

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: P476887

Luminaire Tested: **IFLD-S-SA6D-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476887  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

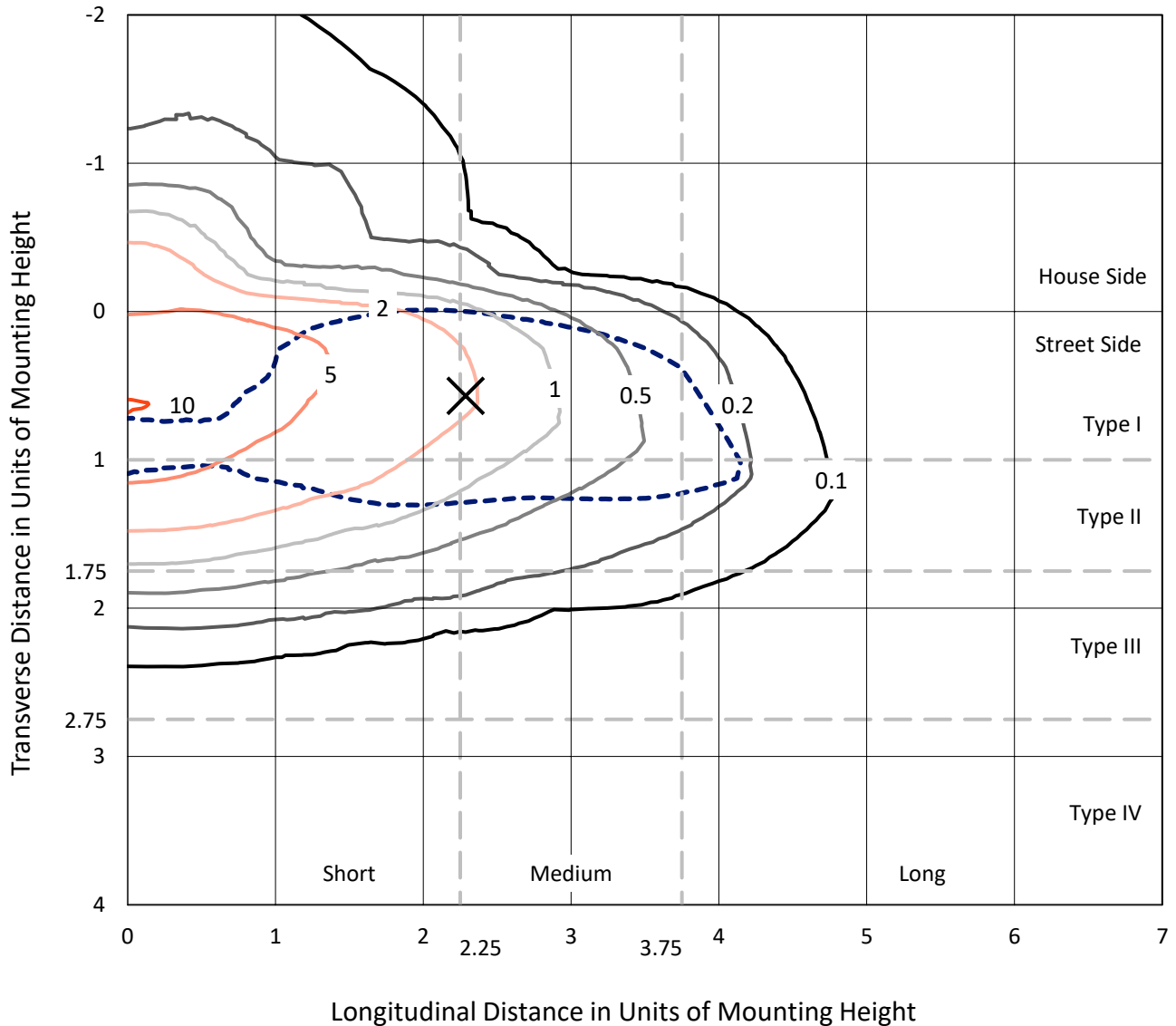
Lumens per Lamp: N/A  
Luminaire Lumens: 38452.1 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2  
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

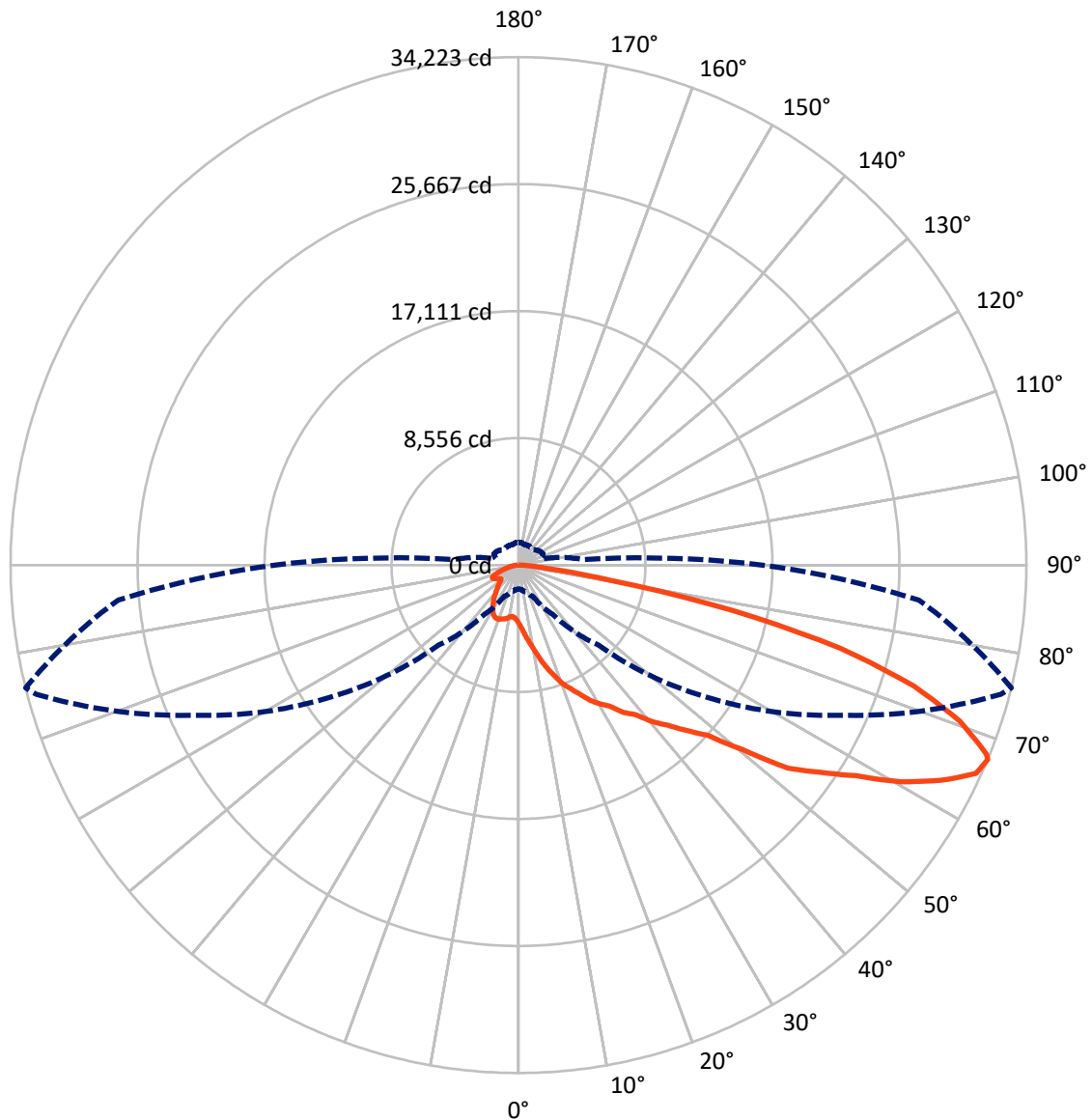
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5470.3	0.0	5470.3
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	32981.8	0.0	32981.8
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	38452.1	0.0	38452.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.8	1.2
10°-20°	1709.5	4.4
20°-30°	3178.2	8.3
30°-40°	5038.2	13.1
40°-50°	6968.3	18.1
50°-60°	8571.5	22.3
60°-70°	7976.2	20.7
70°-80°	4002.4	10.4
80°-90°	551.9	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°	38452.1	100.0
0°-180°	38452.1	100.0

**Coefficient of Utilization**



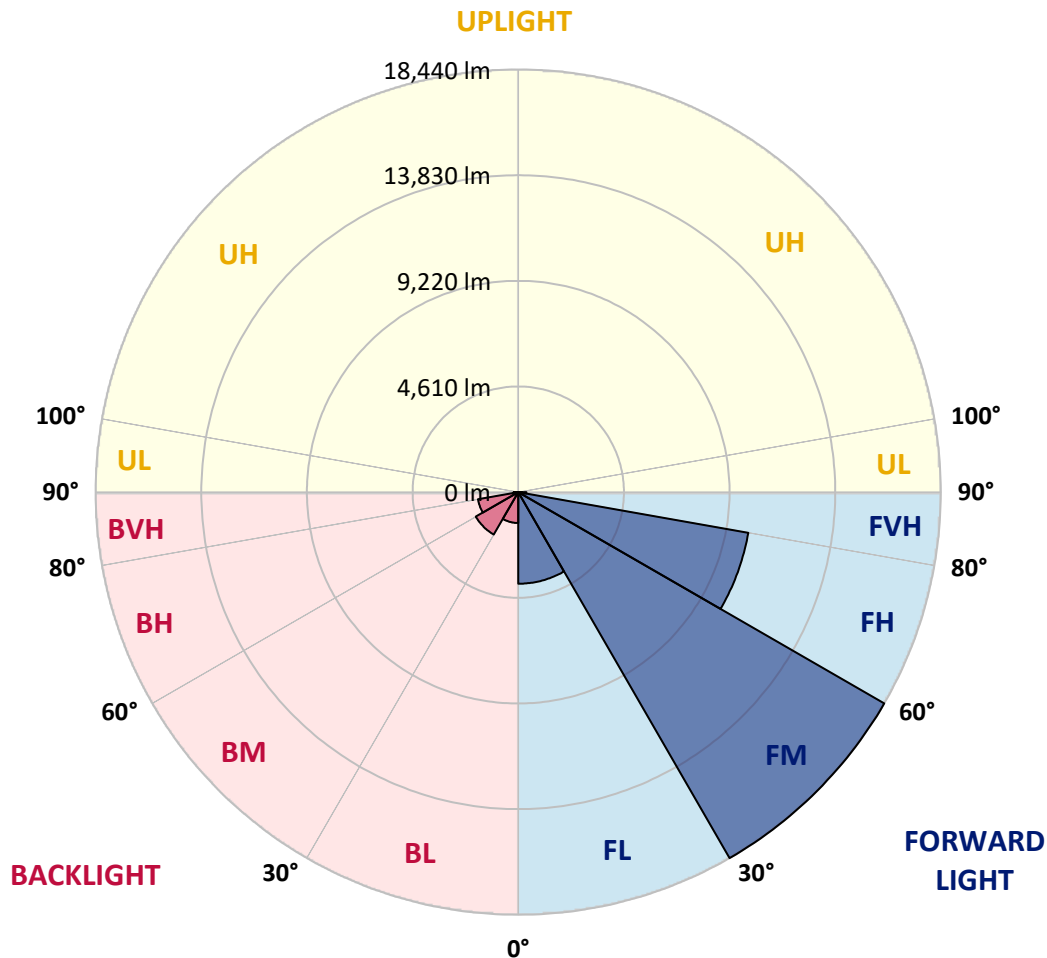
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3996.5	10.4			
FM (30°-60°)	18440.4	48.0			
FH (60°-80°)	10193.3	26.5			G4/12000
FVH (80°-90°)	351.6	0.9			G3/500
BL (0°-30°)	1347.1	3.5	B3/2500		
BM (30°-60°)	2137.7	5.6	B2/2500		
BH (60°-80°)	1785.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	200.3	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0
2.5°	5459.9	5394.2	5328.4	5188.2	5140.0	5008.6	4767.6	4500.3	4281.2	4250.5	4097.1
5°	6774.5	6678.1	6656.2	6577.3	6327.5	6073.4	5679.0	5249.6	4715.0	4754.4	4228.6
7.5°	7760.4	7703.5	7585.1	7510.6	7361.7	7024.2	6616.7	6047.1	5367.9	5236.4	4522.2
10°	8505.3	8426.5	8422.1	8356.4	8277.5	7931.3	7620.2	6853.4	5981.3	5801.7	4881.5
12.5°	8882.2	8869.0	9101.3	9101.3	9070.6	8926.0	8391.4	7690.3	6564.1	6502.8	5297.8
15°	9289.7	9180.2	9381.7	9535.1	9614.0	9688.5	9245.9	8505.3	7309.1	7190.8	5744.7
17.5°	9289.7	9280.9	9482.5	9736.7	10148.6	10245.0	10004.0	9254.7	7926.9	7839.3	6235.5
20°	9132.0	9259.0	9399.3	9741.1	10188.0	10578.0	10648.1	10021.5	8610.5	8540.4	6792.0
22.5°	9868.1	9745.4	9890.0	10021.5	10367.7	10959.2	11152.0	10696.3	9329.1	9061.9	7295.9
25°	11103.8	11020.6	10915.4	10722.6	10867.2	11125.7	11419.3	11195.9	9942.6	9644.6	7782.3
27.5°	12308.9	12313.3	12085.4	11664.7	11353.6	11406.2	11752.4	11634.1	10459.7	10328.2	8115.4
30°	14022.2	13917.0	13662.9	13093.2	12484.1	11984.6	11927.6	12041.6	11117.0	10862.8	8593.0
32.5°	15306.1	15328.0	14968.7	14149.3	13316.7	12909.2	12409.7	12457.9	11533.3	11344.8	8974.2
35°	16344.6	16318.3	16064.2	15385.0	14399.1	13908.3	13233.5	12957.4	12501.7	12203.7	9557.0
37.5°	17466.4	17251.7	16839.8	16073.0	15442.0	14762.8	14105.5	13483.2	13145.8	12786.5	10056.6
40°	17917.8	17917.8	17365.6	17015.1	16265.8	15753.1	15328.0	14175.6	13930.2	13860.1	10696.3
42.5°	17597.9	17795.1	17567.2	17168.4	16861.7	16213.2	16099.2	14894.2	14898.6	14758.4	11463.2
45°	17567.2	17295.5	17107.1	17207.9	17063.3	17028.2	17317.4	15888.9	15915.2	15897.7	12492.9
47.5°	16686.4	16563.7	16844.2	17010.7	17129.0	17672.4	18504.9	17076.4	17264.8	17133.4	13680.4
50°	15810.0	15788.1	15963.4	16568.1	17080.8	17974.7	19635.5	18908.1	19525.9	19517.2	15831.9
52.5°	13408.7	13641.0	14328.9	15608.5	16874.9	18386.6	20490.0	21248.0	22426.8	22746.6	17615.4
55°	11112.6	10989.9	12006.5	13864.5	15976.6	18548.8	21445.2	22654.6	24389.9	24622.1	19447.0
57.5°	8645.6	8873.4	9675.3	11458.8	14118.6	17746.9	22146.3	24043.7	26607.1	26786.8	21572.3
60°	6450.2	6480.9	7361.7	8798.9	11647.2	15937.1	22374.2	25467.8	29148.7	29661.4	23798.3
62.5°	4057.7	4241.7	4912.2	6327.5	8768.3	13404.4	21353.2	26331.1	31812.9	31948.7	26041.9
65°	2186.6	2304.9	2808.8	3698.4	6126.0	10139.8	18645.2	25814.0	33066.1	33872.4	27041.0
67°	1616.9	1638.8	1871.1	2361.9	4097.1	7633.3	15547.1	23942.9	33635.8	34222.9	27080.4
67.5°	1516.2	1546.8	1730.9	2120.9	3632.6	7028.6	14736.5	23276.9	33381.6	34012.6	26773.7
70°	1297.1	1305.8	1349.6	1459.2	2037.6	4228.6	10034.6	19074.6	30940.9	31545.6	24622.1
72.5°	1152.5	1161.2	1178.7	1200.7	1380.3	2445.1	6104.0	14679.5	26892.0	27856.0	21243.6
75°	1012.2	1042.9	1051.7	1034.1	1174.4	1590.6	3247.0	10788.3	21936.0	22404.9	16519.9
77.5°	858.9	872.0	889.5	907.1	1047.3	1187.5	1560.0	7282.8	15056.3	14771.5	8934.8
80°	723.0	727.4	740.5	753.7	907.1	907.1	885.2	3935.0	6577.3	6288.1	3019.2
82.5°	517.1	547.7	578.4	613.5	753.7	609.1	578.4	1752.8	2081.4	1980.6	1021.0
85°	201.6	245.4	381.2	420.7	477.6	328.6	385.6	758.1	867.6	858.9	381.2
87.5°	35.1	39.4	105.2	162.1	175.3	113.9	184.0	271.7	324.3	350.6	140.2
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°	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0	3935.0
2.5°	3970.0	3834.2	3672.1	3509.9	3404.8	3238.3	3225.1	3124.3	3111.2	3076.1	3093.6
5°	4000.7	3838.6	3509.9	3251.4	3133.1	3036.7	3058.6	3014.8	3001.6	2979.7	2944.7
7.5°	4241.7	3921.8	3431.1	3207.6	3119.9	3076.1	3076.1	3023.5	2984.1	3010.4	3036.7
10°	4399.5	3961.3	3492.4	3268.9	3198.8	3102.4	3137.5	3071.7	3093.6	3041.1	3041.1
12.5°	4653.6	4184.8	3619.5	3360.9	3247.0	3159.4	3194.4	3119.9	3102.4	3106.8	3093.6
15°	4995.4	4333.7	3676.4	3413.5	3334.7	3225.1	3198.8	3133.1	3067.4	3045.4	3071.7
17.5°	5315.3	4517.8	3715.9	3444.2	3317.1	3194.4	3163.8	3080.5	3058.6	2992.9	2940.3
20°	5696.5	4736.9	3768.5	3470.5	3251.4	3128.7	3049.8	2966.6	2892.1	2852.6	2870.2
22.5°	5950.7	4850.8	3794.8	3417.9	3155.0	3041.1	2874.6	2817.6	2712.4	2668.6	2633.5
25°	6367.0	4991.0	3729.0	3273.3	2984.1	2800.1	2651.1	2572.2	2497.7	2440.7	2423.2
27.5°	6472.1	5096.2	3575.7	3027.9	2712.4	2519.6	2392.5	2296.1	2247.9	2160.3	2142.8
30°	6778.9	4991.0	3347.8	2729.9	2453.9	2256.7	2129.6	2059.5	1945.6	1923.7	1875.5
32.5°	6976.0	5021.7	3058.6	2440.7	2155.9	1980.6	1897.4	1827.3	1796.6	1691.4	1665.1
35°	7304.7	4916.5	2765.0	2173.4	1910.5	1774.7	1704.6	1682.7	1581.9	1533.7	1489.9
37.5°	7515.0	4855.2	2471.4	1871.1	1643.2	1586.3	1608.2	1516.2	1393.5	1301.4	1270.8
40°	7883.1	4833.3	2138.4	1621.3	1459.2	1446.0	1516.2	1340.9	1117.4	1038.5	994.7
42.5°	8413.3	4684.3	1879.9	1397.8	1314.6	1371.5	1384.7	1117.4	990.3	924.6	893.9
45°	8921.6	4715.0	1625.7	1156.8	1143.7	1226.9	1196.3	946.5	872.0	823.8	850.1
47.5°	9898.8	4868.3	1375.9	964.0	1029.8	1108.6	929.0	845.7	775.6	740.5	744.9
50°	11410.6	5017.3	1156.8	880.8	972.8	1003.5	797.5	766.8	762.5	692.3	688.0
52.5°	12317.6	4960.4	1117.4	985.9	1042.9	1003.5	867.6	845.7	810.7	780.0	744.9
55°	13759.3	5126.9	1200.7	1152.5	1183.1	964.0	972.8	964.0	937.7	858.9	880.8
57.5°	14907.4	5236.4	1310.2	1288.3	1270.8	1003.5	1016.6	1021.0	1003.5	968.4	999.1
60°	16484.9	5455.5	1424.1	1428.5	1432.9	1091.1	1113.0	1139.3	1134.9	1121.8	1130.5
62.5°	17453.3	5354.7	1551.2	1621.3	1599.4	1270.8	1266.4	1283.9	1283.9	1305.8	1319.0
65°	17308.7	4982.3	1616.9	1792.2	1678.3	1402.2	1402.2	1411.0	1415.4	1459.2	1463.6
67°	16441.0	4316.2	1581.9	1818.5	1678.3	1454.8	1454.8	1463.6	1432.9	1546.8	1511.8
67.5°	16037.9	4119.0	1551.2	1796.6	1665.1	1450.4	1450.4	1454.8	1428.5	1538.1	1503.0
70°	13947.7	3058.6	1336.5	1590.6	1542.4	1411.0	1411.0	1384.7	1362.8	1507.4	1476.7
72.5°	11905.7	2221.6	1073.6	1354.0	1393.5	1358.4	1367.2	1301.4	1240.1	1340.9	1314.6
75°	9118.8	1634.5	837.0	1042.9	1178.7	1270.8	1327.7	1161.2	1082.3	1108.6	1060.4
77.5°	5087.4	1064.8	661.7	771.2	898.3	1183.1	1275.1	1047.3	885.2	854.5	854.5
80°	1726.5	622.2	486.4	574.0	617.9	1047.3	1191.9	850.1	696.7	666.1	644.1
82.5°	652.9	381.2	333.0	394.4	394.4	828.2	972.8	652.9	525.8	679.2	692.3
85°	298.0	227.9	219.1	227.9	227.9	508.3	688.0	425.0	473.2	407.5	359.3
87.5°	118.3	109.5	100.8	96.4	78.9	87.6	236.6	113.9	214.7	57.0	52.6
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)