

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: P476969

Luminaire Tested: **IFLD-M-SA4C-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476969  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

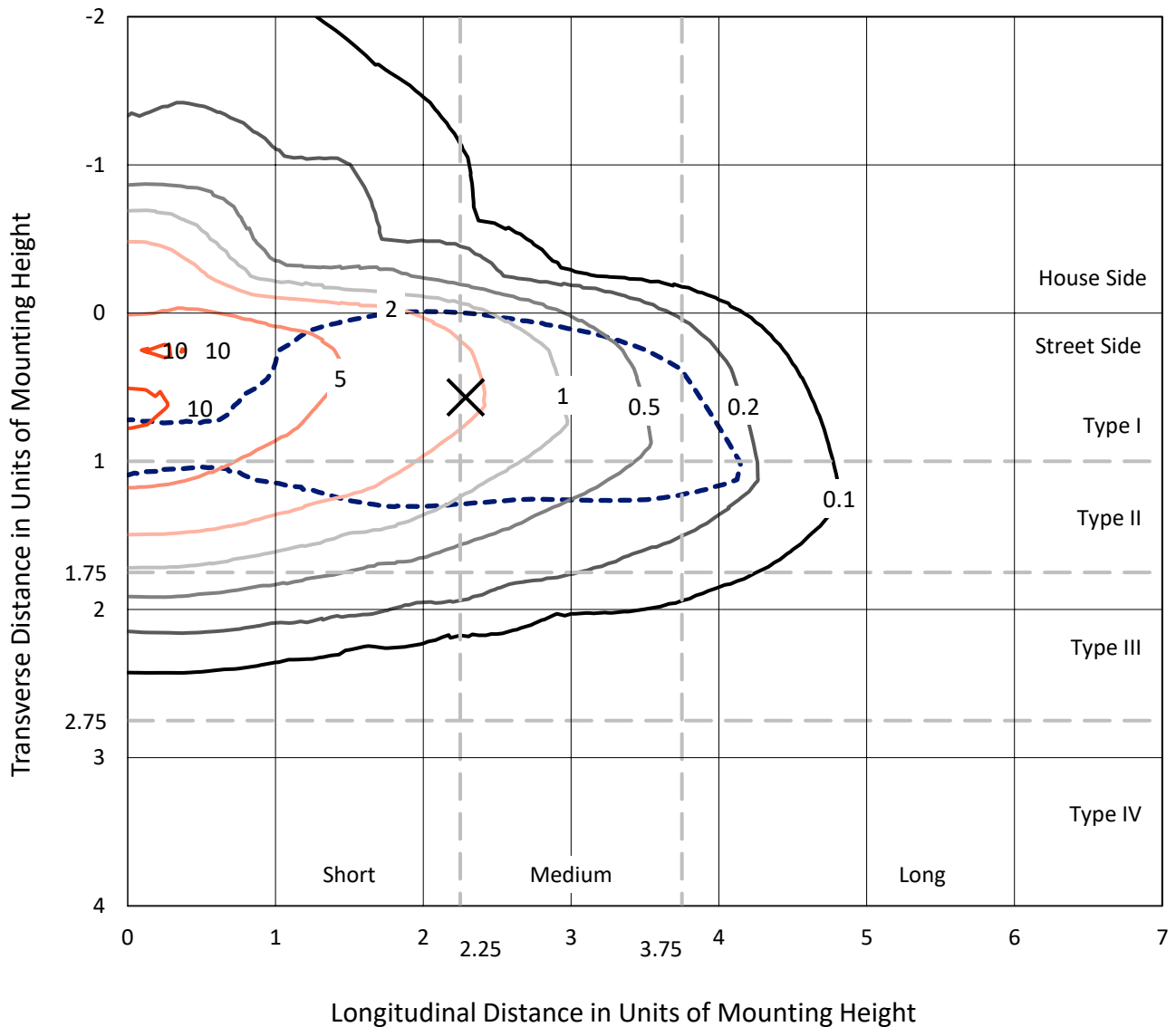
Lumens per Lamp: N/A  
Luminaire Lumens: 28199.8 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1  
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

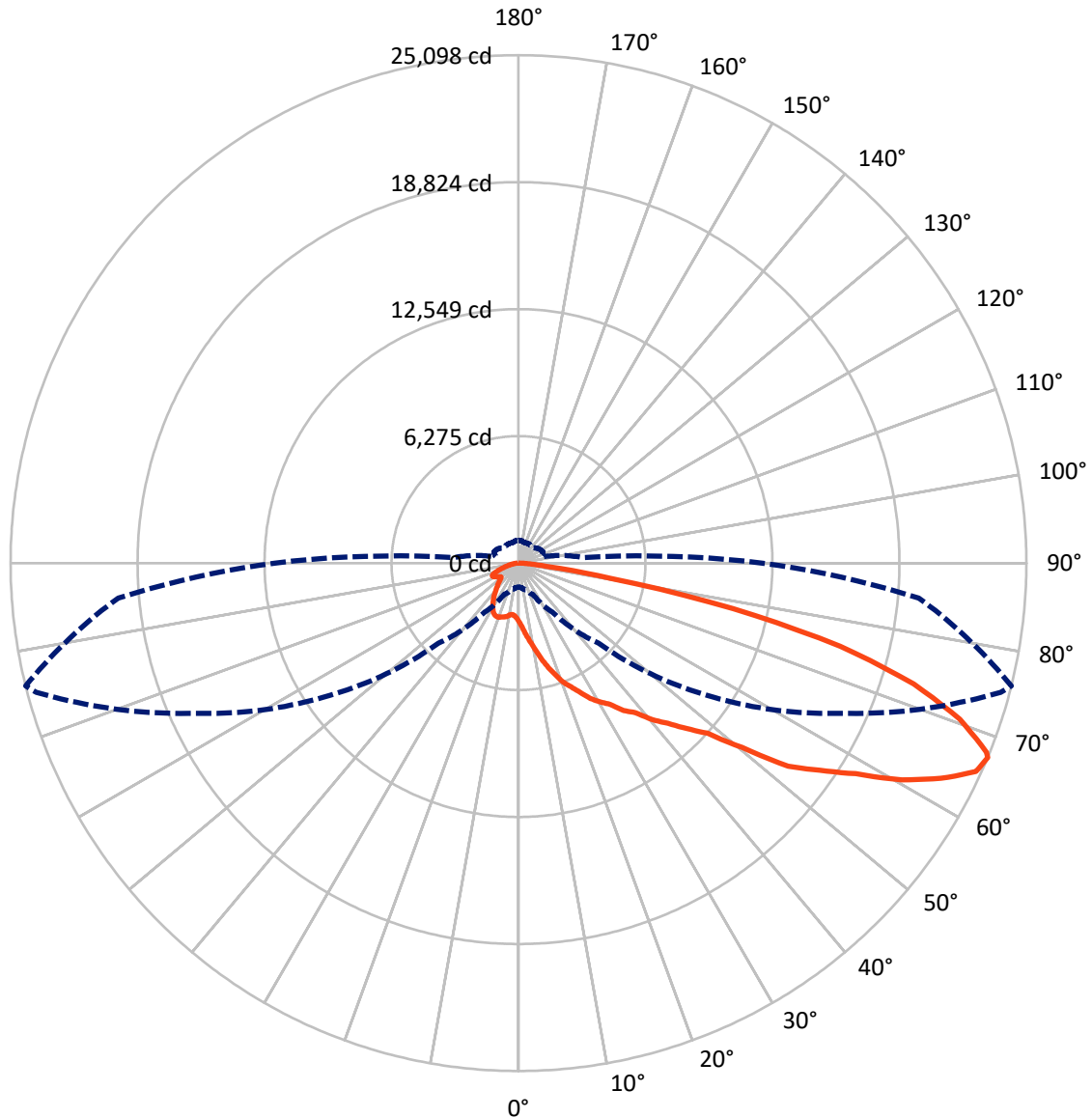
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	4011.8	0.0	4011.8
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	24188.0	0.0	24188.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	28199.8	0.0	28199.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.3	1.2
10°-20°	1253.7	4.4
20°-30°	2330.8	8.3
30°-40°	3694.9	13.1
40°-50°	5110.4	18.1
50°-60°	6286.1	22.3
60°-70°	5849.5	20.7
70°-80°	2935.3	10.4
80°-90°	404.7	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°	28199.8	100.0
0°-180°	28199.8	100.0

**Coefficient of Utilization**

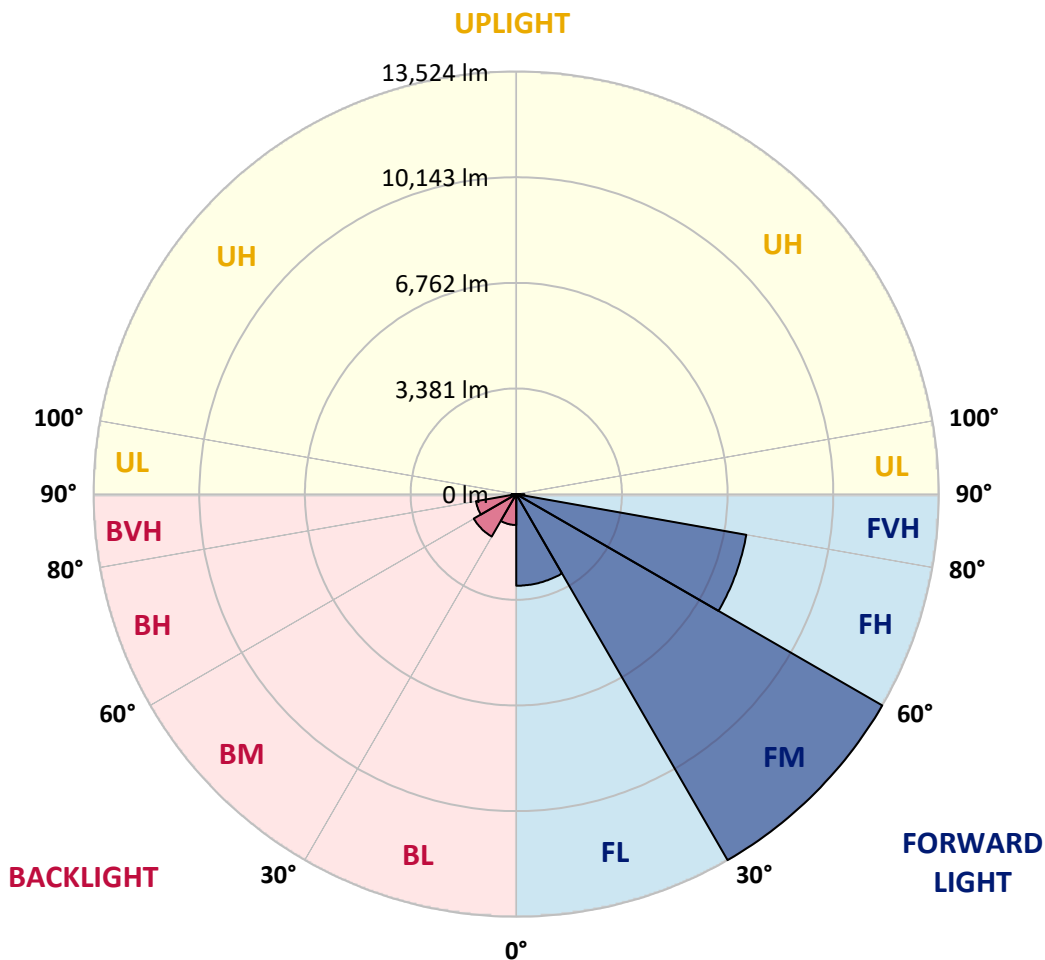


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2930.9	10.4			
FM (30°-60°)	13523.7	48.0			
FH (60°-80°)	7475.5	26.5			G3/7500
FVH (80°-90°)	257.9	0.9			G3/500
BL (0°-30°)	987.9	3.5	B2/1000		
BM (30°-60°)	1567.7	5.6	B2/2500		
BH (60°-80°)	1309.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	146.9	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-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8
2.5°	4004.1	3955.9	3907.7	3804.9	3769.6	3673.1	3496.4	3300.4	3139.7	3117.2	3004.7
5°	4968.2	4897.5	4881.5	4823.6	4640.4	4454.1	4164.8	3849.9	3457.8	3486.8	3101.1
7.5°	5691.3	5649.5	5562.7	5508.1	5398.9	5151.4	4852.5	4434.8	3936.7	3840.3	3316.4
10°	6237.6	6179.8	6176.5	6128.3	6070.5	5816.6	5588.5	5026.1	4386.6	4254.8	3580.0
12.5°	6514.0	6504.3	6674.7	6674.7	6652.2	6546.1	6154.0	5639.9	4814.0	4769.0	3885.2
15°	6812.8	6732.5	6880.3	6992.8	7050.6	7105.3	6780.7	6237.6	5360.3	5273.5	4213.0
17.5°	6812.8	6806.4	6954.2	7140.6	7442.7	7513.4	7336.7	6787.1	5813.4	5749.1	4573.0
20°	6697.1	6790.3	6893.2	7143.8	7471.6	7757.6	7809.1	7349.5	6314.7	6263.3	4981.1
22.5°	7237.0	7147.1	7253.1	7349.5	7603.4	8037.2	8178.6	7844.4	6841.8	6645.7	5350.6
25°	8143.3	8082.2	8005.1	7863.7	7969.7	8159.3	8374.6	8210.8	7291.7	7073.1	5707.4
27.5°	9027.0	9030.2	8863.1	8554.6	8326.4	8365.0	8618.9	8532.1	7670.9	7574.5	5951.6
30°	10283.5	10206.4	10020.0	9602.2	9155.6	8789.2	8747.4	8831.0	8152.9	7966.5	6301.9
32.5°	11225.1	11241.2	10977.7	10376.7	9766.1	9467.3	9100.9	9136.3	8458.2	8320.0	6581.5
35°	11986.7	11967.5	11781.1	11283.0	10559.9	10200.0	9705.1	9502.6	9168.4	8949.9	7008.9
37.5°	12809.4	12652.0	12349.9	11787.5	11324.7	10826.6	10344.6	9888.3	9640.8	9377.3	7375.2
40°	13140.4	13140.4	12735.5	12478.4	11928.9	11552.9	11241.2	10396.0	10216.0	10164.6	7844.4
42.5°	12905.8	13050.4	12883.3	12590.9	12365.9	11890.3	11806.8	10923.0	10926.2	10823.4	8406.8
45°	12883.3	12684.1	12545.9	12619.8	12513.8	12488.1	12700.2	11652.5	11671.8	11659.0	9162.0
47.5°	12237.4	12147.4	12353.1	12475.2	12562.0	12960.5	13571.0	12523.4	12661.6	12565.2	10032.9
50°	11594.7	11578.6	11707.2	12150.6	12526.6	13182.2	14400.2	13866.7	14319.8	14313.4	11610.7
52.5°	9833.6	10003.9	10508.5	11446.9	12375.6	13484.3	15026.8	15582.8	16447.2	16681.8	12918.7
55°	8149.7	8059.7	8805.3	10167.8	11716.8	13603.2	15727.4	16614.3	17886.9	18057.2	14262.0
57.5°	6340.4	6507.5	7095.6	8403.6	10354.2	13015.1	16241.5	17633.0	19513.0	19644.8	15820.6
60°	4730.4	4752.9	5398.9	6452.9	8541.8	11687.9	16408.7	18677.5	21376.9	21752.9	17453.1
62.5°	2975.8	3110.8	3602.4	4640.4	6430.4	9830.4	15659.9	19310.5	23330.8	23430.4	19098.4
65°	1603.6	1690.4	2059.9	2712.3	4492.6	7436.3	13673.9	18931.3	24249.8	24841.2	19831.1
67°	1185.8	1201.9	1372.2	1732.1	3004.7	5598.1	11401.9	17559.1	24667.6	25098.2	19860.1
67.5°	1111.9	1134.4	1269.4	1555.4	2664.1	5154.6	10807.3	17070.7	24481.2	24944.0	19635.1
70°	951.2	957.7	989.8	1070.1	1494.3	3101.1	7359.2	13988.8	22691.3	23134.7	18057.2
72.5°	845.2	851.6	864.5	880.5	1012.3	1793.2	4476.5	10765.6	19721.9	20428.9	15579.5
75°	742.3	764.8	771.3	758.4	861.2	1166.5	2381.3	7911.9	16087.3	16431.2	12115.3
77.5°	629.9	639.5	652.4	665.2	768.1	870.9	1144.0	5341.0	11041.9	10833.1	6552.5
80°	530.2	533.5	543.1	552.7	665.2	665.2	649.1	2885.8	4823.6	4611.5	2214.2
82.5°	379.2	401.7	424.2	449.9	552.7	446.7	424.2	1285.4	1526.5	1452.5	748.8
85°	147.8	180.0	279.6	308.5	350.3	241.0	282.8	556.0	636.3	629.9	279.6
87.5°	25.7	28.9	77.1	118.9	128.5	83.6	135.0	199.2	237.8	257.1	102.8
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°	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8	2885.8
2.5°	2911.5	2811.9	2693.0	2574.1	2497.0	2374.9	2365.2	2291.3	2281.7	2255.9	2268.8
5°	2934.0	2815.1	2574.1	2384.5	2297.7	2227.0	2243.1	2211.0	2201.3	2185.2	2159.5
7.5°	3110.8	2876.2	2516.3	2352.4	2288.1	2255.9	2255.9	2217.4	2188.5	2207.7	2227.0
10°	3226.5	2905.1	2561.2	2397.3	2345.9	2275.2	2300.9	2252.7	2268.8	2230.2	2230.2
12.5°	3412.8	3069.0	2654.4	2464.8	2381.3	2317.0	2342.7	2288.1	2275.2	2278.4	2268.8
15°	3663.5	3178.3	2696.2	2503.4	2445.6	2365.2	2345.9	2297.7	2249.5	2233.5	2252.7
17.5°	3898.1	3313.2	2725.1	2525.9	2432.7	2342.7	2320.2	2259.2	2243.1	2194.9	2156.3
20°	4177.7	3473.9	2763.7	2545.2	2384.5	2294.5	2236.7	2175.6	2121.0	2092.1	2104.9
22.5°	4364.1	3557.5	2783.0	2506.6	2313.8	2230.2	2108.1	2066.3	1989.2	1957.1	1931.4
25°	4669.4	3660.3	2734.8	2400.6	2188.5	2053.5	1944.2	1886.4	1831.8	1790.0	1777.1
27.5°	4746.5	3737.4	2622.3	2220.6	1989.2	1847.8	1754.6	1683.9	1648.6	1584.3	1571.5
30°	4971.4	3660.3	2455.2	2002.1	1799.6	1655.0	1561.8	1510.4	1426.8	1410.8	1375.4
32.5°	5116.1	3682.8	2243.1	1790.0	1581.1	1452.5	1391.5	1340.1	1317.6	1240.5	1221.2
35°	5357.1	3605.7	2027.8	1593.9	1401.1	1301.5	1250.1	1234.0	1160.1	1124.8	1092.6
37.5°	5511.3	3560.7	1812.5	1372.2	1205.1	1163.3	1179.4	1111.9	1021.9	954.4	931.9
40°	5781.3	3544.6	1568.2	1189.0	1070.1	1060.5	1111.9	983.4	819.5	761.6	729.5
42.5°	6170.1	3435.3	1378.6	1025.1	964.1	1005.9	1015.5	819.5	726.3	678.1	655.6
45°	6542.9	3457.8	1192.2	848.4	838.8	899.8	877.3	694.1	639.5	604.2	623.4
47.5°	7259.5	3570.3	1009.1	707.0	755.2	813.0	681.3	620.2	568.8	543.1	546.3
50°	8368.2	3679.6	848.4	645.9	713.4	735.9	584.9	562.4	559.2	507.7	504.5
52.5°	9033.4	3637.8	819.5	723.1	764.8	735.9	636.3	620.2	594.5	572.0	546.3
55°	10090.7	3759.9	880.5	845.2	867.7	707.0	713.4	707.0	687.7	629.9	645.9
57.5°	10932.7	3840.3	960.9	944.8	931.9	735.9	745.6	748.8	735.9	710.2	732.7
60°	12089.6	4000.9	1044.4	1047.6	1050.8	800.2	816.3	835.5	832.3	822.7	829.1
62.5°	12799.8	3927.0	1137.6	1189.0	1173.0	931.9	928.7	941.6	941.6	957.7	967.3
65°	12693.7	3653.9	1185.8	1314.4	1230.8	1028.4	1028.4	1034.8	1038.0	1070.1	1073.3
67°	12057.4	3165.4	1160.1	1333.6	1230.8	1066.9	1066.9	1073.3	1050.8	1134.4	1108.7
67.5°	11761.8	3020.8	1137.6	1317.6	1221.2	1063.7	1063.7	1066.9	1047.6	1128.0	1102.3
70°	10228.9	2243.1	980.1	1166.5	1131.2	1034.8	1034.8	1015.5	999.4	1105.5	1083.0
72.5°	8731.4	1629.3	787.3	993.0	1021.9	996.2	1002.6	954.4	909.4	983.4	964.1
75°	6687.5	1198.7	613.8	764.8	864.5	931.9	973.7	851.6	793.8	813.0	777.7
77.5°	3731.0	780.9	485.3	565.6	658.8	867.7	935.2	768.1	649.1	626.7	626.7
80°	1266.2	456.3	356.7	421.0	453.1	768.1	874.1	623.4	511.0	488.5	472.4
82.5°	478.8	279.6	244.2	289.2	289.2	607.4	713.4	478.8	385.6	498.1	507.7
85°	218.5	167.1	160.7	167.1	167.1	372.8	504.5	311.7	347.1	298.9	263.5
87.5°	86.8	80.3	73.9	70.7	57.8	64.3	173.5	83.6	157.5	41.8	38.6
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)