

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: P477120

Luminaire Tested: **IFLD-S-SA6C-827-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477120  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6C-827-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

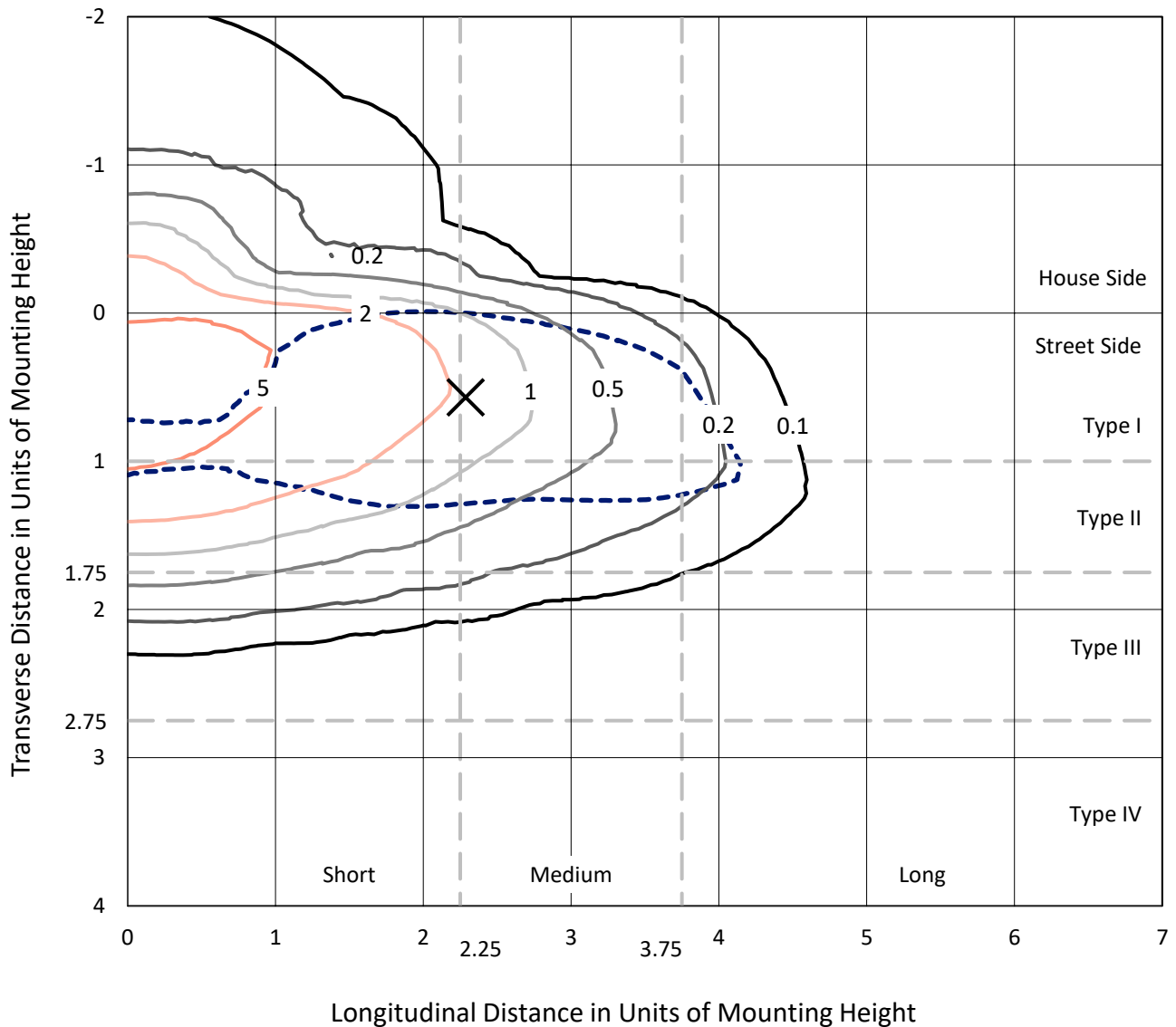
Lumens per Lamp: N/A  
Luminaire Lumens: 30716.4 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 321.5  
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

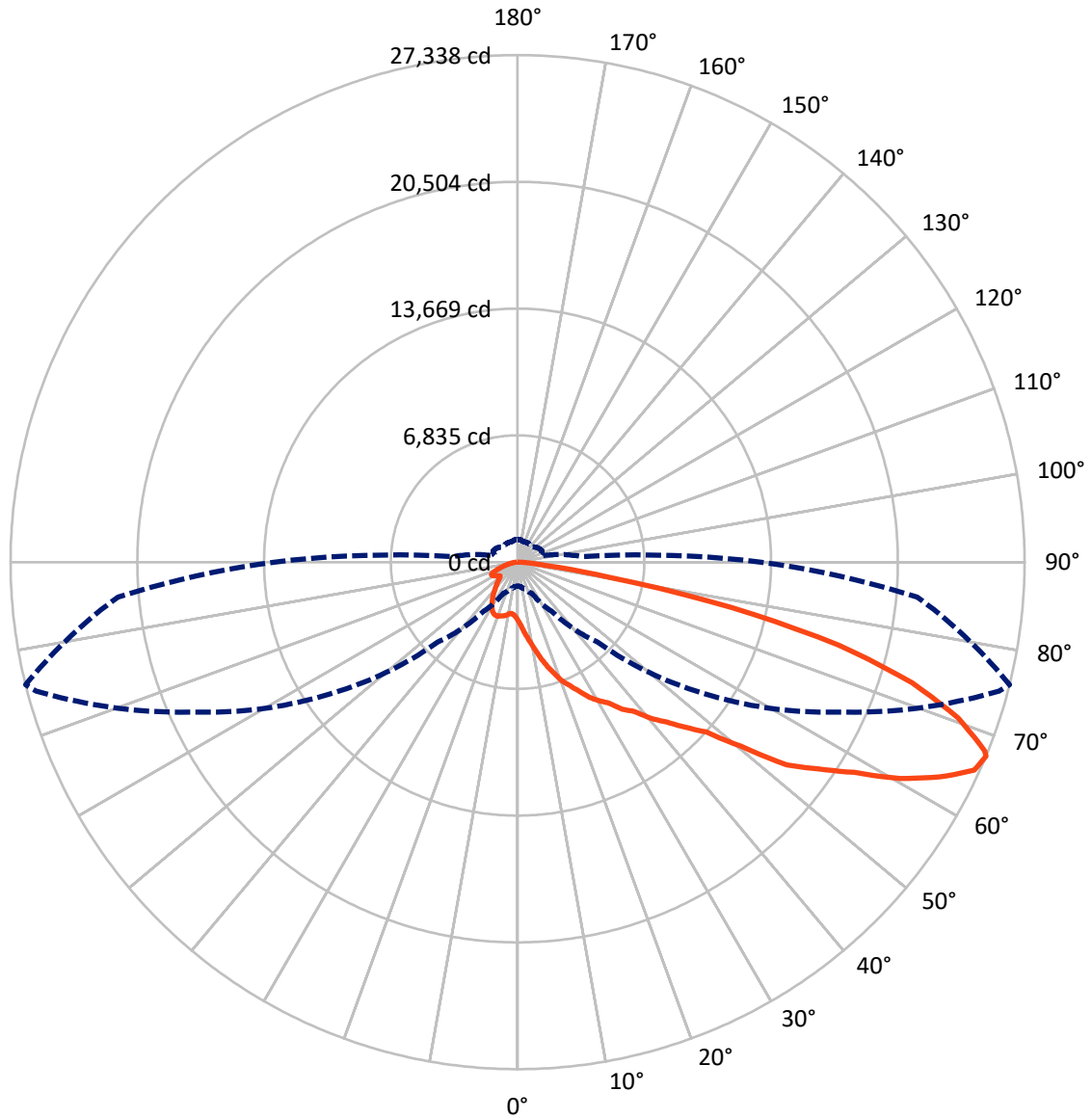
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 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	4369.8	0.0	4369.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	26346.6	0.0	26346.6
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	30716.4	0.0	30716.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	364.1	1.2
10°-20°	1365.6	4.4
20°-30°	2538.9	8.3
30°-40°	4024.7	13.1
40°-50°	5566.5	18.1
50°-60°	6847.1	22.3
60°-70°	6371.5	20.7
70°-80°	3197.2	10.4
80°-90°	440.8	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°	30716.4	100.0
0°-180°	30716.4	100.0

**Coefficient of Utilization**



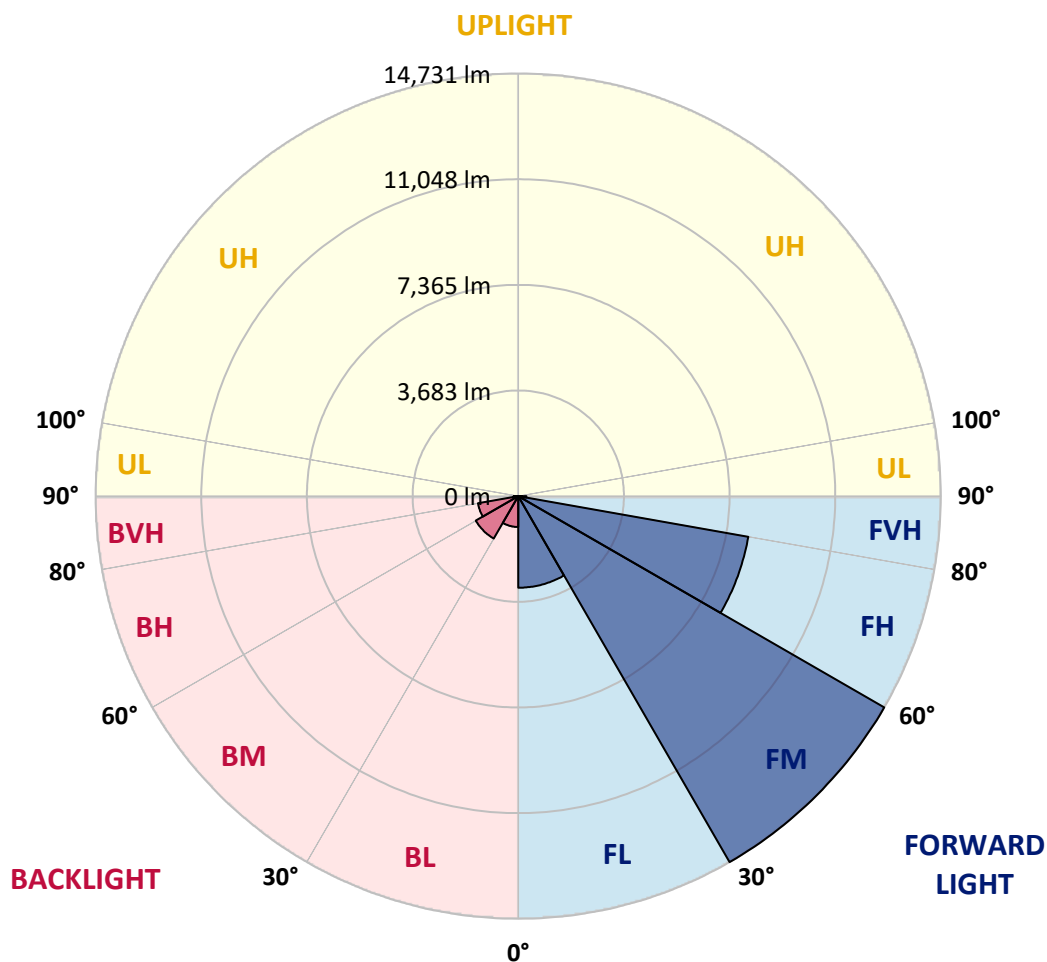
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3192.5	10.4			
FM (30°-60°)	14730.6	48.0			
FH (60°-80°)	8142.7	26.5			G4/12000
FVH (80°-90°)	280.9	0.9			G3/500
BL (0°-30°)	1076.1	3.5	B3/2500		
BM (30°-60°)	1707.6	5.6	B2/2500		
BH (60°-80°)	1426.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	160.0	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°	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4
2.5°	4361.5	4309.0	4256.5	4144.5	4106.0	4001.0	3808.4	3594.9	3419.9	3395.4	3272.9
5°	5411.6	5334.6	5317.1	5254.1	5054.6	4851.5	4536.5	4193.5	3766.4	3797.9	3377.9
7.5°	6199.2	6153.7	6059.2	5999.7	5880.7	5611.1	5285.6	4830.5	4288.0	4183.0	3612.4
10°	6794.3	6731.3	6727.8	6675.3	6612.2	6335.7	6087.2	5474.6	4778.0	4634.5	3899.4
12.5°	7095.3	7084.8	7270.3	7270.3	7245.8	7130.3	6703.3	6143.2	5243.6	5194.6	4232.0
15°	7420.8	7333.3	7494.3	7616.9	7679.9	7739.4	7385.8	6794.3	5838.7	5744.1	4589.0
17.5°	7420.8	7413.8	7574.9	7777.9	8106.9	8183.9	7991.4	7392.8	6332.2	6262.2	4981.1
20°	7294.8	7396.3	7508.3	7781.4	8138.4	8450.0	8506.0	8005.4	6878.3	6822.3	5425.6
22.5°	7882.9	7784.9	7900.4	8005.4	8281.9	8754.5	8908.5	8544.5	7452.3	7238.8	5828.2
25°	8870.0	8803.5	8719.5	8565.5	8681.0	8887.5	9122.0	8943.5	7942.4	7704.4	6216.7
27.5°	9832.6	9836.1	9654.1	9318.1	9069.5	9111.5	9388.1	9293.5	8355.4	8250.4	6482.7
30°	11201.3	11117.3	10914.2	10459.2	9972.6	9573.6	9528.1	9619.1	8880.5	8677.5	6864.3
32.5°	12226.9	12244.4	11957.4	11302.8	10637.7	10312.2	9913.1	9951.6	9213.0	9062.5	7168.8
35°	13056.5	13035.5	12832.4	12289.9	11502.3	11110.3	10571.2	10350.7	9986.6	9748.6	7634.4
37.5°	13952.6	13781.1	13452.0	12839.4	12335.4	11792.8	11267.8	10770.7	10501.2	10214.2	8033.4
40°	14313.1	14313.1	13872.1	13592.0	12993.5	12583.9	12244.4	11323.8	11127.8	11071.8	8544.5
42.5°	14057.6	14215.1	14033.1	13714.5	13469.5	12951.5	12860.5	11897.8	11901.3	11789.3	9157.0
45°	14033.1	13816.1	13665.5	13746.1	13630.5	13602.5	13833.6	12692.4	12713.4	12699.4	9979.6
47.5°	13329.5	13231.5	13455.5	13588.5	13683.0	14117.1	14782.2	13641.0	13791.6	13686.5	10928.2
50°	12629.4	12611.9	12751.9	13235.0	13644.5	14358.6	15685.3	15104.2	15597.8	15590.8	12646.9
52.5°	10711.2	10896.7	11446.3	12468.4	13480.0	14687.7	16367.8	16973.4	17915.0	18170.6	14071.6
55°	8877.0	8779.0	9591.1	11075.3	12762.4	14817.2	17130.9	18097.0	19483.2	19668.7	15534.8
57.5°	6906.3	7088.3	7728.9	9153.5	11278.3	14176.6	17691.0	19206.7	21254.4	21397.9	17232.4
60°	5152.6	5177.1	5880.7	7028.8	9304.1	12730.9	17873.0	20344.3	23284.6	23694.2	19010.6
62.5°	3241.4	3388.4	3923.9	5054.6	7004.3	10707.7	17057.4	21033.9	25412.9	25521.4	20802.8
65°	1746.7	1841.2	2243.8	2954.3	4893.6	8099.9	14894.2	20620.8	26414.0	27058.1	21600.9
67°	1291.6	1309.1	1494.7	1886.7	3272.9	6097.7	12419.4	19126.2	26869.0	27338.1	21632.4
67.5°	1211.1	1235.6	1382.7	1694.2	2901.8	5614.6	11771.8	18594.1	26666.0	27170.1	21387.4
70°	1036.1	1043.1	1078.1	1165.6	1627.7	3377.9	8015.9	15237.2	24716.3	25199.3	19668.7
72.5°	920.6	927.6	941.6	959.1	1102.6	1953.2	4876.1	11726.3	21481.9	22252.0	16969.9
75°	808.6	833.1	840.1	826.1	938.1	1270.6	2593.8	8618.0	17523.0	17897.5	13196.5
77.5°	686.1	696.6	710.6	724.6	836.6	948.6	1246.1	5817.7	12027.4	11799.8	7137.3
80°	577.6	581.1	591.6	602.1	724.6	724.6	707.1	3143.4	5254.1	5023.1	2411.8
82.5°	413.0	437.5	462.1	490.1	602.1	486.6	462.1	1400.2	1662.7	1582.2	815.6
85°	161.0	196.0	304.5	336.0	381.5	262.5	308.0	605.6	693.1	686.1	304.5
87.5°	28.0	31.5	84.0	129.5	140.0	91.0	147.0	217.0	259.0	280.0	112.0
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°	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4	3143.4
2.5°	3171.4	3062.8	2933.3	2803.8	2719.8	2586.8	2576.3	2495.8	2485.3	2457.3	2471.3
5°	3195.9	3066.3	2803.8	2597.3	2502.8	2425.8	2443.3	2408.3	2397.8	2380.3	2352.3
7.5°	3388.4	3132.9	2740.8	2562.3	2492.3	2457.3	2457.3	2415.3	2383.8	2404.8	2425.8
10°	3514.4	3164.4	2789.8	2611.3	2555.3	2478.3	2506.3	2453.8	2471.3	2429.3	2429.3
12.5°	3717.4	3342.9	2891.3	2684.8	2593.8	2523.8	2551.8	2492.3	2478.3	2481.8	2471.3
15°	3990.5	3461.9	2936.8	2726.8	2663.8	2576.3	2555.3	2502.8	2450.3	2432.8	2453.8
17.5°	4246.0	3608.9	2968.3	2751.3	2649.8	2551.8	2527.3	2460.8	2443.3	2390.8	2348.8
20°	4550.5	3783.9	3010.3	2772.3	2597.3	2499.3	2436.3	2369.8	2310.3	2278.8	2292.8
22.5°	4753.5	3874.9	3031.3	2730.3	2520.3	2429.3	2296.3	2250.8	2166.7	2131.7	2103.7
25°	5086.1	3987.0	2978.8	2614.8	2383.8	2236.8	2117.7	2054.7	1995.2	1949.7	1935.7
27.5°	5170.1	4071.0	2856.3	2418.8	2166.7	2012.7	1911.2	1834.2	1795.7	1725.7	1711.7
30°	5415.1	3987.0	2674.3	2180.7	1960.2	1802.7	1701.2	1645.2	1554.2	1536.7	1498.2
32.5°	5572.6	4011.5	2443.3	1949.7	1722.2	1582.2	1515.7	1459.7	1435.2	1351.2	1330.2
35°	5835.2	3927.4	2208.7	1736.2	1526.2	1417.7	1361.7	1344.2	1263.6	1225.1	1190.1
37.5°	6003.2	3878.4	1974.2	1494.7	1312.6	1267.1	1284.6	1211.1	1113.1	1039.6	1015.1
40°	6297.2	3860.9	1708.2	1295.1	1165.6	1155.1	1211.1	1071.1	892.6	829.6	794.6
42.5°	6720.8	3741.9	1501.7	1116.6	1050.1	1095.6	1106.1	892.6	791.1	738.6	714.1
45°	7126.8	3766.4	1298.6	924.1	913.6	980.1	955.6	756.1	696.6	658.1	679.1
47.5°	7907.4	3888.9	1099.1	770.1	822.6	885.6	742.1	675.6	619.6	591.6	595.1
50°	9115.0	4008.0	924.1	703.6	777.1	801.6	637.1	612.6	609.1	553.1	549.6
52.5°	9839.6	3962.4	892.6	787.6	833.1	801.6	693.1	675.6	647.6	623.1	595.1
55°	10991.2	4095.5	959.1	920.6	945.1	770.1	777.1	770.1	749.1	686.1	703.6
57.5°	11908.3	4183.0	1046.6	1029.1	1015.1	801.6	812.1	815.6	801.6	773.6	798.1
60°	13168.5	4358.0	1137.6	1141.1	1144.6	871.6	889.1	910.1	906.6	896.1	903.1
62.5°	13942.1	4277.5	1239.1	1295.1	1277.6	1015.1	1011.6	1025.6	1025.6	1043.1	1053.6
65°	13826.6	3979.9	1291.6	1431.7	1340.7	1120.1	1120.1	1127.1	1130.6	1165.6	1169.1
67°	13133.5	3447.9	1263.6	1452.7	1340.7	1162.1	1162.1	1169.1	1144.6	1235.6	1207.6
67.5°	12811.4	3290.4	1239.1	1435.2	1330.2	1158.6	1158.6	1162.1	1141.1	1228.6	1200.6
70°	11141.8	2443.3	1067.6	1270.6	1232.1	1127.1	1127.1	1106.1	1088.6	1204.1	1179.6
72.5°	9510.6	1774.7	857.6	1081.6	1113.1	1085.1	1092.1	1039.6	990.6	1071.1	1050.1
75°	7284.3	1305.6	668.6	833.1	941.6	1015.1	1060.6	927.6	864.6	885.6	847.1
77.5°	4064.0	850.6	528.6	616.1	717.6	945.1	1018.6	836.6	707.1	682.6	682.6
80°	1379.2	497.1	388.5	458.6	493.6	836.6	952.1	679.1	556.6	532.1	514.6
82.5°	521.6	304.5	266.0	315.0	315.0	661.6	777.1	521.6	420.0	542.6	553.1
85°	238.0	182.0	175.0	182.0	182.0	406.0	549.6	339.5	378.0	325.5	287.0
87.5°	94.5	87.5	80.5	77.0	63.0	70.0	189.0	91.0	171.5	45.5	42.0
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)