
73°	13827.5	13959.7	15596.8	19022.5	23109.4	23432.1	22001.1	17961.0	13423.1	8165.8	3837.9
75°	12552.1	12999.3	14823.0	18540.4	22530.0	22471.6	20259.1	14966.8	9542.4	4289.0	1858.7
77.5°	9285.7	9569.6	11681.1	15246.8	18493.7	18120.4	15281.8	9565.7	4530.1	1590.4	1003.2
80°	4537.9	4759.5	6190.5	8803.6	12093.2	12124.3	9484.1	4977.3	1940.4	898.2	684.4
82.5°	2267.0	2399.2	2974.7	3869.1	5949.4	6233.3	4810.1	2830.8	1201.5	509.4	388.8
85°	1481.5	1574.8	1831.5	1893.7	2523.6	2663.6	2239.8	2208.7	781.6	276.1	315.0
87.5°	983.8	999.3	1123.8	956.6	1011.0	972.1	1081.0	1392.1	229.4	116.7	85.5
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6	6186.6
2.5°	6167.2	6112.7	6054.4	5972.7	5914.4	5825.0	5743.3	5708.3	5700.5	5704.4	5665.5
5°	6007.7	5930.0	5813.3	5646.1	5548.9	5401.1	5276.7	5210.6	5140.6	5152.3	5121.2
7.5°	5786.1	5700.5	5521.7	5327.2	5086.2	4876.2	4759.5	4596.2	4502.9	4432.9	4471.8
10°	5716.1	5568.3	5300.0	5031.7	4658.4	4382.3	4114.0	3927.4	3799.1	3674.6	3729.1
12.5°	5681.1	5533.3	5160.0	4763.4	4281.2	3861.3	3484.1	3254.7	3071.9	2963.0	3005.8
15°	5650.0	5467.2	5027.8	4467.9	3927.4	3375.2	2951.4	2648.1	2473.1	2368.1	2379.8
17.5°	5692.8	5432.2	4833.4	4180.1	3538.5	2947.5	2477.0	2162.0	1983.1	1917.0	1901.5
20°	5650.0	5393.3	4642.9	3892.4	3149.7	2539.2	2088.1	1827.6	1703.2	1648.7	1637.1
22.5°	5665.5	5300.0	4444.6	3573.5	2788.1	2197.0	1827.6	1629.3	1532.1	1504.8	1512.6
25°	5739.4	5245.6	4246.2	3223.6	2430.3	1944.2	1660.4	1508.7	1438.7	1411.5	1419.3
27.5°	5793.9	5292.2	4067.4	2893.0	2127.0	1718.7	1520.4	1419.3	1372.6	1353.2	1349.3
30°	5930.0	5319.5	3892.4	2597.5	1878.1	1571.0	1423.2	1341.5	1310.4	1298.8	1294.9
32.5°	6132.2	5370.0	3690.2	2325.3	1695.4	1431.0	1345.4	1275.4	1267.7	1256.0	1259.9
35°	6462.7	5545.0	3464.7	2092.0	1520.4	1337.6	1263.8	1217.1	1217.1	1217.1	1228.8
37.5°	6937.1	5790.0	3262.5	1870.4	1407.6	1256.0	1193.8	1178.2	1170.4	1182.1	1189.9
40°	7547.6	6085.5	3099.1	1695.4	1310.4	1201.5	1147.1	1139.3	1135.4	1131.6	1139.3
42.5°	8216.4	6462.7	2959.1	1559.3	1240.4	1143.2	1104.3	1096.6	1081.0	1088.8	1100.4
45°	8881.3	6929.3	2834.7	1450.4	1193.8	1112.1	1057.7	1053.8	1046.0	1042.1	1061.6
47.5°	9620.1	7388.1	2795.8	1384.3	1158.8	1065.4	1026.6	1022.7	999.3	995.5	1011.0
50°	10195.6	7726.4	2838.6	1353.2	1108.2	1030.5	1003.2	983.8	964.3	944.9	944.9
52.5°	10592.3	7959.8	2869.7	1329.9	1081.0	983.8	948.8	941.0	921.6	902.1	894.4
55°	10950.0	8099.7	2877.5	1333.8	1053.8	929.4	906.0	902.1	890.5	859.4	851.6
57.5°	11070.6	8041.4	2721.9	1298.8	1038.2	894.4	863.2	871.0	855.5	828.3	824.4
60°	11058.9	7637.0	2368.1	1252.1	1003.2	855.5	816.6	839.9	839.9	808.8	804.9
62.5°	10386.2	6703.8	1936.5	1162.7	964.3	816.6	773.8	808.8	820.5	801.0	797.1
65°	8990.2	5459.5	1617.6	1073.2	906.0	773.8	731.0	769.9	789.4	781.6	777.7
67.5°	7438.7	4176.2	1345.4	956.6	832.1	715.5	680.5	707.7	719.4	723.3	727.1
70°	5257.3	2780.3	1123.8	828.3	731.0	653.3	614.4	618.3	614.4	626.0	626.0
72.5°	2858.0	1602.1	913.8	703.8	629.9	567.7	540.5	521.1	521.1	517.2	517.2
73°	2445.9	1438.7	871.0	684.4	602.7	552.2	521.1	505.5	505.5	501.6	497.7
75°	1372.6	1053.8	746.6	587.2	521.1	482.2	458.8	435.5	431.6	431.6	431.6
77.5°	902.1	820.5	594.9	470.5	420.0	385.0	377.2	353.9	353.9	353.9	350.0
80°	676.6	645.5	458.8	357.7	322.7	295.5	287.7	272.2	268.3	252.8	256.6
82.5°	451.1	509.4	334.4	252.8	217.8	202.2	202.2	198.3	186.6	167.2	167.2
85°	357.7	416.1	241.1	155.5	128.3	108.9	112.8	108.9	105.0	85.5	81.7
87.5°	66.1	167.2	70.0	42.8	31.1	19.4	19.4	11.7	7.8	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)