

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: P476897

Luminaire Tested: **IFLD-L-SA7D-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476897  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

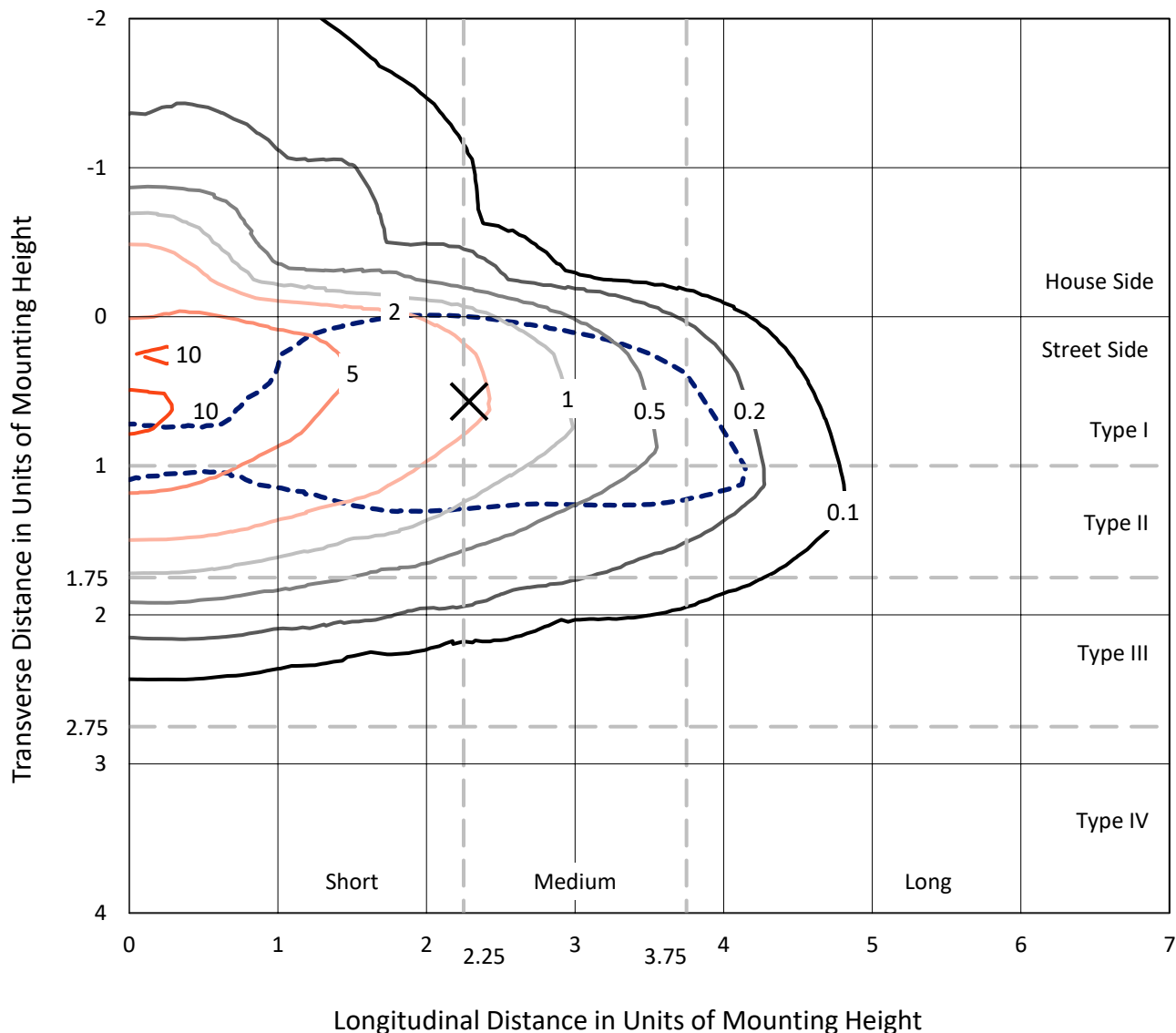
Lumens per Lamp: N/A  
Luminaire Lumens: 41023.2 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

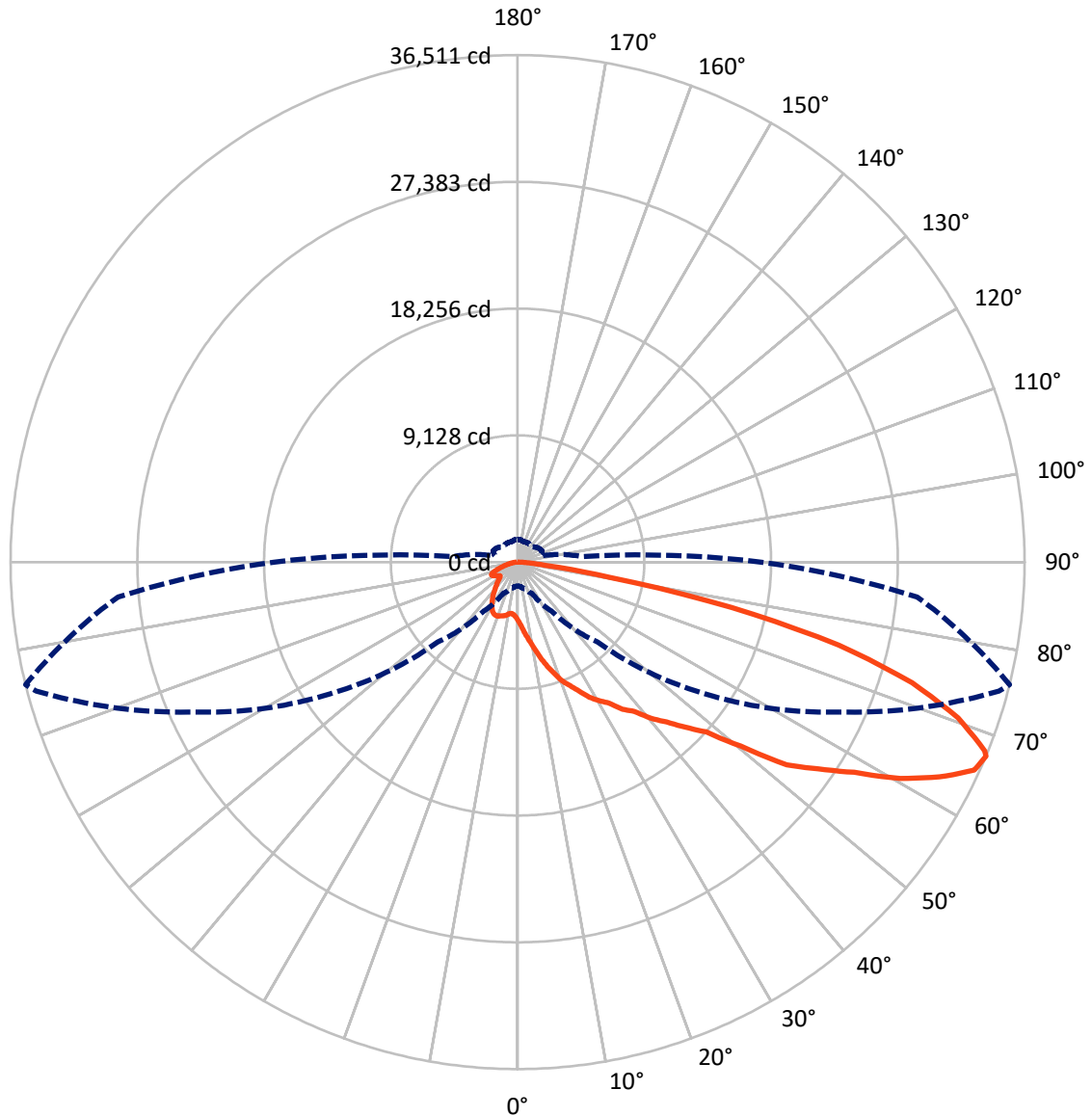
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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	5836.1	0.0	5836.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	35187.1	0.0	35187.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	41023.2	0.0	41023.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	486.3	1.2
10°-20°	1823.8	4.4
20°-30°	3390.8	8.3
30°-40°	5375.1	13.1
40°-50°	7434.3	18.1
50°-60°	9144.6	22.3
60°-70°	8509.5	20.7
70°-80°	4270.0	10.4
80°-90°	588.8	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°	41023.2	100.0
0°-180°	41023.2	100.0

**Coefficient of Utilization**



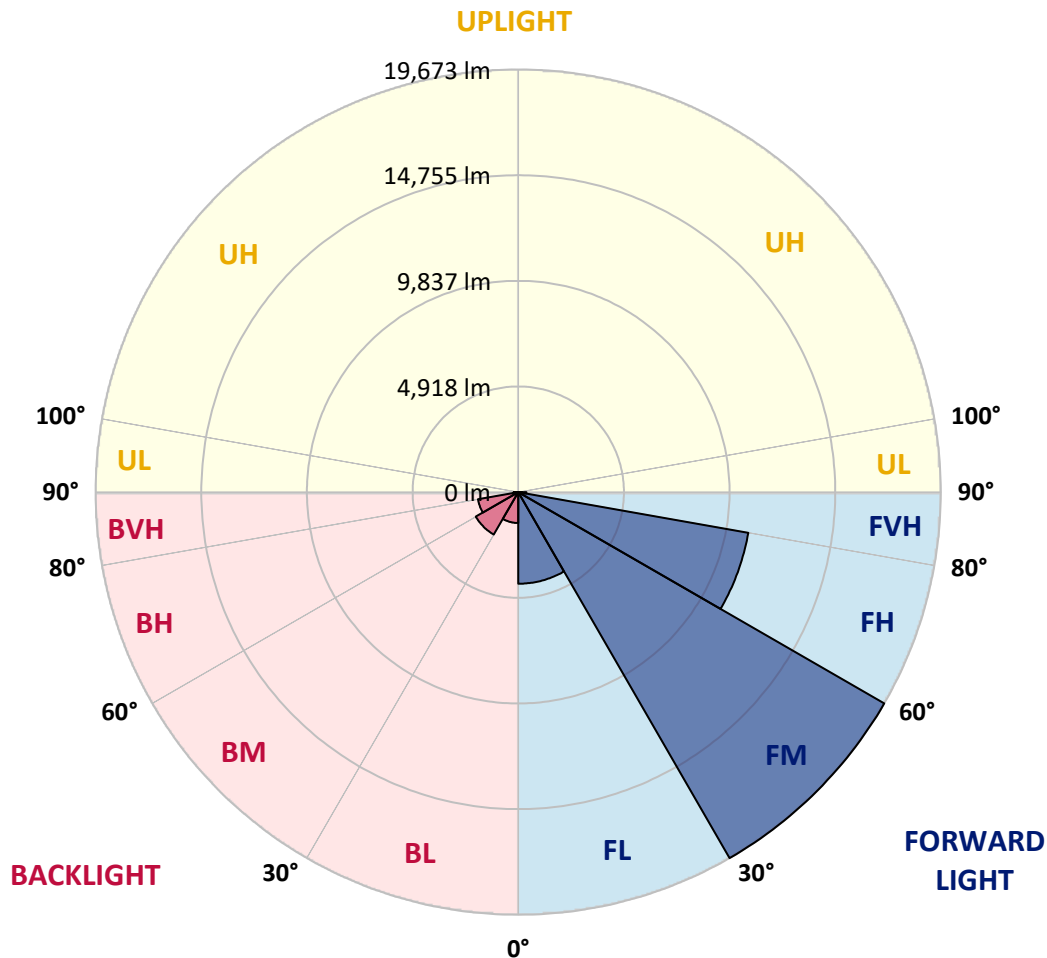
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4263.7	10.4			
FM (30°-60°)	19673.4	48.0			
FH (60°-80°)	10874.9	26.5			G4/12000
FVH (80°-90°)	375.1	0.9			G3/500
BL (0°-30°)	1437.2	3.5	B3/2500		
BM (30°-60°)	2280.6	5.6	B2/2500		
BH (60°-80°)	1904.6	4.6	B3/2500		G3/2500
BVH (80°-90°)	213.7	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°	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1
2.5°	5825.0	5754.9	5684.7	5535.1	5483.7	5343.5	5086.3	4801.2	4567.4	4534.7	4371.1
5°	7227.5	7124.6	7101.2	7017.1	6750.6	6479.5	6058.7	5600.6	5030.2	5072.3	4511.3
7.5°	8279.3	8218.5	8092.3	8012.9	7853.9	7493.9	7059.2	6451.4	5726.8	5586.6	4824.5
10°	9074.1	8989.9	8985.2	8915.1	8831.0	8461.6	8129.7	7311.6	6381.3	6189.6	5207.9
12.5°	9476.1	9462.1	9709.9	9709.9	9677.1	9522.9	8952.5	8204.5	7003.1	6937.6	5652.0
15°	9910.9	9794.0	10009.1	10172.7	10256.8	10336.3	9864.1	9074.1	7797.8	7671.6	6128.8
17.5°	9910.9	9901.5	10116.6	10387.7	10827.2	10930.0	10672.9	9873.5	8457.0	8363.5	6652.4
20°	9742.6	9878.2	10027.8	10392.4	10869.2	11285.3	11360.1	10691.6	9186.3	9111.5	7246.2
22.5°	10528.0	10397.1	10551.3	10691.6	11060.9	11692.0	11897.7	11411.5	9953.0	9667.8	7783.8
25°	11846.3	11757.5	11645.3	11439.6	11593.9	11869.7	12182.9	11944.5	10607.4	10289.5	8302.7
27.5°	13131.9	13136.6	12893.5	12444.7	12112.8	12168.9	12538.2	12412.0	11159.1	11018.8	8658.0
30°	14959.8	14847.6	14576.5	13968.7	13318.9	12786.0	12725.2	12846.7	11860.3	11589.2	9167.6
32.5°	16329.6	16352.9	15969.6	15095.4	14207.1	13772.4	13239.4	13290.9	12304.4	12103.4	9574.3
35°	17437.5	17409.5	17138.3	16413.7	15361.9	14838.3	14118.3	13823.8	13337.6	13019.7	10196.0
37.5°	18634.3	18405.2	17965.8	17147.7	16474.5	15749.9	15048.6	14384.8	14024.8	13641.5	10729.0
40°	19115.8	19115.8	18526.8	18152.8	17353.4	16806.4	16352.9	15123.4	14861.6	14786.8	11411.5
42.5°	18774.6	18984.9	18741.8	18316.4	17989.2	17297.3	17175.7	15890.1	15894.8	15745.2	12229.6
45°	18741.8	18452.0	18251.0	18358.5	18204.2	18166.8	18475.4	16951.3	16979.4	16960.7	13328.3
47.5°	17802.2	17671.3	17970.5	18148.1	18274.3	18854.0	19742.3	18218.3	18419.3	18279.0	14595.2
50°	16867.2	16843.8	17030.8	17676.0	18222.9	19176.6	20948.4	20172.4	20831.5	20822.2	16890.6
52.5°	14305.3	14553.1	15287.1	16652.1	18003.2	19616.1	21860.0	22668.8	23926.4	24267.6	18793.3
55°	11855.7	11724.8	12809.3	14791.5	17044.8	19789.0	22879.2	24169.5	26020.7	26268.5	20747.4
57.5°	9223.7	9466.8	10322.3	12225.0	15062.7	18933.5	23627.2	25651.4	28386.2	28577.9	23014.7
60°	6881.5	6914.2	7853.9	9387.3	12426.0	17002.8	23870.3	27170.8	31097.7	31644.7	25389.6
62.5°	4329.0	4525.3	5240.6	6750.6	9354.6	14300.6	22781.0	28091.7	33940.1	34085.0	27783.2
65°	2332.8	2459.0	2996.6	3945.7	6535.6	10817.8	19891.9	27540.1	35277.1	36137.3	28849.1
67°	1725.1	1748.4	1996.2	2519.8	4371.1	8143.7	16586.7	25543.9	35884.9	36511.3	28891.1
67.5°	1617.5	1650.3	1846.6	2262.7	3875.5	7498.6	15721.8	24833.3	35613.7	36286.9	28563.9
70°	1383.8	1393.1	1439.9	1556.8	2173.8	4511.3	10705.6	20350.0	33009.8	33654.9	26268.5
72.5°	1229.5	1238.9	1257.6	1280.9	1472.6	2608.6	6512.2	15661.1	28690.1	29718.6	22664.1
75°	1079.9	1112.6	1122.0	1103.3	1252.9	1697.0	3464.1	11509.7	23402.8	23903.0	17624.5
77.5°	916.3	930.3	949.0	967.7	1117.3	1266.9	1664.3	7769.8	16063.1	15759.2	9532.2
80°	771.4	776.0	790.1	804.1	967.7	967.7	944.3	4198.1	7017.1	6708.5	3221.0
82.5°	551.6	584.4	617.1	654.5	804.1	649.8	617.1	1870.0	2220.6	2113.1	1089.3
85°	215.0	261.8	406.7	448.8	509.6	350.6	411.4	808.8	925.6	916.3	406.7
87.5°	37.4	42.1	112.2	173.0	187.0	121.5	196.3	289.8	345.9	374.0	149.6
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°	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1	4198.1
2.5°	4235.5	4090.6	3917.6	3744.6	3632.4	3454.8	3440.8	3333.2	3319.2	3281.8	3300.5
5°	4268.2	4095.2	3744.6	3468.8	3342.6	3239.7	3263.1	3216.4	3202.3	3179.0	3141.6
7.5°	4525.3	4184.1	3660.5	3422.1	3328.6	3281.8	3281.8	3225.7	3183.6	3211.7	3239.7
10°	4693.6	4226.1	3725.9	3487.5	3412.7	3309.9	3347.3	3277.1	3300.5	3244.4	3244.4
12.5°	4964.8	4464.6	3861.5	3585.7	3464.1	3370.6	3408.0	3328.6	3309.9	3314.5	3300.5
15°	5329.4	4623.5	3922.3	3641.8	3557.6	3440.8	3412.7	3342.6	3272.5	3249.1	3277.1
17.5°	5670.7	4819.9	3964.4	3674.5	3538.9	3408.0	3375.3	3286.5	3263.1	3193.0	3136.9
20°	6077.4	5053.6	4020.5	3702.6	3468.8	3337.9	3253.8	3164.9	3085.5	3043.4	3062.1
22.5°	6348.6	5175.2	4048.5	3646.5	3366.0	3244.4	3066.8	3006.0	2893.8	2847.0	2809.6
25°	6792.7	5324.8	3978.4	3492.2	3183.6	2987.3	2828.3	2744.2	2664.7	2603.9	2585.2
27.5°	6904.9	5437.0	3814.8	3230.4	2893.8	2688.1	2552.5	2449.7	2398.2	2304.7	2286.0
30°	7232.1	5324.8	3571.7	2912.5	2618.0	2407.6	2272.0	2197.2	2075.7	2052.3	2000.9
32.5°	7442.5	5357.5	3263.1	2603.9	2300.1	2113.1	2024.3	1949.5	1916.7	1804.5	1776.5
35°	7793.1	5245.3	2949.9	2318.8	2038.3	1893.4	1818.6	1795.2	1687.7	1636.2	1589.5
37.5°	8017.5	5179.8	2636.7	1996.2	1753.1	1692.3	1715.7	1617.5	1486.6	1388.5	1355.7
40°	8410.2	5156.5	2281.4	1729.7	1556.8	1542.7	1617.5	1430.5	1192.1	1108.0	1061.2
42.5°	8975.9	4997.5	2005.6	1491.3	1402.5	1463.3	1477.3	1192.1	1056.5	986.4	953.7
45°	9518.2	5030.2	1734.4	1234.2	1220.2	1309.0	1276.3	1009.8	930.3	878.9	906.9
47.5°	10560.7	5193.9	1467.9	1028.5	1098.6	1182.8	991.1	902.3	827.5	790.1	794.7
50°	12173.5	5352.8	1234.2	939.7	1037.8	1070.6	850.8	818.1	813.4	738.6	734.0
52.5°	13141.3	5292.0	1192.1	1051.9	1112.6	1070.6	925.6	902.3	864.9	832.1	794.7
55°	14679.3	5469.7	1280.9	1229.5	1262.2	1028.5	1037.8	1028.5	1000.4	916.3	939.7
57.5°	15904.2	5586.6	1397.8	1374.4	1355.7	1070.6	1084.6	1089.3	1070.6	1033.2	1065.9
60°	17587.1	5820.3	1519.4	1524.0	1528.7	1164.1	1187.4	1215.5	1210.8	1196.8	1206.1
62.5°	18620.3	5712.8	1654.9	1729.7	1706.4	1355.7	1351.1	1369.8	1369.8	1393.1	1407.2
65°	18466.0	5315.4	1725.1	1912.1	1790.5	1496.0	1496.0	1505.3	1510.0	1556.8	1561.4
67°	17540.4	4604.8	1687.7	1940.1	1790.5	1552.1	1552.1	1561.4	1528.7	1650.3	1612.9
67.5°	17110.3	4394.4	1654.9	1916.7	1776.5	1547.4	1547.4	1552.1	1524.0	1640.9	1603.5
70°	14880.3	3263.1	1425.9	1697.0	1645.6	1505.3	1505.3	1477.3	1453.9	1608.2	1575.5
72.5°	12701.8	2370.2	1145.4	1444.6	1486.6	1449.2	1458.6	1388.5	1323.0	1430.5	1402.5
75°	9728.6	1743.8	892.9	1112.6	1257.6	1355.7	1416.5	1238.9	1154.7	1182.8	1131.3
77.5°	5427.6	1136.0	705.9	822.8	958.4	1262.2	1360.4	1117.3	944.3	911.6	911.6
80°	1841.9	663.8	518.9	612.4	659.2	1117.3	1271.6	906.9	743.3	710.6	687.2
82.5°	696.6	406.7	355.3	420.7	420.7	883.6	1037.8	696.6	561.0	724.6	738.6
85°	317.9	243.1	233.7	243.1	243.1	542.3	734.0	453.5	504.9	434.8	383.3
87.5°	126.2	116.9	107.5	102.8	84.1	93.5	252.4	121.5	229.1	60.8	56.1
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)