

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: P476861

Luminaire Tested: **IFLD-L-SA8B-722-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476861  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-722-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

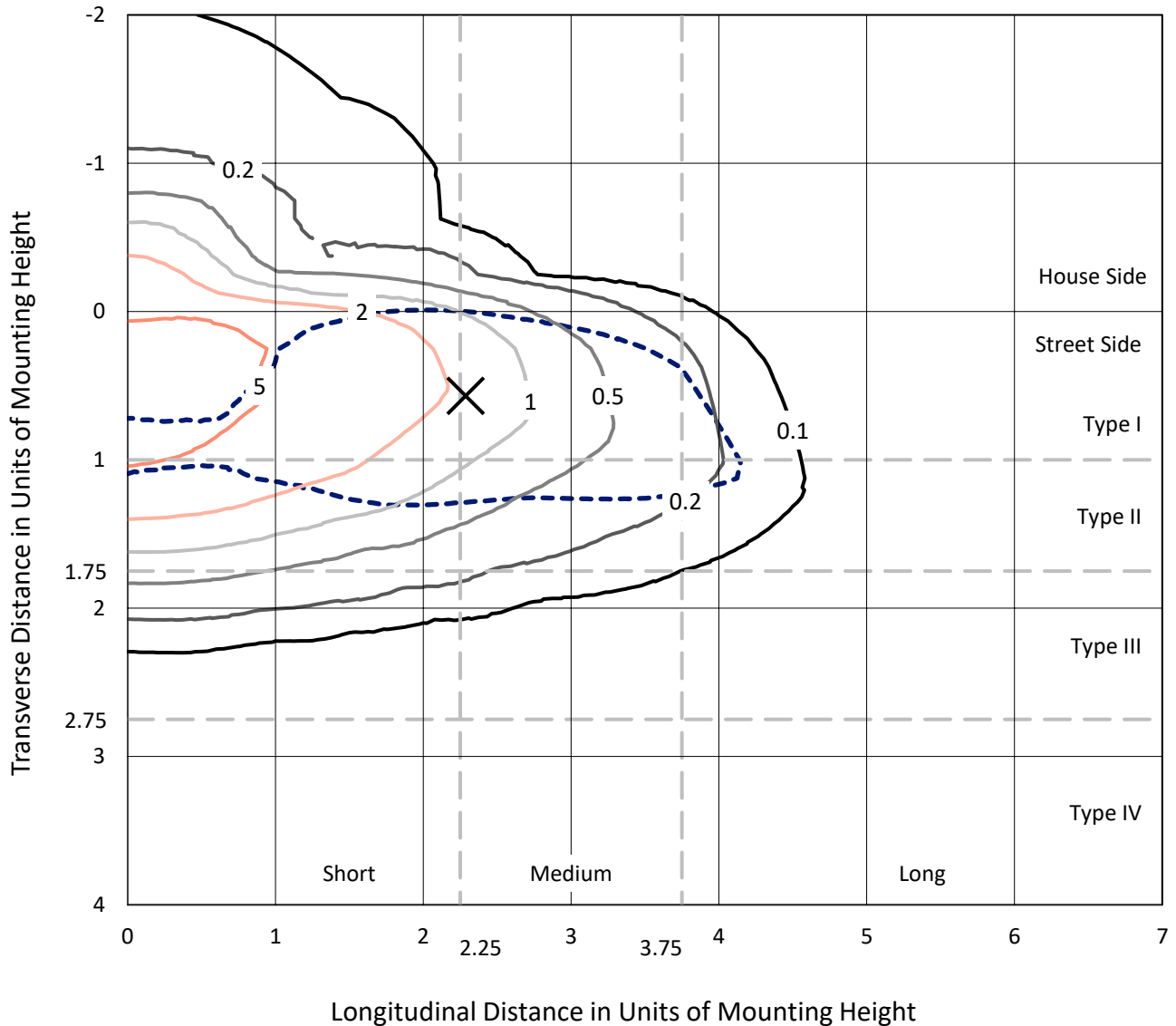
Lumens per Lamp: N/A  
Luminaire Lumens: 30147.1 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

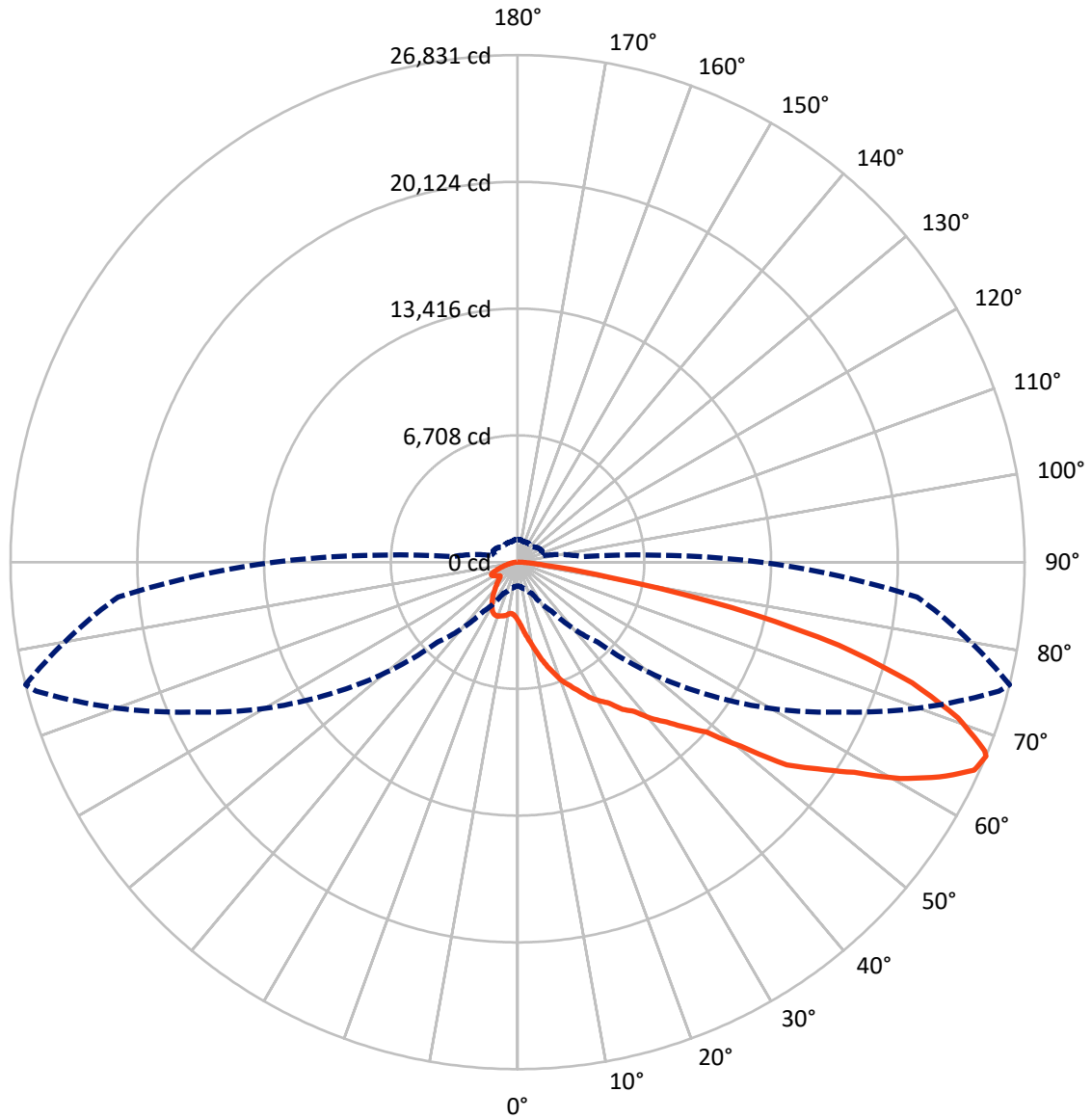
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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	4288.8	0.0	4288.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	25858.3	0.0	25858.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	30147.1	0.0	30147.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.4	1.2
10°-20°	1340.3	4.4
20°-30°	2491.8	8.3
30°-40°	3950.1	13.1
40°-50°	5463.3	18.1
50°-60°	6720.2	22.3
60°-70°	6253.5	20.7
70°-80°	3138.0	10.4
80°-90°	432.7	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°	30147.1	100.0
0°-180°	30147.1	100.0

**Coefficient of Utilization**

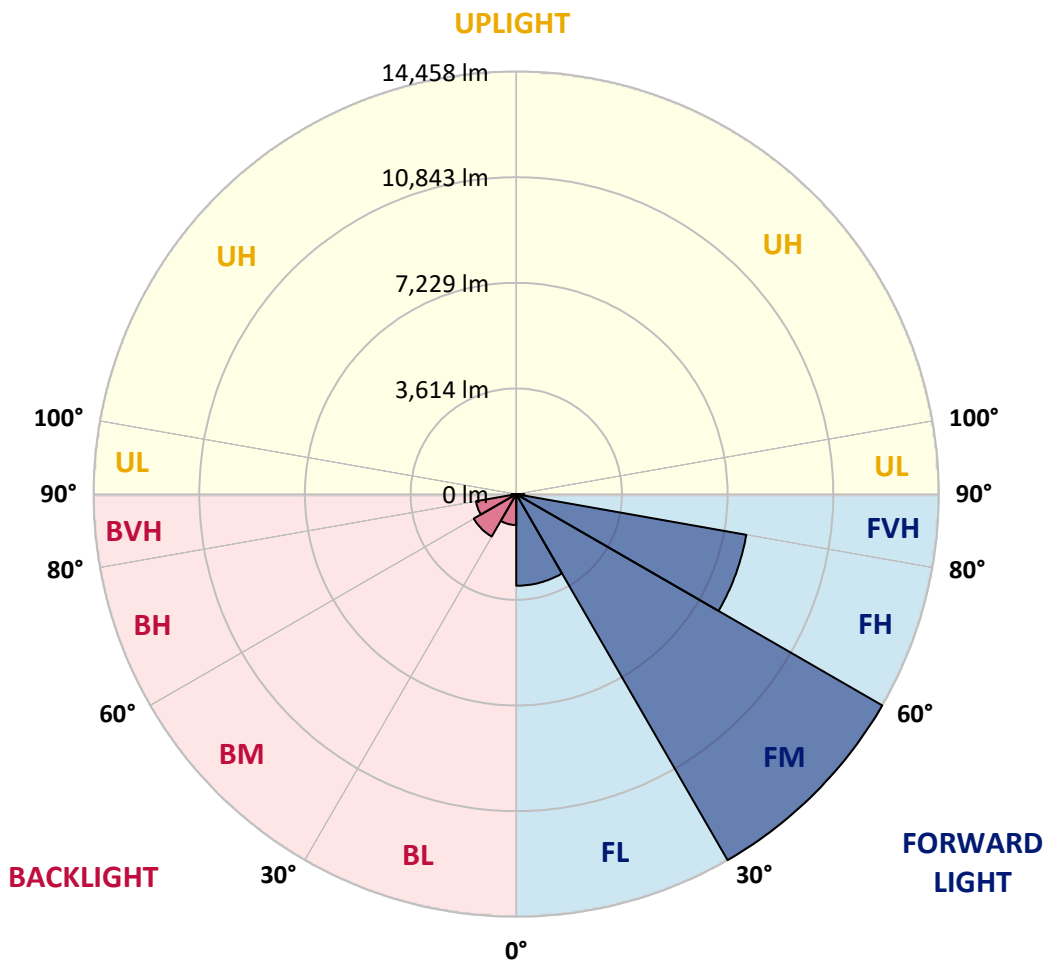


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3133.3	10.4			
FM (30°-60°)	14457.6	48.0			
FH (60°-80°)	7991.8	26.5			G4/12000
FVH (80°-90°)	275.7	0.9			G3/500
BL (0°-30°)	1056.2	3.5	B3/2500		
BM (30°-60°)	1676.0	5.6	B2/2500		
BH (60°-80°)	1399.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	157.0	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°	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1
2.5°	4280.7	4229.1	4177.6	4067.7	4029.9	3926.8	3737.8	3528.3	3356.5	3332.5	3212.2
5°	5311.3	5235.7	5218.6	5156.7	4960.9	4761.6	4452.4	4115.8	3696.6	3727.5	3315.3
7.5°	6084.3	6039.6	5946.9	5888.5	5771.7	5507.1	5187.6	4741.0	4208.5	4105.4	3545.5
10°	6668.3	6606.5	6603.1	6551.5	6489.7	6218.3	5974.4	5373.2	4689.5	4548.6	3827.2
12.5°	6963.8	6953.5	7135.6	7135.6	7111.5	6998.2	6579.0	6029.3	5146.4	5098.3	4153.5
15°	7283.3	7197.4	7355.5	7475.7	7537.5	7595.9	7249.0	6668.3	5730.5	5637.7	4504.0
17.5°	7283.3	7276.4	7434.5	7633.7	7956.7	8032.2	7843.3	7255.8	6214.9	6146.1	4888.7
20°	7159.6	7259.3	7369.2	7637.2	7987.6	8293.3	8348.3	7857.0	6750.8	6695.8	5325.1
22.5°	7736.8	7640.6	7754.0	7857.0	8128.4	8592.2	8743.4	8386.1	7314.2	7104.7	5720.1
25°	8705.6	8640.3	8557.9	8406.7	8520.1	8722.8	8953.0	8777.8	7795.2	7561.6	6101.5
27.5°	9650.4	9653.8	9475.2	9145.4	8901.4	8942.7	9214.1	9121.3	8200.6	8097.5	6362.6
30°	10993.7	10911.2	10712.0	10265.3	9787.8	9396.2	9351.5	9440.8	8715.9	8516.7	6737.1
32.5°	12000.3	12017.5	11735.7	11093.3	10440.6	10121.0	9729.4	9767.2	9042.3	8894.6	7035.9
35°	12814.5	12793.9	12594.6	12062.1	11289.1	10904.3	10375.3	10158.8	9801.5	9567.9	7492.9
37.5°	13694.0	13525.6	13202.7	12601.5	12106.8	11574.3	11058.9	10571.1	10306.6	10024.9	7884.5
40°	14047.8	14047.8	13615.0	13340.1	12752.7	12350.7	12017.5	11113.9	10921.5	10866.6	8386.1
42.5°	13797.1	13951.7	13773.0	13460.4	13219.9	12711.4	12622.1	11677.3	11680.8	11570.8	8987.3
45°	13773.0	13560.0	13412.3	13491.3	13377.9	13350.4	13577.2	12457.2	12477.8	12464.1	9794.7
47.5°	13082.5	12986.3	13206.1	13336.7	13429.5	13855.5	14508.2	13388.2	13536.0	13432.9	10725.7
50°	12395.4	12378.2	12515.6	12989.7	13391.7	14092.5	15394.6	14824.3	15308.7	15301.8	12412.5
52.5°	10512.7	10694.8	11234.2	12237.3	13230.2	14415.4	16064.5	16658.8	17583.0	17833.8	13810.8
55°	8712.5	8616.3	9413.3	10870.0	12525.9	14542.6	16813.4	17761.6	19122.1	19304.2	15246.8
57.5°	6778.3	6956.9	7585.6	8983.9	11069.3	13913.9	17363.1	18850.7	20860.5	21001.3	16913.1
60°	5057.1	5081.1	5771.7	6898.5	9131.6	12495.0	17541.8	19967.3	22853.1	23255.0	18658.3
62.5°	3181.3	3325.6	3851.2	4960.9	6874.5	10509.3	16741.3	20644.1	24941.9	25048.4	20417.3
65°	1714.3	1807.1	2202.2	2899.6	4802.9	7949.8	14618.1	20238.7	25924.4	26556.6	21200.6
67°	1267.7	1284.9	1467.0	1851.7	3212.2	5984.7	12189.2	18771.7	26371.1	26831.4	21231.5
67.5°	1188.7	1212.7	1357.0	1662.8	2848.0	5510.6	11553.7	18249.5	26171.8	26666.5	20991.0
70°	1016.9	1023.8	1058.1	1144.0	1597.5	3315.3	7867.3	14954.8	24258.2	24732.3	19304.2
72.5°	903.5	910.4	924.2	941.3	1082.2	1917.0	4785.7	11509.0	21083.8	21839.6	16655.4
75°	793.6	817.7	824.5	810.8	920.7	1247.1	2545.7	8458.3	17198.2	17565.8	12951.9
77.5°	673.4	683.7	697.4	711.2	821.1	931.0	1223.0	5709.8	11804.5	11581.1	7005.0
80°	566.9	570.3	580.6	590.9	711.2	711.2	694.0	3085.1	5156.7	4930.0	2367.1
82.5°	405.4	429.4	453.5	481.0	590.9	477.5	453.5	1374.2	1631.9	1552.9	800.5
85°	158.0	192.4	298.9	329.8	374.5	257.7	302.3	594.3	680.2	673.4	298.9
87.5°	27.5	30.9	82.5	127.1	137.4	89.3	144.3	213.0	254.2	274.8	109.9
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°	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1	3085.1
2.5°	3112.6	3006.1	2879.0	2751.9	2669.4	2538.9	2528.5	2449.5	2439.2	2411.7	2425.5
5°	3136.6	3009.5	2751.9	2549.2	2456.4	2380.8	2398.0	2363.6	2353.3	2336.2	2308.7
7.5°	3325.6	3074.8	2690.0	2514.8	2446.1	2411.7	2411.7	2370.5	2339.6	2360.2	2380.8
10°	3449.3	3105.7	2738.1	2562.9	2507.9	2432.3	2459.8	2408.3	2425.5	2384.3	2384.3
12.5°	3648.5	3280.9	2837.7	2635.0	2545.7	2477.0	2504.5	2446.1	2432.3	2435.8	2425.5
15°	3916.5	3397.7	2882.4	2676.3	2614.4	2528.5	2507.9	2456.4	2404.9	2387.7	2408.3
17.5°	4167.3	3542.0	2913.3	2700.3	2600.7	2504.5	2480.4	2415.2	2398.0	2346.5	2305.2
20°	4466.2	3713.8	2954.5	2720.9	2549.2	2453.0	2391.1	2325.8	2267.4	2236.5	2250.3
22.5°	4665.4	3803.1	2975.2	2679.7	2473.6	2384.3	2253.7	2209.0	2126.6	2092.2	2064.7
25°	4991.8	3913.1	2923.6	2566.3	2339.6	2195.3	2078.5	2016.7	1958.2	1913.6	1899.8
27.5°	5074.3	3995.5	2803.4	2373.9	2126.6	1975.4	1875.8	1800.2	1762.4	1693.7	1680.0
30°	5314.8	3913.1	2624.7	2140.3	1923.9	1769.3	1669.7	1614.7	1525.4	1508.2	1470.4
32.5°	5469.4	3937.1	2398.0	1913.6	1690.3	1552.9	1487.6	1432.6	1408.6	1326.1	1305.5
35°	5727.0	3854.7	2167.8	1704.0	1497.9	1391.4	1336.4	1319.2	1240.2	1202.4	1168.1
37.5°	5891.9	3806.6	1937.6	1467.0	1288.3	1243.7	1260.8	1188.7	1092.5	1020.3	996.3
40°	6180.5	3789.4	1676.5	1271.1	1144.0	1133.7	1188.7	1051.3	876.1	814.2	779.9
42.5°	6596.2	3672.6	1473.8	1095.9	1030.7	1075.3	1085.6	876.1	776.4	724.9	700.8
45°	6994.7	3696.6	1274.6	907.0	896.7	961.9	937.9	742.1	683.7	645.9	666.5
47.5°	7760.8	3816.9	1078.8	755.8	807.3	869.2	728.3	663.1	608.1	580.6	584.0
50°	8946.1	3933.7	907.0	690.5	762.7	786.7	625.3	601.2	597.8	542.8	539.4
52.5°	9657.3	3889.0	876.1	773.0	817.7	786.7	680.2	663.1	635.6	611.5	584.0
55°	10787.5	4019.6	941.3	903.5	927.6	755.8	762.7	755.8	735.2	673.4	690.5
57.5°	11687.6	4105.4	1027.2	1010.0	996.3	786.7	797.0	800.5	786.7	759.3	783.3
60°	12924.4	4277.2	1116.5	1120.0	1123.4	855.4	872.6	893.2	889.8	879.5	886.4
62.5°	13683.7	4198.2	1216.2	1271.1	1254.0	996.3	992.9	1006.6	1006.6	1023.8	1034.1
65°	13570.3	3906.2	1267.7	1405.1	1315.8	1099.4	1099.4	1106.2	1109.7	1144.0	1147.5
67°	12890.1	3384.0	1240.2	1425.7	1315.8	1140.6	1140.6	1147.5	1123.4	1212.7	1185.3
67.5°	12574.0	3229.4	1216.2	1408.6	1305.5	1137.2	1137.2	1140.6	1120.0	1205.9	1178.4
70°	10935.3	2398.0	1047.8	1247.1	1209.3	1106.2	1106.2	1085.6	1068.4	1181.8	1157.8
72.5°	9334.3	1741.8	841.7	1061.6	1092.5	1065.0	1071.9	1020.3	972.3	1051.3	1030.7
75°	7149.3	1281.4	656.2	817.7	924.2	996.3	1041.0	910.4	848.6	869.2	831.4
77.5°	3988.6	834.8	518.8	604.7	704.3	927.6	999.7	821.1	694.0	669.9	669.9
80°	1353.6	487.8	381.3	450.1	484.4	821.1	934.5	666.5	546.2	522.2	505.0
82.5°	511.9	298.9	261.1	309.2	309.2	649.3	762.7	511.9	412.3	532.5	542.8
85°	233.6	178.6	171.8	178.6	178.6	398.5	539.4	333.2	371.0	319.5	281.7
87.5°	92.8	85.9	79.0	75.6	61.8	68.7	185.5	89.3	168.3	44.7	41.2
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)