

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: P476755

Luminaire Tested: **IFLD-S-SA3D-830-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476755  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

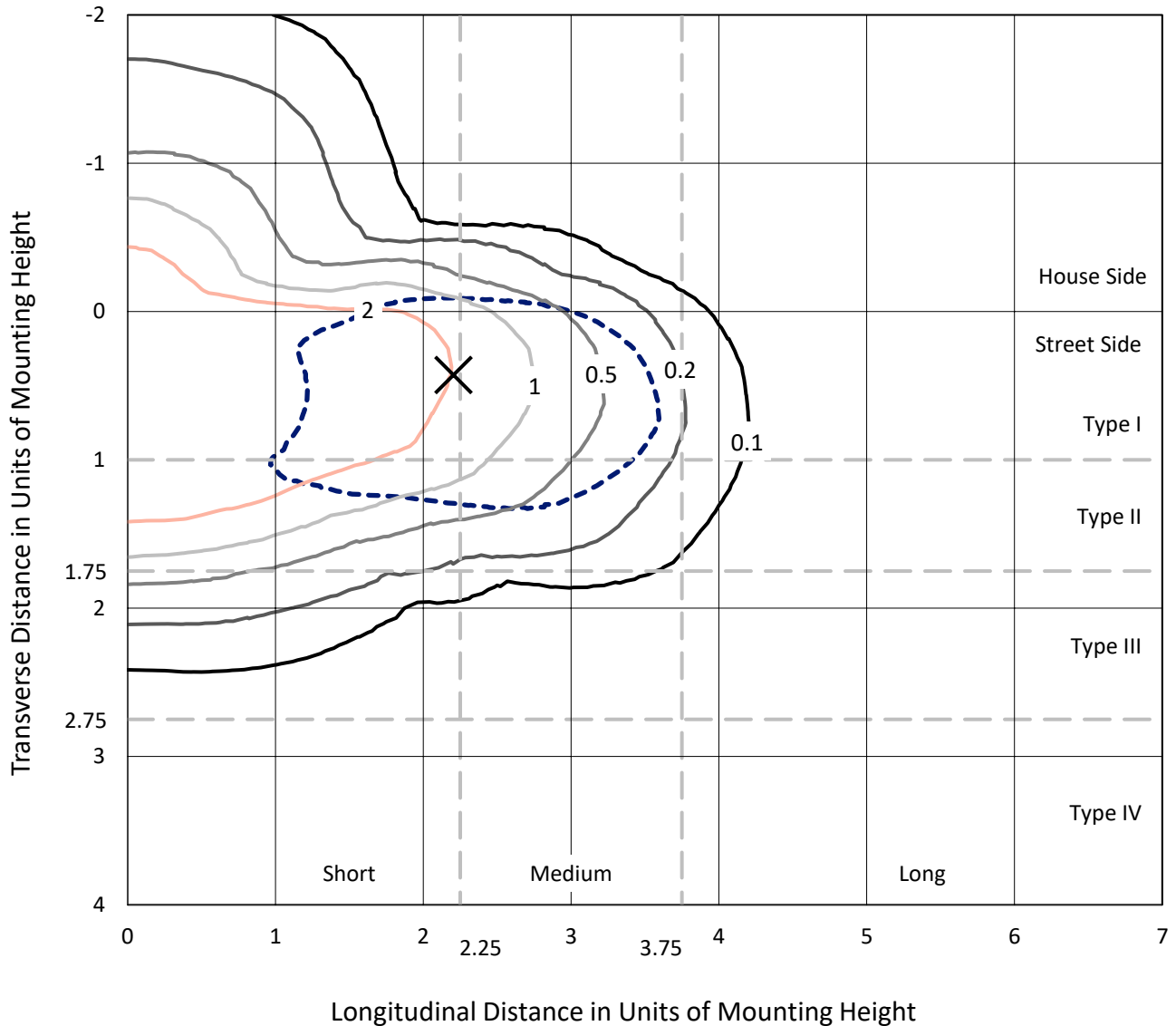
Lumens per Lamp: N/A  
Luminaire Lumens: 18497.4 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 184.1  
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

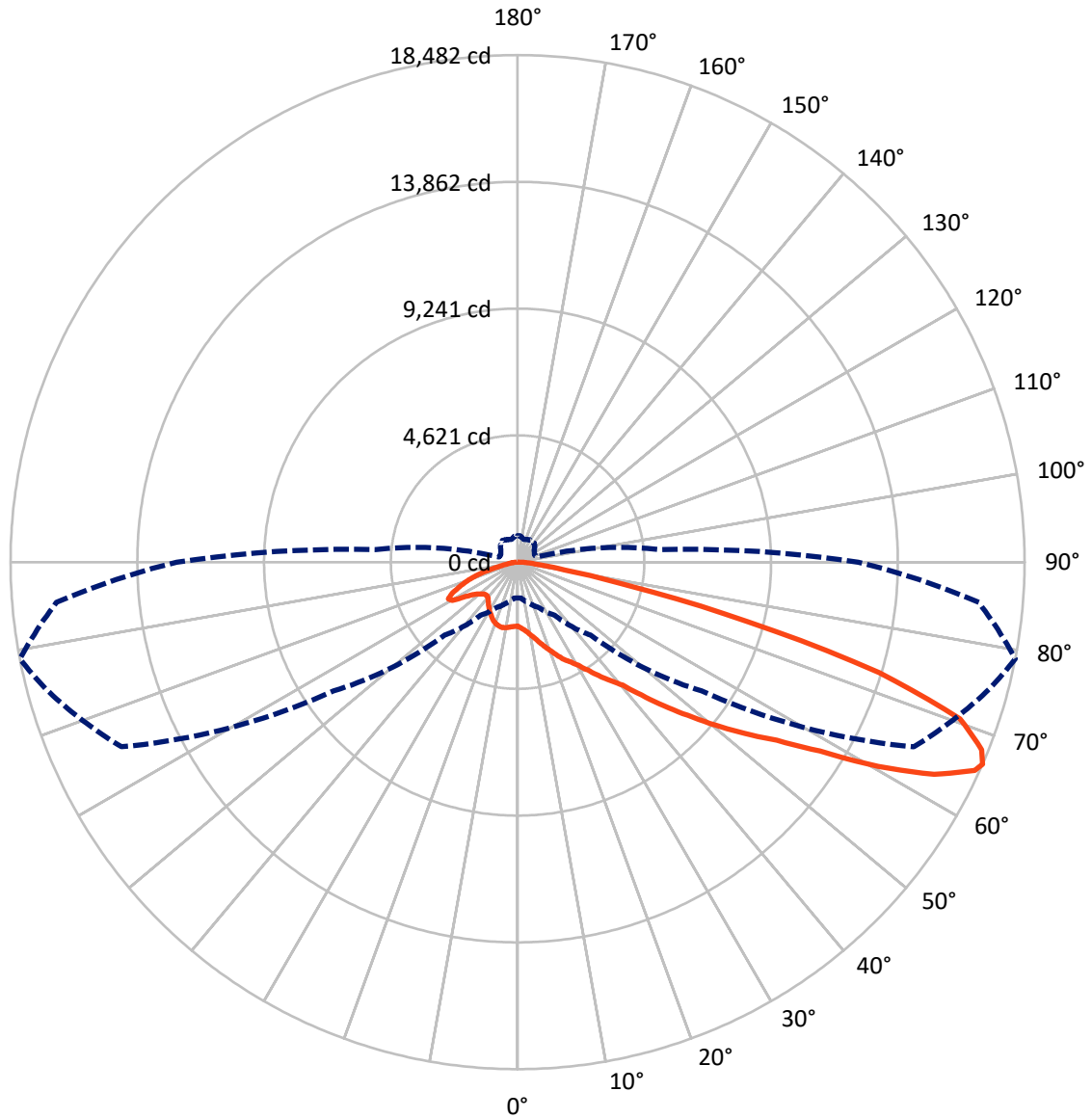
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3735.3	0.0	3735.3
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	14762.1	0.0	14762.1
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	18497.4	0.0	18497.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.7	1.2
10°-20°	709.2	3.8
20°-30°	1217.4	6.6
30°-40°	1880.6	10.2
40°-50°	3012.3	16.3
50°-60°	4497.5	24.3
60°-70°	4621.2	25.0
70°-80°	2048.5	11.1
80°-90°	281.1	1.5
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°	18497.4	100.0
0°-180°	18497.4	100.0

**Coefficient of Utilization**



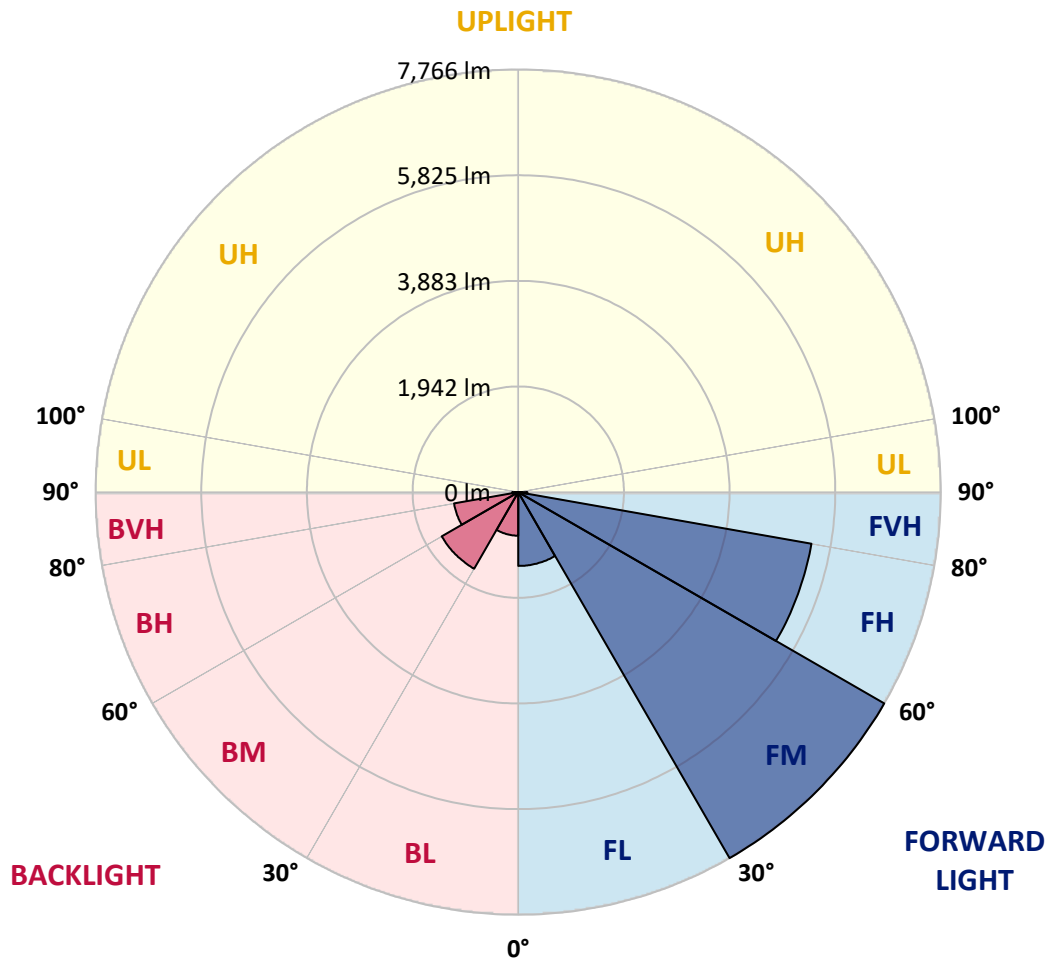
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.0	7.3			
FM (30°-60°)	7766.4	42.0			
FH (60°-80°)	5471.1	29.6			G3/7500
FVH (80°-90°)	168.6	0.9			G2/225
BL (0°-30°)	800.3	4.3	B2/1000		
BM (30°-60°)	1623.9	8.8	B2/2500		
BH (60°-80°)	1198.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	112.5	0.6			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7
2.5°	2484.2	2486.3	2486.3	2478.1	2480.2	2486.3	2463.9	2415.1	2415.1	2406.9	2392.7
5°	2636.8	2626.7	2612.4	2614.4	2606.3	2606.3	2581.9	2535.1	2494.4	2478.1	2435.4
7.5°	2657.2	2667.3	2665.3	2689.7	2701.9	2701.9	2714.1	2675.5	2614.4	2575.8	2533.1
10°	2697.9	2671.4	2669.4	2726.3	2744.7	2787.4	2836.2	2815.9	2765.0	2710.1	2653.1
12.5°	2722.3	2738.6	2738.6	2767.0	2809.8	2872.8	2958.3	2996.9	2917.6	2860.6	2773.1
15°	2758.9	2736.5	2801.6	2826.0	2907.4	2952.2	3074.3	3174.0	3121.1	3051.9	2913.5
17.5°	2775.2	2760.9	2797.6	2842.3	2980.7	3047.8	3196.3	3334.7	3289.9	3245.2	3102.7
20°	2858.6	2856.6	2872.8	2909.5	3009.2	3141.4	3326.6	3517.8	3534.1	3452.7	3259.4
22.5°	3062.1	3035.6	3035.6	3021.4	3064.1	3200.4	3450.7	3715.2	3788.4	3692.8	3436.4
25°	3249.2	3285.9	3263.5	3198.4	3182.1	3253.3	3540.2	3924.7	4022.4	3932.9	3676.5
27.5°	3489.3	3501.5	3540.2	3452.7	3340.8	3363.2	3637.8	4042.7	4244.2	4124.1	3812.8
30°	3835.2	3812.8	3804.7	3707.0	3560.5	3530.0	3749.7	4215.7	4535.1	4366.2	3973.6
32.5°	4069.2	4124.1	4122.1	3987.8	3810.8	3743.6	3888.1	4378.4	4846.4	4689.7	4270.6
35°	4533.1	4590.0	4545.3	4347.9	4140.4	4006.1	4087.5	4590.0	5202.4	5080.4	4522.9
37.5°	5125.1	5259.4	5163.8	4799.6	4506.6	4360.1	4364.2	4819.9	5566.6	5466.9	4793.5
40°	5534.1	5715.2	5582.9	5241.1	4929.8	4791.5	4736.5	5092.6	6002.0	5896.2	5216.7
42.5°	6040.7	6191.3	6122.1	5784.3	5420.1	5302.1	5192.3	5548.3	6667.3	6618.5	5759.9
45°	6594.1	6665.3	6642.9	6429.3	6024.4	5983.7	5741.6	6148.5	7450.7	7471.0	6439.5
47.5°	7108.9	7147.5	7190.2	7035.6	6783.3	6817.9	6374.4	6791.5	8211.6	8345.9	7196.3
50°	7241.1	7373.4	7473.0	7576.8	7631.7	7865.7	7072.2	7580.9	9086.5	9346.9	8038.7
52.5°	7106.8	7096.6	7399.8	7725.3	8274.7	8765.0	8022.4	8561.6	9859.6	10374.4	8809.8
55°	6496.4	6476.1	6964.4	7395.7	8468.0	9265.5	9379.5	9867.8	10793.5	11462.9	9853.5
57.5°	5428.3	5302.1	5835.2	6543.2	8048.8	9320.5	10742.6	11806.7	12229.9	12992.9	11446.6
60°	3648.0	3595.1	4105.8	4950.2	6535.1	8541.2	11558.5	14234.0	14254.3	15112.9	13918.6
62.5°	2246.2	2256.4	2583.9	3216.7	4575.8	6771.1	11206.5	16172.9	16177.0	17037.6	15953.2
65°	1469.0	1475.1	1739.6	2089.5	2858.6	4592.1	9267.6	16325.5	17513.7	18313.3	16885.1
66°	1308.2	1310.3	1538.1	1823.0	2368.3	3757.9	8185.2	15928.8	17814.9	18482.2	16872.8
67.5°	1102.7	1129.2	1312.3	1532.0	1847.4	2699.9	6494.4	14781.3	17660.2	18246.2	16490.3
70°	862.7	876.9	1021.4	1245.2	1385.6	1562.6	3859.6	12048.8	16164.8	17115.0	15098.7
72.5°	691.8	704.0	813.8	1011.2	1125.1	1029.5	2101.7	8742.6	12769.1	13782.3	11875.9
75°	583.9	586.0	638.9	795.5	925.7	773.1	1119.0	5611.4	8193.3	8665.3	7275.7
77.5°	472.0	480.2	516.8	606.3	744.7	608.3	667.3	3143.4	4113.9	4148.5	3363.2
80°	384.5	388.6	411.0	441.5	567.7	449.6	451.7	1534.1	1764.0	1723.3	1367.2
82.5°	303.2	307.2	333.7	327.6	417.1	321.5	280.8	738.6	811.8	795.5	628.7
85°	170.9	170.9	262.5	262.5	264.5	203.5	170.9	347.9	429.3	400.8	295.0
87.5°	54.9	57.0	79.3	83.4	132.2	91.6	83.4	130.2	203.5	179.0	105.8
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°	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7	2335.7
2.5°	2384.5	2352.0	2337.7	2290.9	2278.7	2248.2	2234.0	2215.7	2209.6	2183.1	2207.5
5°	2402.8	2392.7	2335.7	2276.7	2231.9	2211.6	2181.1	2140.4	2136.3	2099.7	2095.6
7.5°	2480.2	2445.6	2345.9	2282.8	2193.3	2142.4	2075.3	2054.9	2028.5	2016.3	2042.7
10°	2600.2	2512.7	2364.2	2205.5	2095.6	2034.6	1985.8	1971.5	1973.6	1965.4	1953.2
12.5°	2685.7	2602.2	2333.7	2140.4	1998.0	1939.0	1934.9	1949.1	1971.5	1961.3	1975.6
15°	2807.7	2651.1	2311.3	2032.6	1918.6	1902.3	1900.3	1943.0	1941.0	1941.0	1939.0
17.5°	2921.7	2699.9	2229.9	1939.0	1835.2	1847.4	1861.6	1859.6	1880.0	1888.1	1902.3
20°	3066.1	2756.9	2116.0	1845.4	1772.1	1768.1	1766.0	1768.1	1788.4	1800.6	1790.4
22.5°	3192.3	2769.1	2020.3	1755.9	1696.8	1680.6	1654.1	1680.6	1670.4	1674.5	1686.7
25°	3302.1	2771.1	1884.0	1688.7	1621.6	1584.9	1564.6	1562.6	1544.3	1542.2	1542.2
27.5°	3393.7	2701.9	1764.0	1595.1	1532.0	1497.5	1495.4	1473.0	1426.2	1395.7	1399.8
30°	3464.9	2649.0	1680.6	1513.7	1452.7	1446.6	1428.3	1377.4	1316.4	1277.7	1277.7
32.5°	3591.0	2543.2	1566.6	1430.3	1399.8	1391.7	1348.9	1304.2	1247.2	1210.6	1204.5
35°	3684.6	2445.6	1491.4	1359.1	1344.9	1328.6	1292.0	1243.1	1226.9	1218.7	1224.8
37.5°	3790.4	2335.7	1399.8	1298.1	1312.3	1281.8	1239.1	1216.7	1273.7	1259.4	1265.5
40°	3959.3	2258.4	1310.3	1261.4	1275.7	1241.1	1186.2	1178.0	1249.2	1198.4	1186.2
42.5°	4268.6	2256.4	1255.3	1206.5	1216.7	1190.2	1141.4	1137.3	1165.8	1104.8	1086.5
45°	4653.1	2327.6	1214.6	1165.8	1157.7	1153.6	1137.3	1119.0	1094.6	1015.3	994.9
47.5°	5112.9	2443.5	1206.5	1104.8	1115.0	1149.5	1129.2	1082.4	1019.3	968.5	958.3
50°	5670.4	2683.6	1186.2	1060.0	1078.3	1133.3	1117.0	1051.9	994.9	962.4	956.3
52.5°	6286.9	2986.8	1159.7	990.8	1031.5	1119.0	1127.2	1066.1	982.7	954.2	950.2
55°	7013.2	3434.4	1129.2	915.6	976.6	1104.8	1127.2	1025.4	966.4	966.4	962.4
57.5°	8447.6	4240.1	1066.1	846.4	927.8	1078.3	1094.6	1027.5	968.5	968.5	960.3
60°	10551.4	5497.5	946.1	793.5	881.0	1041.7	1070.2	996.9	946.1	958.3	956.3
62.5°	12197.4	5880.0	844.4	742.6	834.2	974.6	1037.6	964.4	919.6	964.4	968.5
65°	12549.3	5493.4	740.6	687.7	769.1	909.5	990.8	917.6	881.0	968.5	972.5
66°	12423.2	5192.3	704.0	671.4	740.6	876.9	962.4	901.3	860.6	964.4	966.4
67.5°	11861.7	4740.6	663.3	636.8	701.9	830.1	929.8	878.9	828.1	952.2	933.9
70°	10640.9	4020.3	594.1	575.8	647.0	752.8	854.5	822.0	777.2	876.9	844.4
72.5°	8195.3	3212.6	520.9	522.9	583.9	673.4	779.2	756.9	718.2	769.1	748.7
75°	4990.8	2052.9	453.7	457.8	508.6	598.2	708.0	691.8	645.0	673.4	663.3
77.5°	2211.6	1017.3	382.5	390.6	431.3	527.0	616.5	590.0	541.2	547.3	543.2
80°	858.6	482.2	311.3	321.5	347.9	421.2	510.7	486.3	443.5	435.4	431.3
82.5°	413.0	268.6	240.1	244.2	254.3	335.7	439.5	409.0	352.0	315.4	315.4
85°	207.5	166.8	168.9	154.6	168.9	227.9	297.1	248.2	205.5	183.1	187.2
87.5°	83.4	83.4	83.4	71.2	75.3	107.8	138.4	93.6	85.5	50.9	50.9
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)