

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: P476501

Luminaire Tested: **IFLD-M-SA4C-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476501  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-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**

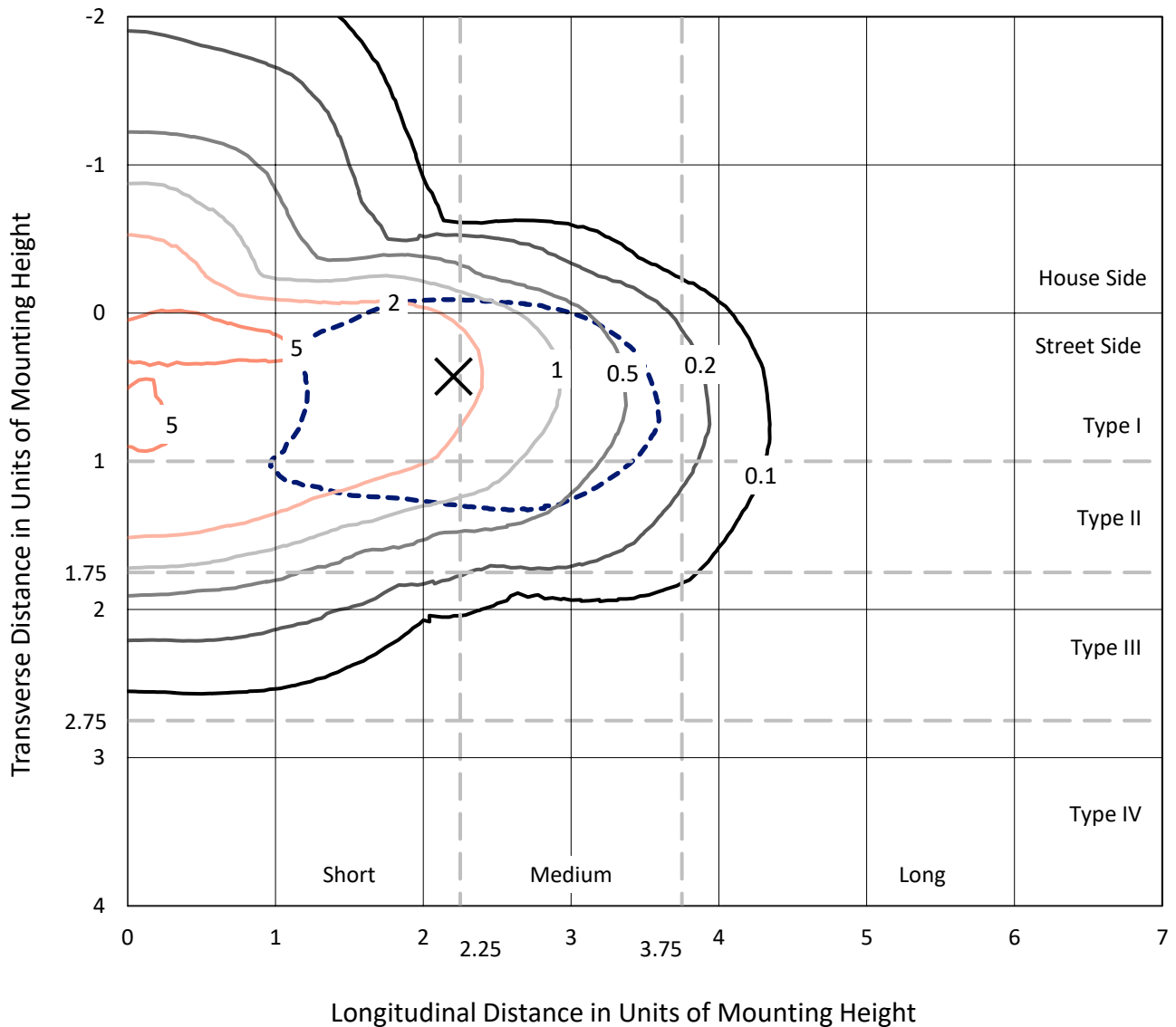
Lumens per Lamp: N/A  
Luminaire Lumens: 23748.7 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

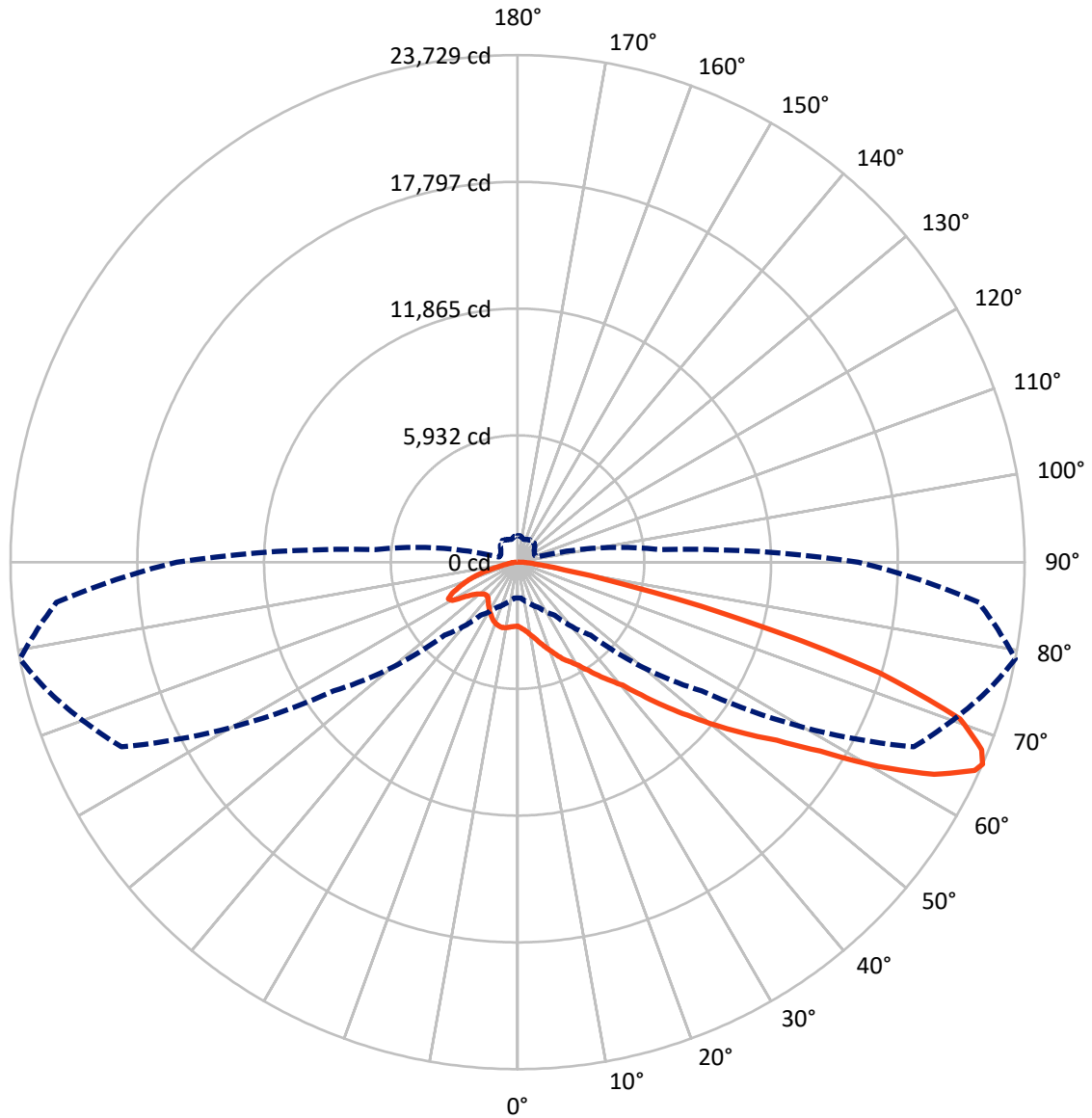
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	4795.7	0.0	4795.7
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	18953.0	0.0	18953.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	23748.7	0.0	23748.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.9	1.2
10°-20°	910.5	3.8
20°-30°	1563.0	6.6
30°-40°	2414.5	10.2
40°-50°	3867.4	16.3
50°-60°	5774.3	24.3
60°-70°	5933.1	25.0
70°-80°	2630.1	11.1
80°-90°	360.9	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°	23748.7	100.0
0°-180°	23748.7	100.0

**Coefficient of Utilization**



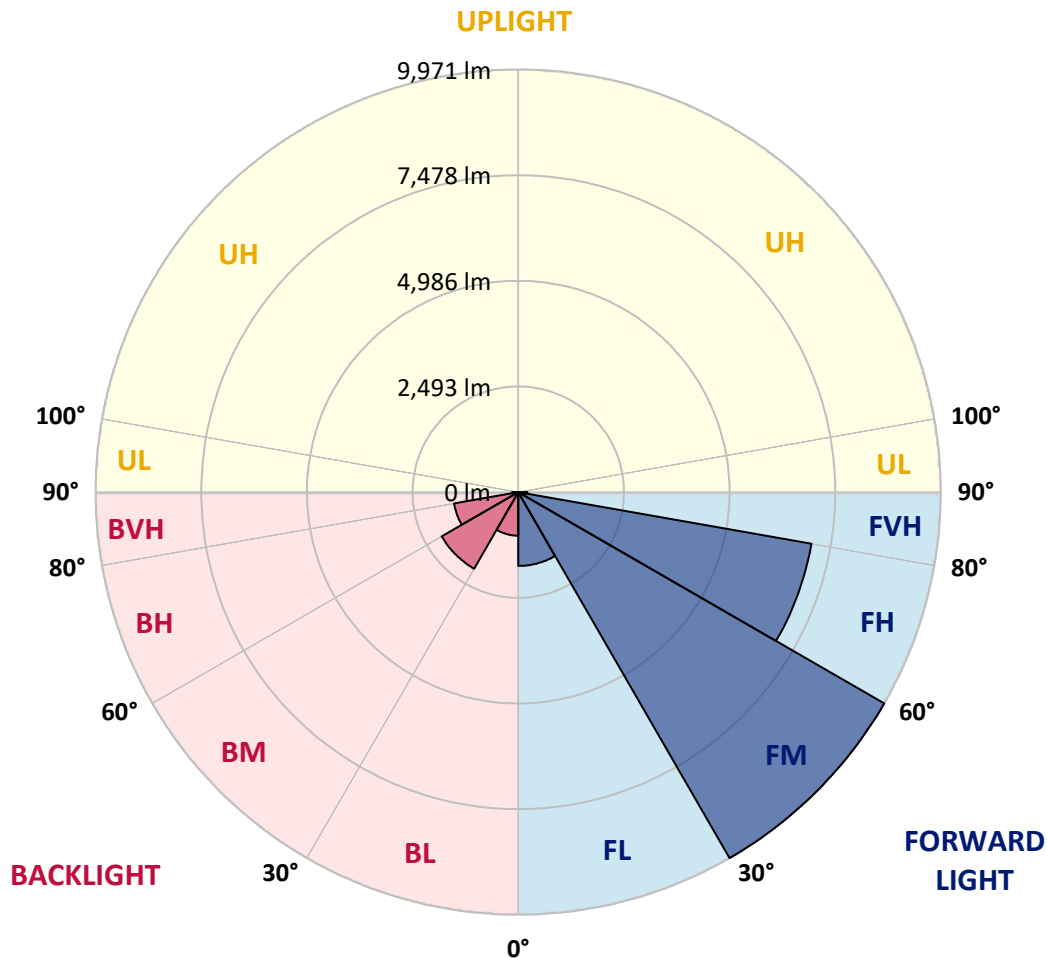
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1740.9	7.3			
FM (30°-60°)	9971.3	42.0			
FH (60°-80°)	7024.3	29.6			G3/7500
FVH (80°-90°)	216.4	0.9			G2/225
BL (0°-30°)	1027.5	4.3	B3/2500		
BM (30°-60°)	2085.0	8.8	B2/2500		
BH (60°-80°)	1538.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	144.4	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°	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8
2.5°	3189.5	3192.1	3192.1	3181.7	3184.3	3192.1	3163.4	3100.7	3100.7	3090.2	3071.9
5°	3385.4	3372.3	3354.1	3356.7	3346.2	3346.2	3314.9	3254.8	3202.6	3181.7	3126.8
7.5°	3411.5	3424.6	3422.0	3453.3	3469.0	3469.0	3484.7	3435.0	3356.7	3307.0	3252.2
10°	3463.8	3429.8	3427.2	3500.3	3523.9	3578.7	3641.4	3615.3	3550.0	3479.4	3406.3
12.5°	3495.1	3516.0	3516.0	3552.6	3607.4	3688.4	3798.1	3847.8	3745.9	3672.8	3560.4
15°	3542.1	3513.4	3597.0	3628.3	3732.8	3790.3	3947.0	4075.0	4007.1	3918.3	3740.7
17.5°	3563.0	3544.8	3591.8	3649.2	3826.9	3913.1	4103.8	4281.4	4223.9	4166.5	3983.6
20°	3670.1	3667.5	3688.4	3735.4	3863.4	4033.2	4270.9	4516.5	4537.4	4432.9	4184.7
22.5°	3931.4	3897.4	3897.4	3879.1	3934.0	4109.0	4430.3	4769.9	4863.9	4741.1	4412.0
25°	4171.7	4218.7	4190.0	4106.4	4085.5	4176.9	4545.2	5038.9	5164.3	5049.4	4720.2
27.5°	4479.9	4495.6	4545.2	4432.9	4289.2	4318.0	4670.6	5190.4	5449.0	5294.9	4895.3
30°	4924.0	4895.3	4884.8	4759.4	4571.3	4532.2	4814.3	5412.5	5822.6	5605.8	5101.6
32.5°	5224.4	5294.9	5292.3	5119.9	4892.6	4806.4	4991.9	5621.5	6222.3	6021.1	5483.0
35°	5820.0	5893.1	5835.7	5582.3	5315.8	5143.4	5247.9	5893.1	6679.4	6522.7	5806.9
37.5°	6580.1	6752.5	6629.8	6162.2	5786.0	5597.9	5603.2	6188.3	7147.0	7019.0	6154.3
40°	7105.2	7337.7	7167.9	6729.0	6329.4	6151.7	6081.2	6538.3	7706.0	7570.2	6697.7
42.5°	7755.6	7948.9	7860.1	7426.5	6958.9	6807.4	6666.3	7123.5	8560.2	8497.5	7395.1
45°	8466.1	8557.6	8528.8	8254.5	7734.7	7682.5	7371.6	7894.1	9565.9	9592.0	8267.6
47.5°	9127.0	9176.7	9231.5	9033.0	8709.1	8753.5	8184.0	8719.5	10542.8	10715.2	9239.3
50°	9296.8	9466.6	9594.6	9727.8	9798.4	10098.8	9080.0	9733.1	11666.1	12000.4	10320.8
52.5°	9124.4	9111.4	9500.6	9918.5	10623.8	11253.4	10299.9	10992.1	12658.7	13319.6	11310.8
55°	8340.8	8314.6	8941.6	9495.3	10872.0	11896.0	12042.2	12669.2	13857.7	14717.1	12650.9
57.5°	6969.3	6807.4	7491.8	8400.8	10333.9	11966.5	13792.4	15158.6	15701.9	16681.5	14696.2
60°	4683.7	4615.8	5271.4	6355.5	8390.4	10966.0	14839.9	18274.9	18301.1	19403.4	17870.1
62.5°	2883.9	2896.9	3317.5	4129.9	5874.8	8693.4	14388.0	20764.4	20769.6	21874.6	20482.3
65°	1886.0	1893.8	2233.4	2682.7	3670.1	5895.7	11898.6	20960.3	22485.8	23512.4	21678.6
66°	1679.6	1682.3	1974.8	2340.5	3040.6	4824.7	10508.9	20450.9	22872.4	23729.2	21663.0
67.5°	1415.8	1449.8	1684.9	1967.0	2371.9	3466.4	8338.1	18977.6	22673.9	23426.2	21171.9
70°	1107.6	1125.9	1311.3	1598.7	1778.9	2006.2	4955.3	15469.4	20753.9	21973.8	19385.1
72.5°	888.1	903.8	1044.9	1298.3	1444.5	1321.8	2698.4	11224.6	16394.2	17695.0	15247.4
75°	749.7	752.3	820.2	1021.4	1188.6	992.6	1436.7	7204.4	10519.3	11125.4	9341.2
77.5°	606.0	616.5	663.5	778.4	956.1	781.0	856.8	4035.8	5281.9	5326.3	4318.0
80°	493.7	498.9	527.7	566.8	728.8	577.3	579.9	1969.6	2264.8	2212.5	1755.4
82.5°	389.2	394.4	428.4	420.6	535.5	412.7	360.5	948.2	1042.3	1021.4	807.2
85°	219.4	219.4	337.0	337.0	339.6	261.2	219.4	446.7	551.2	514.6	378.8
87.5°	70.5	73.1	101.9	107.1	169.8	117.5	107.1	167.2	261.2	229.9	135.8
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°	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8	2998.8
2.5°	3061.5	3019.7	3001.4	2941.3	2925.7	2886.5	2868.2	2844.7	2836.8	2802.9	2834.2
5°	3085.0	3071.9	2998.8	2923.1	2865.6	2839.5	2800.3	2748.0	2742.8	2695.8	2690.6
7.5°	3184.3	3139.9	3011.9	2930.9	2816.0	2750.6	2664.4	2638.3	2604.4	2588.7	2622.6
10°	3338.4	3226.1	3035.4	2831.6	2690.6	2612.2	2549.5	2531.2	2533.8	2523.4	2507.7
12.5°	3448.1	3341.0	2996.2	2748.0	2565.2	2489.4	2484.2	2502.5	2531.2	2518.2	2536.4
15°	3604.8	3403.7	2967.5	2609.6	2463.3	2442.4	2439.8	2494.7	2492.0	2492.0	2489.4
17.5°	3751.1	3466.4	2863.0	2489.4	2356.2	2371.9	2390.2	2387.5	2413.7	2424.1	2442.4
20°	3936.6	3539.5	2716.7	2369.3	2275.2	2270.0	2267.4	2270.0	2296.1	2311.8	2298.7
22.5°	4098.5	3555.2	2593.9	2254.3	2178.6	2157.7	2123.7	2157.7	2144.6	2149.8	2165.5
25°	4239.6	3557.8	2418.9	2168.1	2081.9	2034.9	2008.8	2006.2	1982.7	1980.0	1980.0
27.5°	4357.1	3469.0	2264.8	2048.0	1967.0	1922.6	1920.0	1891.2	1831.2	1792.0	1797.2
30°	4448.6	3401.1	2157.7	1943.5	1865.1	1857.3	1833.8	1768.5	1690.1	1640.5	1640.5
32.5°	4610.5	3265.2	2011.4	1836.4	1797.2	1786.7	1731.9	1674.4	1601.3	1554.3	1546.4
35°	4730.7	3139.9	1914.7	1744.9	1726.7	1705.8	1658.7	1596.1	1575.2	1564.7	1572.5
37.5°	4866.5	2998.8	1797.2	1666.6	1684.9	1645.7	1590.8	1562.1	1635.2	1617.0	1624.8
40°	5083.3	2899.5	1682.3	1619.6	1637.8	1593.4	1522.9	1512.5	1603.9	1538.6	1522.9
42.5°	5480.4	2896.9	1611.7	1549.0	1562.1	1528.1	1465.4	1460.2	1496.8	1418.4	1394.9
45°	5974.1	2988.4	1559.5	1496.8	1486.3	1481.1	1460.2	1436.7	1405.4	1303.5	1277.4
47.5°	6564.5	3137.3	1549.0	1418.4	1431.5	1475.9	1449.8	1389.7	1308.7	1243.4	1230.3
50°	7280.2	3445.5	1522.9	1361.0	1384.5	1455.0	1434.1	1350.5	1277.4	1235.6	1227.7
52.5°	8071.7	3834.7	1489.0	1272.1	1324.4	1436.7	1447.2	1368.8	1261.7	1225.1	1219.9
55°	9004.3	4409.4	1449.8	1175.5	1253.9	1418.4	1447.2	1316.5	1240.8	1240.8	1235.6
57.5°	10845.9	5443.8	1368.8	1086.7	1191.2	1384.5	1405.4	1319.2	1243.4	1243.4	1233.0
60°	13546.9	7058.2	1214.7	1018.8	1131.1	1337.4	1374.0	1280.0	1214.7	1230.3	1227.7
62.5°	15660.1	7549.3	1084.1	953.5	1071.0	1251.2	1332.2	1238.2	1180.7	1238.2	1243.4
65°	16112.0	7052.9	950.8	882.9	987.4	1167.7	1272.1	1178.1	1131.1	1243.4	1248.6
66°	15950.1	6666.3	903.8	862.0	950.8	1125.9	1235.6	1157.2	1105.0	1238.2	1240.8
67.5°	15229.1	6086.4	851.6	817.6	901.2	1065.8	1193.8	1128.5	1063.2	1222.5	1199.0
70°	13661.8	5161.7	762.8	739.3	830.7	966.5	1097.1	1055.3	997.9	1125.9	1084.1
72.5°	10521.9	4124.7	668.7	671.3	749.7	864.6	1000.5	971.7	922.1	987.4	961.3
75°	6407.7	2635.7	582.5	587.7	653.0	768.0	909.0	888.1	828.1	864.6	851.6
77.5°	2839.5	1306.1	491.1	501.5	553.8	676.6	791.5	757.5	694.8	702.7	697.5
80°	1102.3	619.1	399.7	412.7	446.7	540.7	655.7	624.3	569.5	559.0	553.8
82.5°	530.3	344.8	308.2	313.5	326.5	431.0	564.2	525.1	451.9	404.9	404.9
85°	266.4	214.2	216.8	198.5	216.8	292.6	381.4	318.7	263.8	235.1	240.3
87.5°	107.1	107.1	107.1	91.4	96.7	138.4	177.6	120.2	109.7	65.3	65.3
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)