

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: P476500

Luminaire Tested: **IFLD-M-SA4B-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476500  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

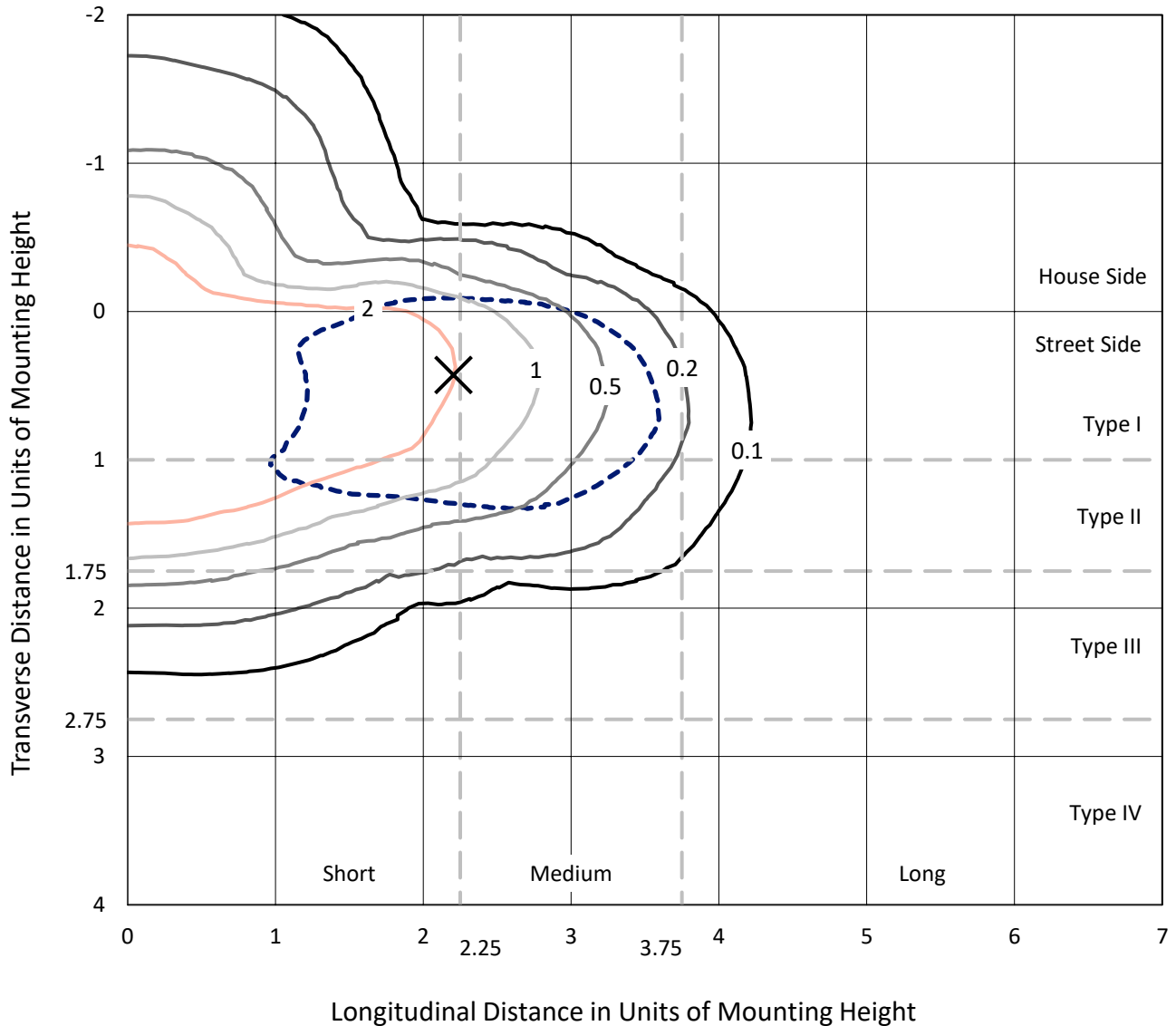
Lumens per Lamp: N/A  
Luminaire Lumens: 19077.6 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1  
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

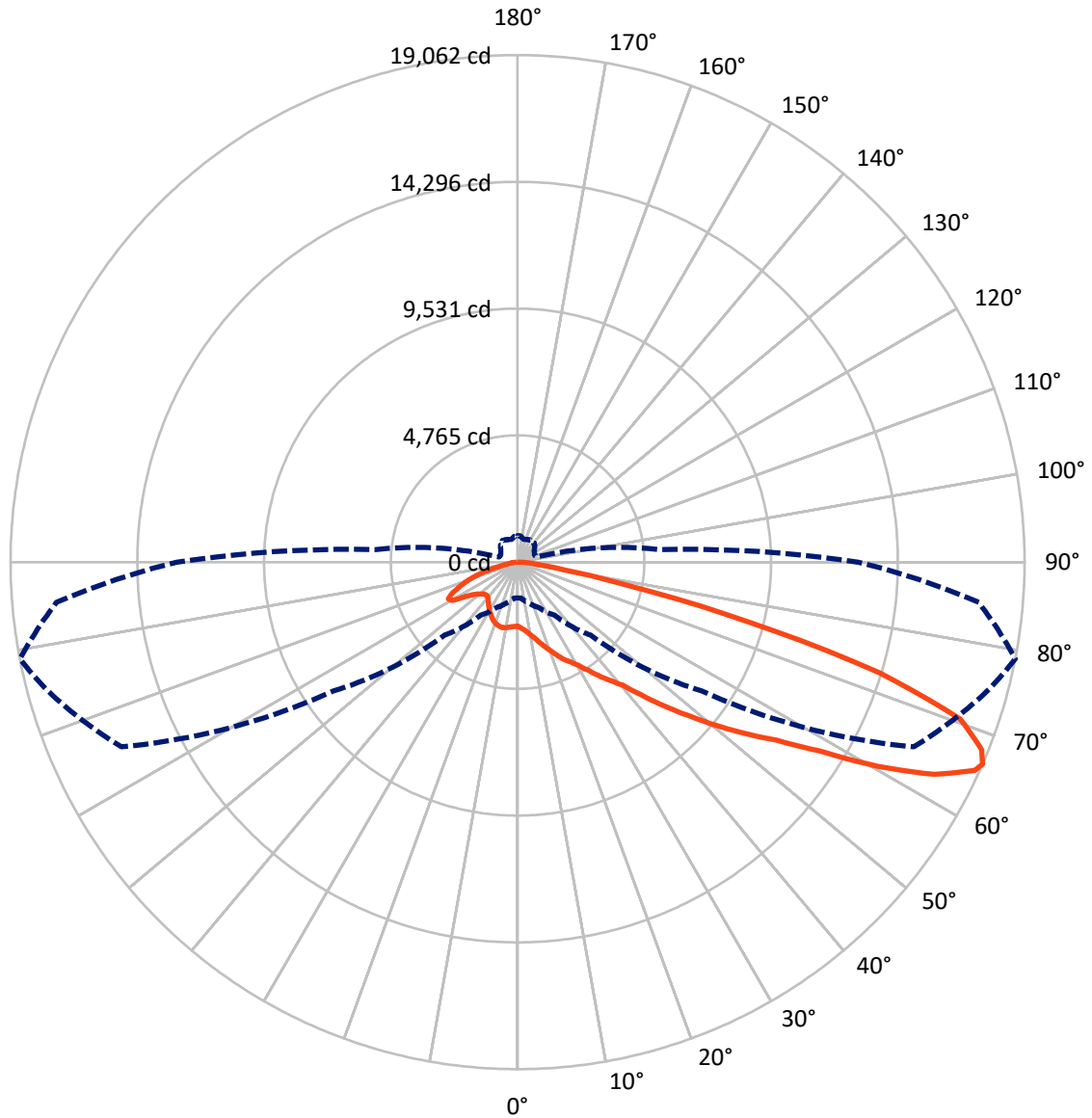
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	3852.4	0.0	3852.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	15225.1	0.0	15225.1
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	19077.6	0.0	19077.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.9	1.2
10°-20°	731.5	3.8
20°-30°	1255.6	6.6
30°-40°	1939.6	10.2
40°-50°	3106.7	16.3
50°-60°	4638.6	24.3
60°-70°	4766.1	25.0
70°-80°	2112.8	11.1
80°-90°	289.9	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°	19077.6	100.0
0°-180°	19077.6	100.0

**Coefficient of Utilization**

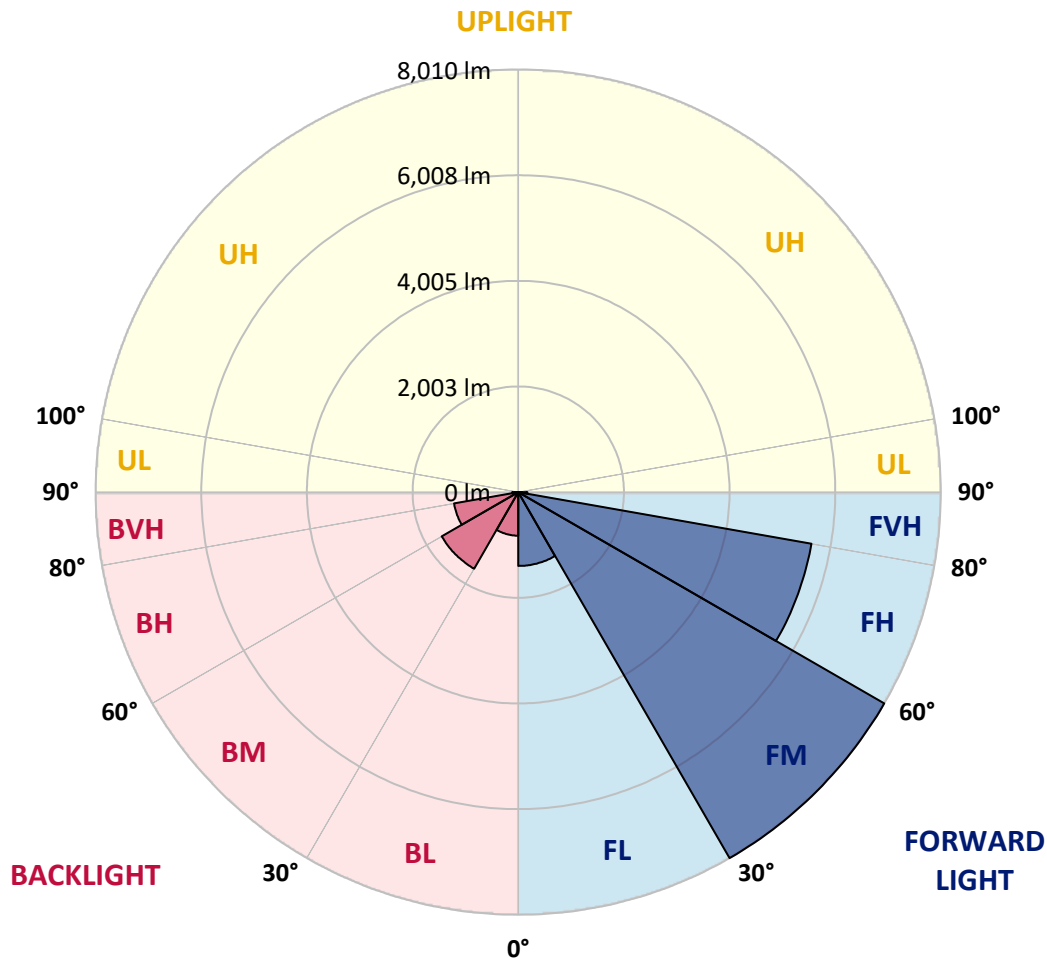


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1398.5	7.3			
FM (30°-60°)	8010.0	42.0			
FH (60°-80°)	5642.7	29.6			G3/7500
FVH (80°-90°)	173.9	0.9			G2/225
BL (0°-30°)	825.4	4.3	B2/1000		
BM (30°-60°)	1674.9	8.8	B2/2500		
BH (60°-80°)	1236.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	116.0	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°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2562.2	2564.3	2564.3	2555.9	2558.0	2564.3	2541.2	2490.8	2490.8	2482.4	2467.7
5°	2719.5	2709.0	2694.4	2696.5	2688.1	2688.1	2662.9	2614.6	2572.6	2555.9	2511.8
7.5°	2740.5	2751.0	2748.9	2774.1	2786.7	2786.7	2799.3	2759.4	2696.5	2656.6	2612.5
10°	2782.5	2755.2	2753.1	2811.9	2830.7	2874.8	2925.2	2904.2	2851.7	2795.1	2736.3
12.5°	2807.7	2824.5	2824.5	2853.8	2897.9	2962.9	3051.1	3091.0	3009.1	2950.4	2860.1
15°	2845.4	2822.4	2889.5	2914.7	2998.6	3044.8	3170.7	3273.5	3219.0	3147.6	3004.9
17.5°	2862.2	2847.5	2885.3	2931.5	3074.2	3143.4	3296.6	3439.3	3393.1	3347.0	3200.1
20°	2948.3	2946.2	2962.9	3000.7	3103.5	3239.9	3430.9	3628.1	3644.9	3561.0	3361.6
22.5°	3158.1	3130.8	3130.8	3116.1	3160.2	3300.8	3558.9	3831.7	3907.2	3808.6	3544.2
25°	3351.2	3388.9	3365.8	3298.7	3281.9	3355.3	3651.2	4047.8	4148.5	4056.2	3791.8
27.5°	3598.8	3611.4	3651.2	3561.0	3445.6	3468.7	3751.9	4169.5	4377.3	4253.5	3932.4
30°	3955.5	3932.4	3924.0	3823.3	3672.2	3640.7	3867.4	4347.9	4677.3	4503.2	4098.2
32.5°	4196.8	4253.5	4251.4	4112.9	3930.3	3861.1	4010.1	4515.8	4998.4	4836.8	4404.6
35°	4675.2	4734.0	4687.8	4484.3	4270.3	4131.8	4215.7	4734.0	5365.6	5239.7	4664.8
37.5°	5285.9	5424.4	5325.8	4950.1	4648.0	4496.9	4501.1	4971.1	5741.2	5638.4	4943.8
40°	5707.7	5894.4	5758.0	5405.5	5084.4	4941.7	4885.1	5252.3	6190.3	6081.2	5380.3
42.5°	6230.2	6385.4	6314.1	5965.8	5590.2	5468.4	5355.1	5722.3	6876.5	6826.1	5940.6
45°	6800.9	6874.4	6851.3	6631.0	6213.4	6171.4	5921.7	6341.4	7684.4	7705.3	6641.5
47.5°	7331.8	7371.7	7415.8	7256.3	6996.1	7031.8	6574.3	7004.5	8469.2	8607.7	7422.1
50°	7468.2	7604.6	7707.4	7814.5	7871.1	8112.4	7294.1	7818.7	9371.5	9640.1	8290.8
52.5°	7329.7	7319.2	7631.9	7967.6	8534.2	9039.9	8274.0	8830.1	10168.9	10699.8	9086.1
55°	6700.2	6679.2	7182.8	7627.7	8733.6	9556.1	9673.6	10177.3	11132.0	11822.4	10162.6
57.5°	5598.5	5468.4	6018.2	6748.5	8301.3	9612.8	11079.6	12177.0	12613.5	13400.4	11805.6
60°	3762.4	3707.9	4234.6	5105.4	6740.1	8809.1	11921.0	14680.4	14701.4	15586.9	14355.2
62.5°	2316.6	2327.1	2665.0	3317.6	4719.3	6983.5	11558.0	16680.2	16684.4	17572.0	16453.6
65°	1515.0	1521.3	1794.1	2155.1	2948.3	4736.1	9558.2	16837.6	18063.1	18887.7	17414.7
66°	1349.3	1351.4	1586.4	1880.2	2442.5	3875.8	8441.9	16428.4	18373.6	19061.9	17402.1
67.5°	1137.3	1164.6	1353.5	1580.1	1905.4	2784.6	6698.1	15244.9	18214.2	18818.5	17007.6
70°	889.7	904.4	1053.4	1284.2	1429.0	1611.6	3980.7	12426.8	16671.8	17651.8	15572.3
72.5°	713.5	726.0	839.4	1042.9	1160.4	1061.8	2167.7	9016.8	13169.6	14214.6	12248.4
75°	602.2	604.3	658.9	820.5	954.8	797.4	1154.1	5787.4	8450.3	8937.1	7503.9
77.5°	486.8	495.2	533.0	625.3	768.0	627.4	688.3	3242.0	4243.0	4278.6	3468.7
80°	396.6	400.8	423.9	455.4	585.5	463.7	465.8	1582.2	1819.3	1777.3	1410.1
82.5°	312.7	316.9	344.1	337.8	430.2	331.5	289.6	761.7	837.3	820.5	648.4
85°	176.3	176.3	270.7	270.7	272.8	209.8	176.3	358.8	442.8	413.4	304.3
87.5°	56.7	58.8	81.8	86.0	136.4	94.4	86.0	134.3	209.8	184.7	109.1
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°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2459.3	2425.8	2411.1	2362.8	2350.2	2318.7	2304.0	2285.2	2278.9	2251.6	2276.8
5°	2478.2	2467.7	2409.0	2348.1	2301.9	2281.0	2249.5	2207.5	2203.3	2165.6	2161.4
7.5°	2558.0	2522.3	2419.5	2354.4	2262.1	2209.6	2140.4	2119.4	2092.1	2079.5	2106.8
10°	2681.8	2591.5	2438.3	2274.7	2161.4	2098.4	2048.0	2033.4	2035.5	2027.1	2014.5
12.5°	2769.9	2683.9	2406.9	2207.5	2060.6	1999.8	1995.6	2010.3	2033.4	2022.9	2037.6
15°	2895.8	2734.2	2383.8	2096.3	1978.8	1962.0	1959.9	2004.0	2001.9	2001.9	1999.8
17.5°	3013.3	2784.6	2299.9	1999.8	1892.8	1905.4	1920.0	1917.9	1938.9	1947.3	1962.0
20°	3162.3	2843.3	2182.3	1903.3	1827.7	1823.5	1821.4	1823.5	1844.5	1857.1	1846.6
22.5°	3292.4	2855.9	2083.7	1810.9	1750.1	1733.3	1706.0	1733.3	1722.8	1727.0	1739.6
25°	3405.7	2858.0	1943.1	1741.7	1672.4	1634.7	1613.7	1611.6	1592.7	1590.6	1590.6
27.5°	3500.1	2786.7	1819.3	1645.1	1580.1	1544.4	1542.3	1519.2	1471.0	1439.5	1443.7
30°	3573.6	2732.1	1733.3	1561.2	1498.3	1492.0	1473.1	1420.6	1357.7	1317.8	1317.8
32.5°	3703.7	2623.0	1615.8	1475.2	1443.7	1435.3	1391.2	1345.1	1286.3	1248.6	1242.3
35°	3800.2	2522.3	1538.1	1401.7	1387.0	1370.3	1332.5	1282.1	1265.3	1256.9	1263.2
37.5°	3909.3	2409.0	1443.7	1338.8	1353.5	1322.0	1277.9	1254.8	1313.6	1298.9	1305.2
40°	4083.5	2329.2	1351.4	1301.0	1315.7	1280.0	1223.4	1215.0	1288.4	1236.0	1223.4
42.5°	4402.5	2327.1	1294.7	1244.4	1254.8	1227.6	1177.2	1173.0	1202.4	1139.4	1120.5
45°	4799.1	2400.6	1252.7	1202.4	1194.0	1189.8	1173.0	1154.1	1128.9	1047.1	1026.1
47.5°	5273.3	2520.2	1244.4	1139.4	1149.9	1185.6	1164.6	1116.4	1051.3	998.8	988.3
50°	5848.3	2767.8	1223.4	1093.3	1112.2	1168.8	1152.0	1084.9	1026.1	992.5	986.3
52.5°	6484.1	3080.5	1196.1	1021.9	1063.9	1154.1	1162.5	1099.6	1013.5	984.2	980.0
55°	7233.2	3542.1	1164.6	944.3	1007.2	1139.4	1162.5	1057.6	996.7	996.7	992.5
57.5°	8712.6	4373.1	1099.6	872.9	956.9	1112.2	1128.9	1059.7	998.8	998.8	990.4
60°	10882.3	5669.9	975.8	818.4	908.6	1074.4	1103.8	1028.2	975.8	988.3	986.3
62.5°	12579.9	6064.4	870.8	765.9	860.3	1005.1	1070.2	994.6	948.5	994.6	998.8
65°	12943.0	5665.7	763.8	709.3	793.2	938.0	1021.9	946.4	908.6	998.8	1003.0
66°	12812.9	5355.1	726.0	692.5	763.8	904.4	992.5	929.6	887.6	994.6	996.7
67.5°	12233.7	4889.3	684.1	656.8	723.9	856.1	959.0	906.5	854.1	982.1	963.2
70°	10974.7	4146.4	612.7	593.8	667.3	776.4	881.3	847.8	801.6	904.4	870.8
72.5°	8452.4	3313.4	537.2	539.3	602.2	694.6	803.7	780.6	740.7	793.2	772.2
75°	5147.4	2117.3	467.9	472.1	524.6	616.9	730.2	713.5	665.2	694.6	684.1
77.5°	2281.0	1049.2	394.5	402.9	444.9	543.5	635.8	608.5	558.2	564.5	560.3
80°	885.5	497.3	321.1	331.5	358.8	434.4	526.7	501.5	457.5	449.1	444.9
82.5°	426.0	277.0	247.6	251.8	262.3	346.2	453.3	421.8	363.0	325.3	325.3
85°	214.0	172.1	174.2	159.5	174.2	235.0	306.4	256.0	211.9	188.9	193.1
87.5°	86.0	86.0	86.0	73.4	77.6	111.2	142.7	96.5	88.1	52.5	52.5
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)