

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: P477172

Luminaire Tested: **IFLD-L-SA8A-830-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477172  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-830-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

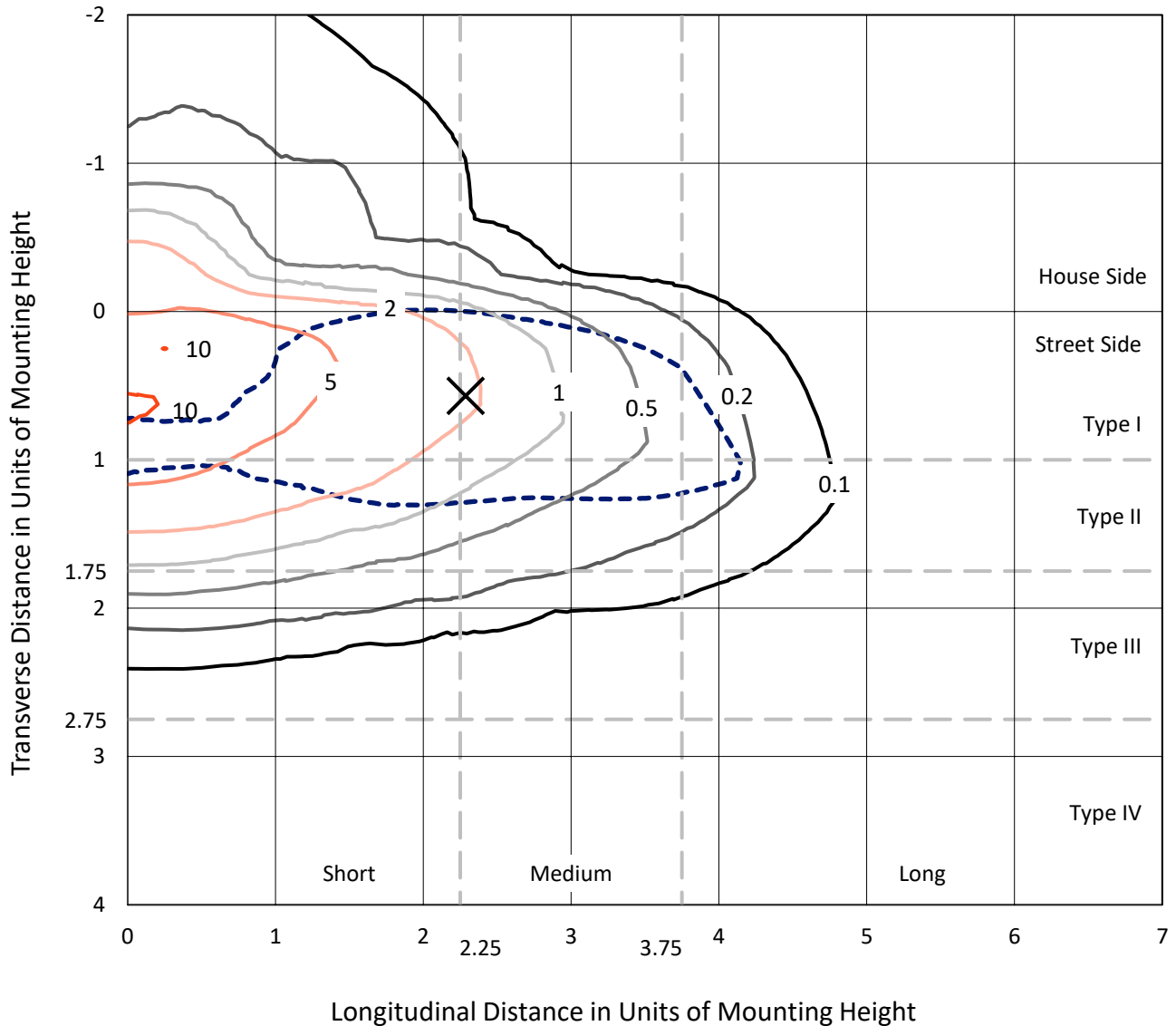
Lumens per Lamp: N/A  
Luminaire Lumens: 27373 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 247.8  
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: P477172  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

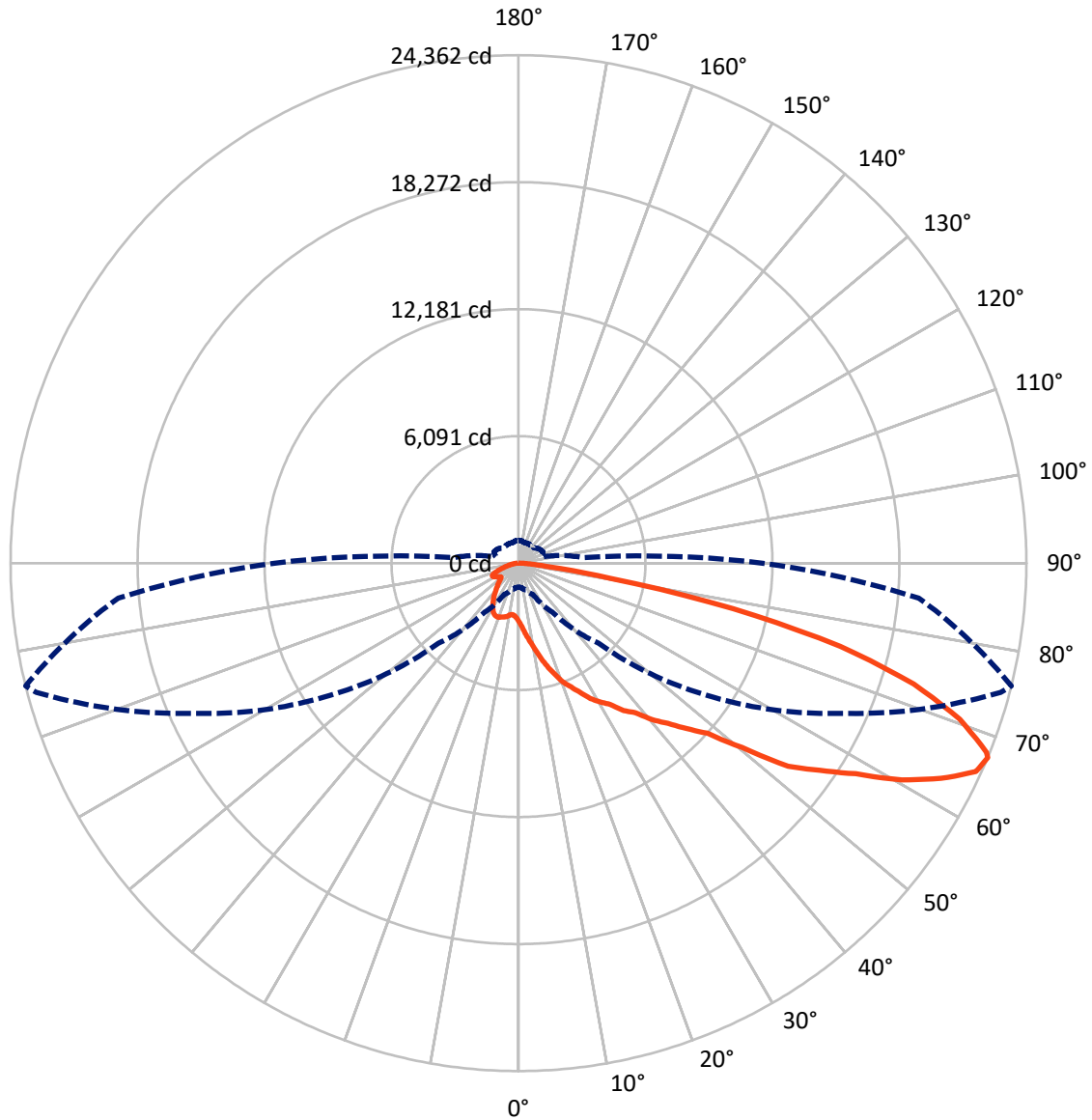
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type II - Medium - N/A

REPORT NUMBER: P477172  
CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P477172  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3894.1	0.0	3894.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	23478.8	0.0	23478.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	27373.0	0.0	27373.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.5	1.2
10°-20°	1217.0	4.4
20°-30°	2262.5	8.3
30°-40°	3586.6	13.1
40°-50°	4960.6	18.1
50°-60°	6101.8	22.3
60°-70°	5678.0	20.7
70°-80°	2849.2	10.4
80°-90°	392.9	1.4
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°	27373.0	100.0
0°-180°	27373.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P477172

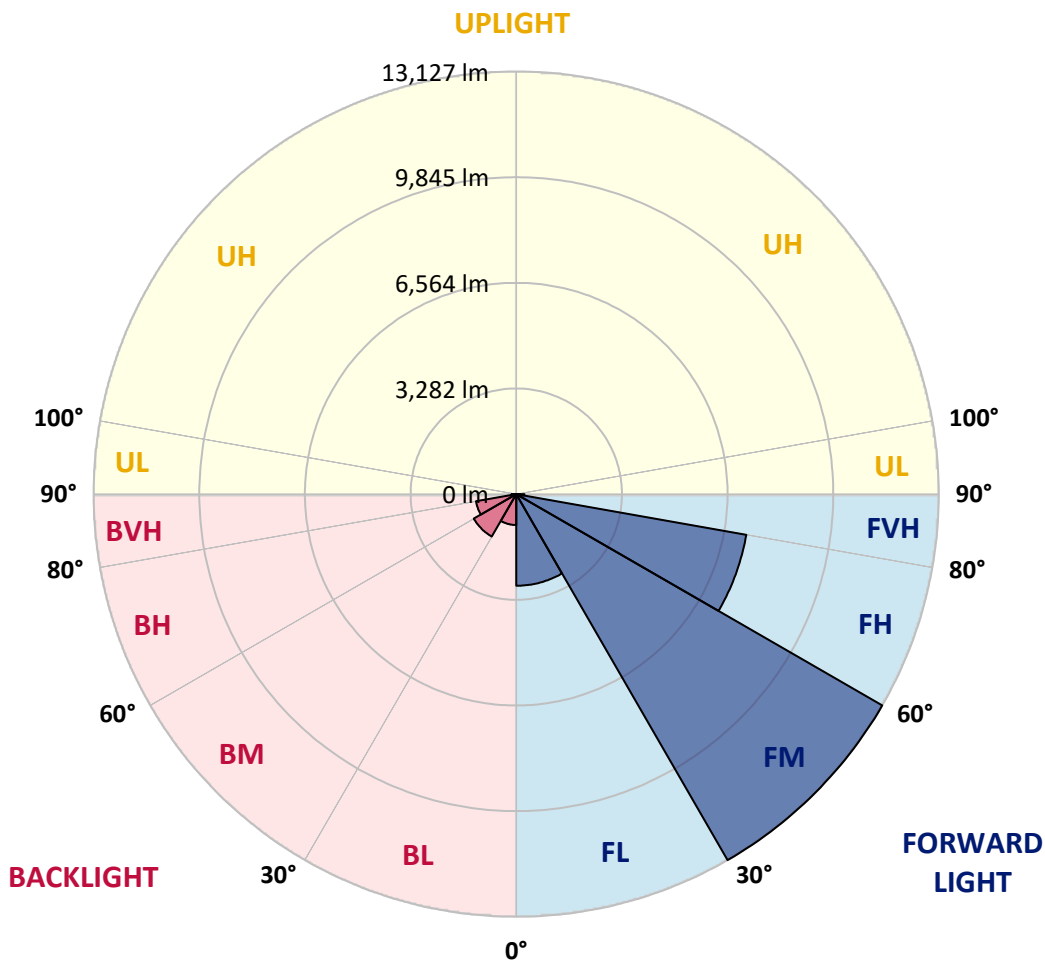
CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2845.0	10.4			
FM (30°-60°)	13127.2	48.0			
FH (60°-80°)	7256.4	26.5			G3/7500
FVH (80°-90°)	250.3	0.9			G3/500
BL (0°-30°)	959.0	3.5	B2/1000		
BM (30°-60°)	1521.8	5.6	B2/2500		
BH (60°-80°)	1270.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	142.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium





REPORT NUMBER: P477172  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	3886.8	3840.0	3793.2	3693.4	3659.0	3565.5	3393.9	3203.6	3047.6	3025.8	2916.6
5°	4822.6	4753.9	4738.3	4682.2	4504.4	4323.5	4042.7	3737.0	3356.5	3384.5	3010.2
7.5°	5524.4	5483.9	5399.7	5346.6	5240.6	5000.4	4710.3	4304.8	3821.2	3727.7	3219.2
10°	6054.7	5998.6	5995.5	5948.7	5892.5	5646.1	5424.6	4878.7	4258.0	4130.1	3475.0
12.5°	6323.0	6313.6	6479.0	6479.0	6457.1	6354.2	5973.6	5474.5	4672.8	4629.2	3771.3
15°	6613.1	6535.1	6678.6	6787.8	6843.9	6897.0	6581.9	6054.7	5203.1	5118.9	4089.5
17.5°	6613.1	6606.9	6750.3	6931.3	7224.5	7293.1	7121.6	6588.1	5643.0	5580.6	4438.9
20°	6500.8	6591.3	6691.1	6934.4	7252.6	7530.2	7580.1	7134.0	6129.6	6079.7	4835.0
22.5°	7024.9	6937.5	7040.4	7134.0	7380.5	7801.6	7938.8	7614.4	6641.2	6450.9	5193.8
25°	7904.5	7845.3	7770.4	7633.1	7736.1	7920.1	8129.1	7970.0	7077.9	6865.8	5540.0
27.5°	8762.3	8765.5	8603.3	8303.8	8082.3	8119.8	8366.2	8282.0	7446.0	7352.4	5777.1
30°	9982.0	9907.2	9726.2	9320.7	8887.1	8531.5	8491.0	8572.1	7913.9	7733.0	6117.1
32.5°	10896.0	10911.6	10655.8	10072.5	9479.8	9189.7	8834.1	8868.4	8210.2	8076.1	6388.5
35°	11635.3	11616.6	11435.7	10952.2	10250.3	9900.9	9420.5	9224.0	8899.6	8687.5	6803.4
37.5°	12433.9	12281.0	11987.8	11441.9	10992.7	10509.2	10041.3	9598.3	9358.2	9102.4	7159.0
40°	12755.2	12755.2	12362.1	12112.6	11579.2	11214.2	10911.6	10091.2	9916.5	9866.6	7614.4
42.5°	12527.4	12667.8	12505.6	12221.7	12003.4	11541.7	11460.6	10602.8	10605.9	10506.1	8160.3
45°	12505.6	12312.2	12178.1	12249.8	12146.9	12121.9	12327.8	11310.9	11329.6	11317.1	8893.4
47.5°	11878.6	11791.3	11990.9	12109.4	12193.7	12580.5	13173.2	12156.2	12290.4	12196.8	9738.7
50°	11254.7	11239.1	11363.9	11794.4	12159.4	12795.7	13978.0	13460.1	13900.0	13893.7	11270.3
52.5°	9545.3	9710.6	10200.4	11111.2	12012.7	13088.9	14586.2	15125.9	15965.0	16192.7	12539.9
55°	7910.8	7823.4	8547.1	9869.7	11373.3	13204.4	15266.3	16127.2	17362.5	17527.8	13843.8
57.5°	6154.5	6316.8	6887.6	8157.2	10050.7	12633.5	15765.4	17116.1	18940.9	19068.8	15356.7
60°	4591.7	4613.6	5240.6	6263.7	8291.3	11345.2	15927.6	18129.9	20750.1	21115.1	16941.4
62.5°	2888.5	3019.6	3496.8	4504.4	6241.9	9542.2	15200.8	18744.4	22646.7	22743.4	18538.5
65°	1556.6	1640.8	1999.5	2632.8	4360.9	7218.3	13273.0	18376.3	23538.9	24112.8	19249.7
67°	1151.1	1166.6	1332.0	1681.3	2916.6	5434.0	11067.6	17044.3	23944.4	24362.4	19277.8
67.5°	1079.3	1101.1	1232.2	1509.8	2586.0	5003.5	10490.5	16570.2	23763.5	24212.7	19059.4
70°	923.3	929.6	960.8	1038.8	1450.5	3010.2	7143.4	13578.7	22026.0	22456.4	17527.8
72.5°	820.4	826.6	839.1	854.7	982.6	1740.6	4345.3	10449.9	19143.7	19829.9	15122.8
75°	720.6	742.4	748.7	736.2	836.0	1132.3	2311.5	7679.9	15615.6	15949.4	11760.1
77.5°	611.4	620.8	633.2	645.7	745.5	845.4	1110.5	5184.4	10718.2	10515.4	6360.4
80°	514.7	517.8	527.2	536.5	645.7	645.7	630.1	2801.2	4682.2	4476.3	2149.3
82.5°	368.1	389.9	411.8	436.7	536.5	433.6	411.8	1247.8	1481.7	1410.0	726.8
85°	143.5	174.7	271.4	299.5	340.0	234.0	274.5	539.7	617.6	611.4	271.4
87.5°	25.0	28.1	74.9	115.4	124.8	81.1	131.0	193.4	230.8	249.6	99.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477172  
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2	2801.2
2.5°	2826.2	2729.5	2614.0	2498.6	2423.8	2305.2	2295.9	2224.1	2214.8	2189.8	2202.3
5°	2848.0	2732.6	2498.6	2314.6	2230.4	2161.7	2177.3	2146.1	2136.8	2121.2	2096.2
7.5°	3019.6	2791.8	2442.5	2283.4	2221.0	2189.8	2189.8	2152.4	2124.3	2143.0	2161.7
10°	3131.9	2819.9	2486.1	2327.1	2277.2	2208.5	2233.5	2186.7	2202.3	2164.9	2164.9
12.5°	3312.8	2979.0	2576.6	2392.6	2311.5	2249.1	2274.0	2221.0	2208.5	2211.6	2202.3
15°	3556.1	3085.1	2617.2	2430.0	2373.9	2295.9	2277.2	2230.4	2183.6	2168.0	2186.7
17.5°	3783.8	3216.1	2645.2	2451.8	2361.4	2274.0	2252.2	2192.9	2177.3	2130.5	2093.1
20°	4055.2	3372.1	2682.7	2470.6	2314.6	2227.2	2171.1	2111.8	2058.8	2030.7	2043.2
22.5°	4236.1	3453.2	2701.4	2433.1	2246.0	2164.9	2046.3	2005.8	1930.9	1899.7	1874.7
25°	4532.5	3553.0	2654.6	2330.2	2124.3	1993.3	1887.2	1831.1	1778.0	1737.5	1725.0
27.5°	4607.3	3627.8	2545.4	2155.5	1930.9	1793.6	1703.2	1634.6	1600.2	1537.9	1525.4
30°	4825.7	3553.0	2383.2	1943.4	1746.9	1606.5	1516.0	1466.1	1385.0	1369.4	1335.1
32.5°	4966.1	3574.8	2177.3	1737.5	1534.7	1410.0	1350.7	1300.8	1278.9	1204.1	1185.4
35°	5200.0	3499.9	1968.3	1547.2	1360.1	1263.4	1213.4	1197.8	1126.1	1091.8	1060.6
37.5°	5349.7	3456.3	1759.3	1332.0	1169.8	1129.2	1144.8	1079.3	992.0	926.5	904.6
40°	5611.8	3440.7	1522.3	1154.2	1038.8	1029.4	1079.3	954.5	795.4	739.3	708.1
42.5°	5989.2	3334.6	1338.2	995.1	935.8	976.4	985.7	795.4	705.0	658.2	636.4
45°	6351.1	3356.5	1157.3	823.5	814.2	873.4	851.6	673.8	620.8	586.4	605.2
47.5°	7046.7	3465.6	979.5	686.3	733.1	789.2	661.3	602.0	552.1	527.2	530.3
50°	8122.9	3571.7	823.5	627.0	692.5	714.3	567.7	545.9	542.8	492.9	489.7
52.5°	8768.6	3531.1	795.4	701.9	742.4	714.3	617.6	602.0	577.1	555.3	530.3
55°	9794.9	3649.7	854.7	820.4	842.2	686.3	692.5	686.3	667.5	611.4	627.0
57.5°	10612.1	3727.7	932.7	917.1	904.6	714.3	723.7	726.8	714.3	689.4	711.2
60°	11735.1	3883.6	1013.8	1016.9	1020.0	776.7	792.3	811.0	807.9	798.6	804.8
62.5°	12424.5	3811.9	1104.3	1154.2	1138.6	904.6	901.5	914.0	914.0	929.6	938.9
65°	12321.6	3546.7	1151.1	1275.8	1194.7	998.2	998.2	1004.4	1007.6	1038.8	1041.9
67°	11703.9	3072.6	1126.1	1294.5	1194.7	1035.6	1035.6	1041.9	1020.0	1101.1	1076.2
67.5°	11416.9	2932.2	1104.3	1278.9	1185.4	1032.5	1032.5	1035.6	1016.9	1094.9	1069.9
70°	9929.0	2177.3	951.4	1132.3	1098.0	1004.4	1004.4	985.7	970.1	1073.1	1051.2
72.5°	8475.4	1581.5	764.2	963.9	992.0	967.0	973.2	926.5	882.8	954.5	935.8
75°	6491.4	1163.5	595.8	742.4	839.1	904.6	945.2	826.6	770.5	789.2	754.9
77.5°	3621.6	758.0	471.0	549.0	639.5	842.2	907.7	745.5	630.1	608.3	608.3
80°	1229.0	443.0	346.3	408.6	439.8	745.5	848.5	605.2	496.0	474.1	458.5
82.5°	464.8	271.4	237.1	280.7	280.7	589.6	692.5	464.8	374.3	483.5	492.9
85°	212.1	162.2	156.0	162.2	162.2	361.8	489.7	302.6	336.9	290.1	255.8
87.5°	84.2	78.0	71.7	68.6	56.1	62.4	168.4	81.1	152.8	40.6	37.4
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)