

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: P476665

Luminaire Tested: **IFLD-L-SA8A-750-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476665  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-750-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

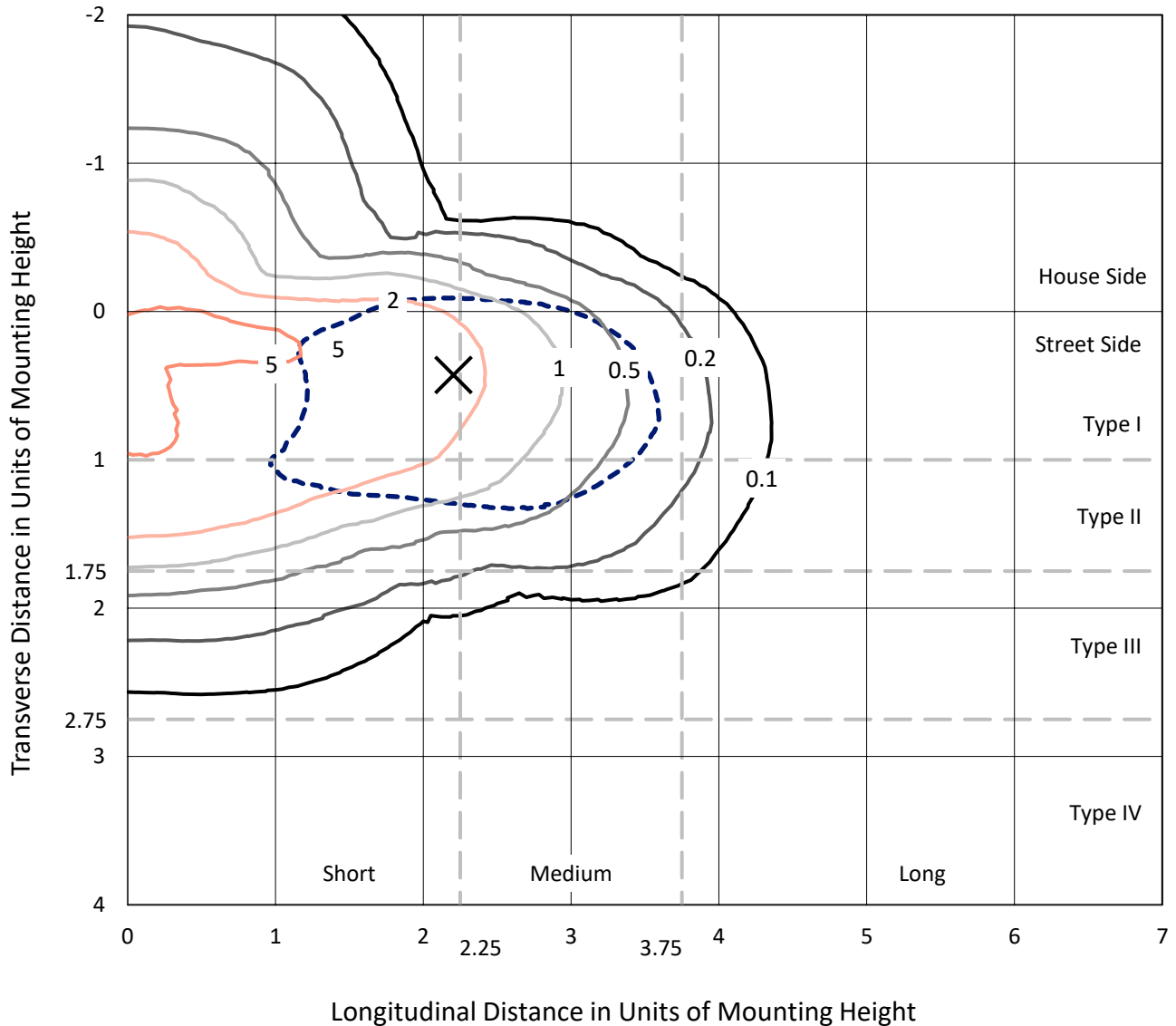
Lumens per Lamp: N/A  
Luminaire Lumens: 34998.4 lumens  
Efficiency: N/A  
Efficacy: 141.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

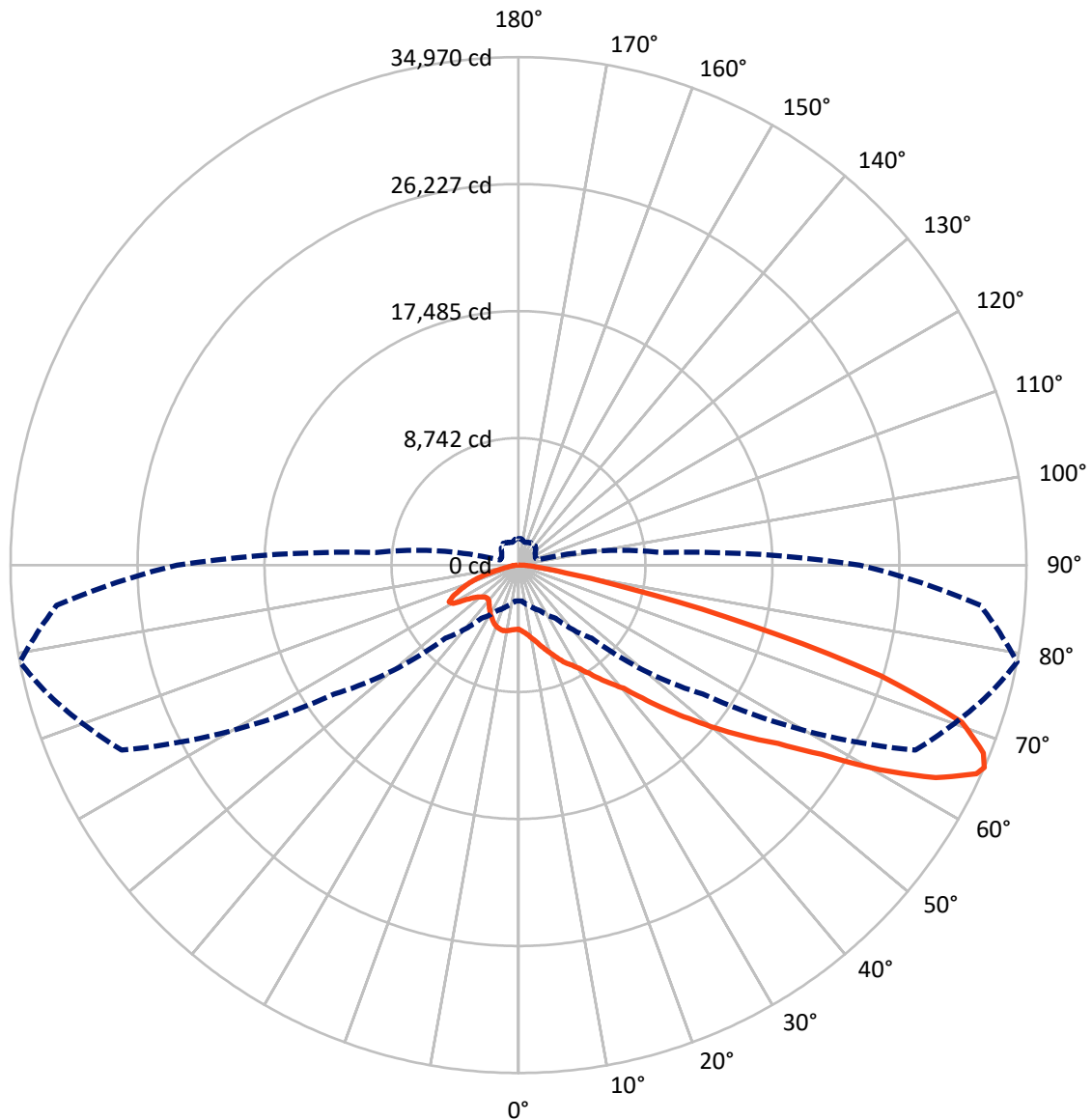
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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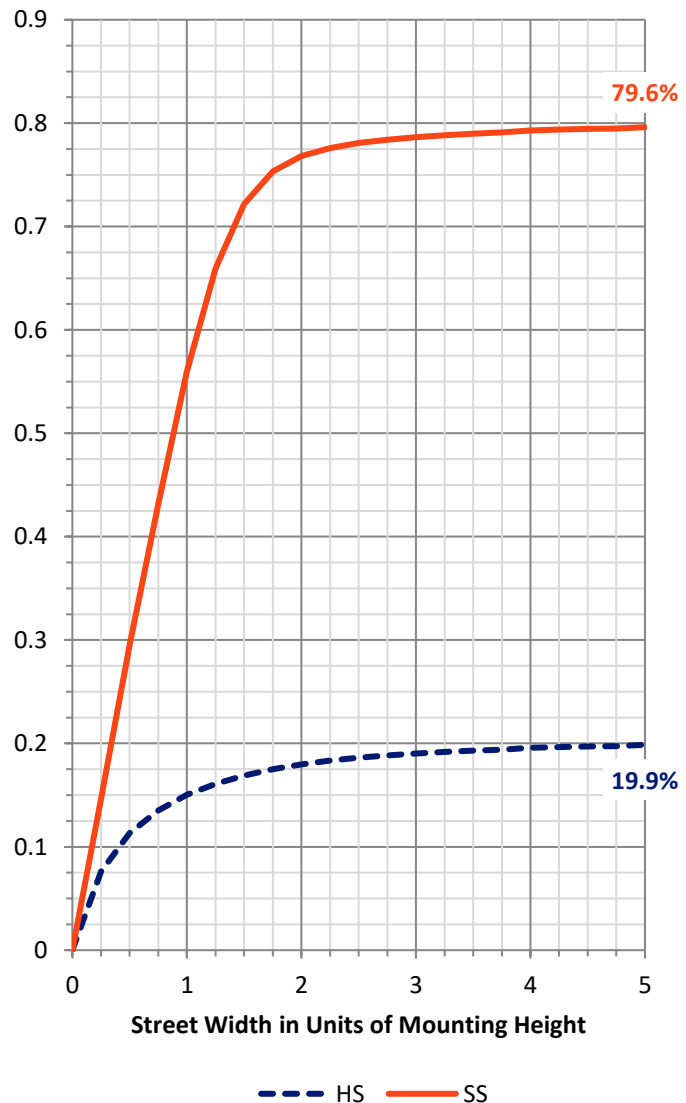
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7067.4	0.0	7067.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	27931.0	0.0	27931.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	34998.4	0.0	34998.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.6	1.2
10°-20°	1341.9	3.8
20°-30°	2303.4	6.6
30°-40°	3558.2	10.2
40°-50°	5699.4	16.3
50°-60°	8509.6	24.3
60°-70°	8743.6	25.0
70°-80°	3875.9	11.1
80°-90°	531.8	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°	34998.4	100.0
0°-180°	34998.4	100.0

**Coefficient of Utilization**



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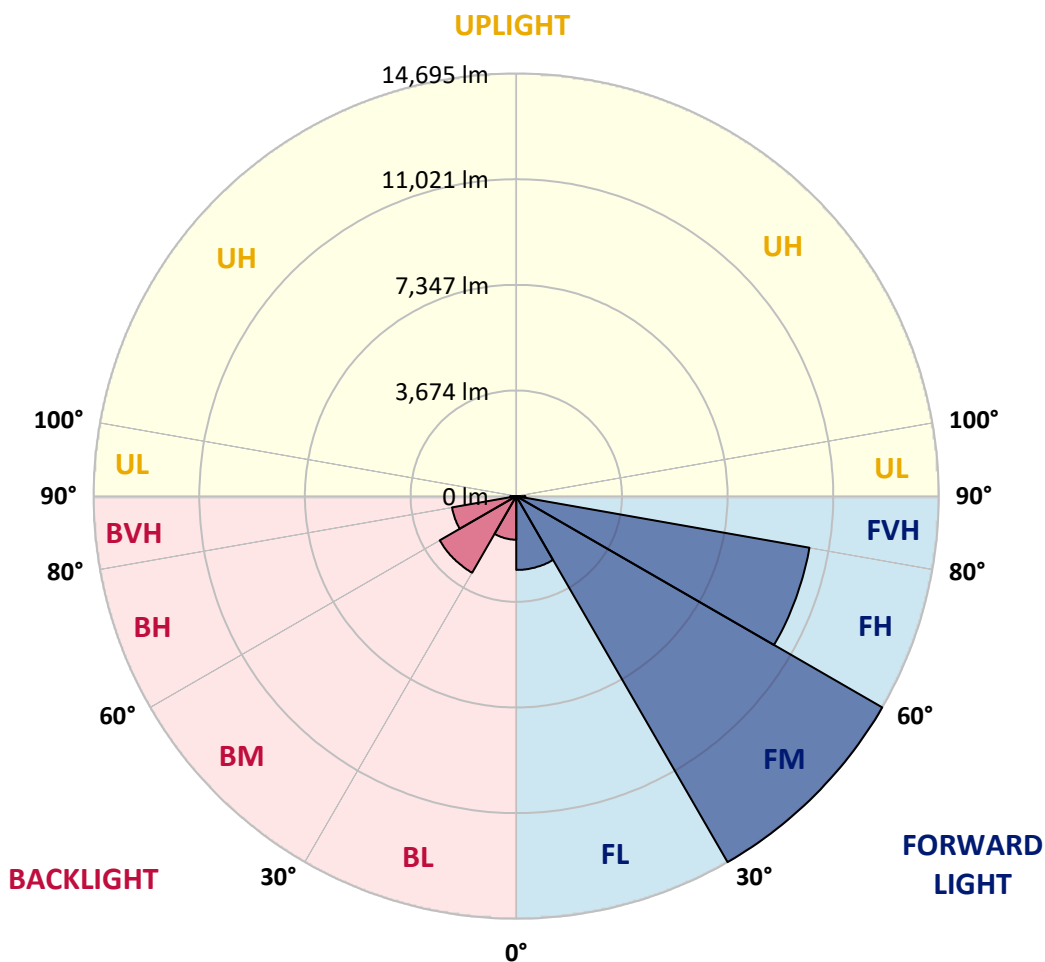
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2565.6	7.3			
FM (30°-60°)	14694.7	42.0			
FH (60°-80°)	10351.8	29.6			G4/12000
FVH (80°-90°)	319.0	0.9			G3/500
BL (0°-30°)	1514.2	4.3	B3/2500		
BM (30°-60°)	3072.6	8.8	B3/5000		
BH (60°-80°)	2267.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	212.8	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3
2.5°	4700.3	4704.2	4704.2	4688.8	4692.7	4704.2	4661.9	4569.5	4569.5	4554.1	4527.1
5°	4989.1	4969.8	4942.9	4946.7	4931.3	4931.3	4885.1	4796.6	4719.6	4688.8	4608.0
7.5°	5027.6	5046.8	5043.0	5089.2	5112.3	5112.3	5135.4	5062.2	4946.7	4873.6	4792.7
10°	5104.6	5054.5	5050.7	5158.5	5193.1	5273.9	5366.3	5327.8	5231.6	5127.7	5019.9
12.5°	5150.8	5181.5	5181.5	5235.4	5316.3	5435.6	5597.3	5670.4	5520.3	5412.5	5247.0
15°	5220.0	5177.7	5300.9	5347.1	5501.1	5585.8	5816.7	6005.4	5905.3	5774.4	5512.6
17.5°	5250.8	5223.9	5293.2	5377.9	5639.6	5766.7	6047.7	6309.5	6224.8	6140.1	5870.6
20°	5408.7	5404.8	5435.6	5504.9	5693.5	5943.8	6294.1	6655.9	6686.7	6532.8	6167.0
22.5°	5793.6	5743.6	5743.6	5716.6	5797.5	6055.4	6528.9	7029.4	7167.9	6987.0	6502.0
25°	6147.8	6217.1	6174.7	6051.6	6020.8	6155.5	6698.3	7425.9	7610.6	7441.3	6956.2
27.5°	6602.0	6625.1	6698.3	6532.8	6321.0	6363.4	6883.1	7649.1	8030.2	7803.1	7214.1
30°	7256.5	7214.1	7198.7	7014.0	6736.8	6679.0	7094.8	7976.4	8580.7	8261.2	7518.2
32.5°	7699.2	7803.1	7799.3	7545.2	7210.3	7083.2	7356.6	8284.3	9169.7	8873.3	8080.3
35°	8576.9	8684.7	8600.0	8226.6	7833.9	7579.8	7733.8	8684.7	9843.4	9612.4	8557.6
37.5°	9697.1	9951.2	9770.3	9081.2	8526.8	8249.7	8257.4	9119.7	10532.5	10343.8	9069.6
40°	10470.9	10813.5	10563.3	9916.5	9327.6	9065.8	8961.8	9635.5	11356.3	11156.1	9870.3
42.5°	11429.4	11714.3	11583.4	10944.4	10255.3	10032.0	9824.2	10497.8	12615.1	12522.7	10898.2
45°	12476.5	12611.3	12568.9	12164.7	11398.6	11321.6	10863.5	11633.5	14097.2	14135.7	12184.0
47.5°	13450.5	13523.6	13604.5	13311.9	12834.5	12900.0	12060.8	12849.9	15536.9	15791.0	13616.0
50°	13700.7	13950.9	14139.5	14335.9	14439.8	14882.5	13381.2	14343.6	17192.3	17685.0	15209.7
52.5°	13446.6	13427.4	14001.0	14616.9	15656.3	16584.0	15178.9	16199.1	18655.1	19629.1	16668.7
55°	12291.7	12253.2	13177.1	13993.3	16022.0	17531.0	17746.6	18670.5	20422.1	21688.6	18643.6
57.5°	10270.7	10032.0	11040.6	12380.3	15229.0	17635.0	20325.8	22339.2	23139.9	24583.5	21657.8
60°	6902.3	6802.2	7768.5	9366.1	12364.9	16160.6	21869.5	26931.7	26970.2	28594.8	26335.0
62.5°	4249.9	4269.2	4889.0	6086.2	8657.7	12811.4	21203.5	30600.4	30608.1	32236.5	30184.6
65°	2779.4	2791.0	3291.4	3953.5	5408.7	8688.5	17534.9	30889.1	33137.3	34650.2	31947.7
66°	2475.3	2479.1	2910.3	3449.2	4480.9	7110.2	15486.9	30138.4	33707.0	34969.7	31924.6
67.5°	2086.5	2136.5	2483.0	2898.7	3495.4	5108.4	12287.9	27967.3	33414.4	34523.1	31200.9
70°	1632.2	1659.2	1932.5	2355.9	2621.6	2956.5	7302.7	22797.3	30585.0	32382.7	28567.8
72.5°	1308.9	1332.0	1539.8	1913.2	2128.8	1947.9	3976.6	16541.7	24160.0	26077.1	22470.1
75°	1104.8	1108.7	1208.8	1505.2	1751.6	1462.8	2117.3	10617.2	15502.3	16395.4	13766.1
77.5°	893.1	908.5	977.8	1147.2	1408.9	1151.0	1262.7	5947.6	7783.9	7849.3	6363.4
80°	727.6	735.3	777.6	835.4	1074.0	850.8	854.6	2902.6	3337.6	3260.6	2586.9
82.5°	573.6	581.3	631.3	619.8	789.2	608.2	531.2	1397.4	1536.0	1505.2	1189.5
85°	323.4	323.4	496.6	496.6	500.4	385.0	323.4	658.3	812.3	758.4	558.2
87.5°	103.9	107.8	150.1	157.8	250.2	173.2	157.8	246.4	385.0	338.8	200.2
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°	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3	4419.3
2.5°	4511.7	4450.1	4423.2	4334.6	4311.5	4253.8	4226.8	4192.2	4180.7	4130.6	4176.8
5°	4546.4	4527.1	4419.3	4307.7	4223.0	4184.5	4126.8	4049.8	4042.1	3972.8	3965.1
7.5°	4692.7	4627.2	4438.6	4319.2	4149.9	4053.6	3926.6	3888.1	3838.0	3814.9	3865.0
10°	4919.8	4754.2	4473.2	4173.0	3965.1	3849.6	3757.2	3730.3	3734.1	3718.7	3695.6
12.5°	5081.5	4923.6	4415.5	4049.8	3780.3	3668.7	3661.0	3687.9	3730.3	3711.0	3738.0
15°	5312.4	5016.0	4373.1	3845.7	3630.2	3599.4	3595.5	3676.4	3672.5	3672.5	3668.7
17.5°	5528.0	5108.4	4219.2	3668.7	3472.3	3495.4	3522.4	3518.5	3557.0	3572.4	3599.4
20°	5801.3	5216.2	4003.6	3491.6	3353.0	3345.3	3341.4	3345.3	3383.8	3406.9	3387.6
22.5°	6040.0	5239.3	3822.6	3322.2	3210.6	3179.8	3129.7	3179.8	3160.5	3168.2	3191.3
25°	6247.9	5243.1	3564.7	3195.2	3068.1	2998.8	2960.3	2956.5	2921.8	2918.0	2918.0
27.5°	6421.1	5112.3	3337.6	3018.1	2898.7	2833.3	2829.4	2787.1	2698.6	2640.8	2648.5
30°	6555.9	5012.2	3179.8	2864.1	2748.6	2737.1	2702.4	2606.2	2490.7	2417.5	2417.5
32.5°	6794.5	4812.0	2964.2	2706.3	2648.5	2633.1	2552.3	2467.6	2359.8	2290.5	2279.0
35°	6971.6	4627.2	2821.7	2571.5	2544.6	2513.8	2444.5	2352.1	2321.3	2305.9	2317.5
37.5°	7171.8	4419.3	2648.5	2456.0	2483.0	2425.2	2344.4	2302.1	2409.8	2382.9	2394.4
40°	7491.3	4273.0	2479.1	2386.7	2413.7	2348.2	2244.3	2228.9	2363.6	2267.4	2244.3
42.5°	8076.4	4269.2	2375.2	2282.8	2302.1	2252.0	2159.6	2151.9	2205.8	2090.3	2055.7
45°	8804.0	4403.9	2298.2	2205.8	2190.4	2182.7	2151.9	2117.3	2071.1	1920.9	1882.4
47.5°	9674.0	4623.4	2282.8	2090.3	2109.6	2175.0	2136.5	2048.0	1928.6	1832.4	1813.2
50°	10728.8	5077.6	2244.3	2005.6	2040.3	2144.2	2113.4	1990.2	1882.4	1820.9	1809.3
52.5°	11895.2	5651.2	2194.3	1874.8	1951.7	2117.3	2132.7	2017.2	1859.4	1805.5	1797.8
55°	13269.5	6498.1	2136.5	1732.3	1847.8	2090.3	2132.7	1940.2	1828.6	1828.6	1820.9
57.5°	15983.5	8022.5	2017.2	1601.4	1755.4	2040.3	2071.1	1944.0	1832.4	1832.4	1817.0
60°	19964.0	10401.6	1790.1	1501.3	1666.9	1971.0	2024.9	1886.3	1790.1	1813.2	1809.3
62.5°	23078.3	11125.3	1597.6	1405.1	1578.3	1844.0	1963.3	1824.7	1740.0	1824.7	1832.4
65°	23744.3	10393.9	1401.3	1301.2	1455.1	1720.8	1874.8	1736.2	1666.9	1832.4	1840.1
66°	23505.6	9824.2	1332.0	1270.4	1401.3	1659.2	1820.9	1705.4	1628.4	1824.7	1828.6
67.5°	22443.1	8969.5	1255.0	1204.9	1328.1	1570.6	1759.3	1663.0	1566.8	1801.6	1767.0
70°	20133.4	7606.8	1124.1	1089.4	1224.2	1424.3	1616.8	1555.2	1470.5	1659.2	1597.6
72.5°	15506.1	6078.5	985.5	989.3	1104.8	1274.2	1474.4	1432.0	1358.9	1455.1	1416.6
75°	9443.0	3884.2	858.5	866.2	962.4	1131.8	1339.7	1308.9	1220.3	1274.2	1255.0
77.5°	4184.5	1924.8	723.7	739.1	816.1	997.0	1166.4	1116.4	1024.0	1035.5	1027.8
80°	1624.5	912.4	589.0	608.2	658.3	796.9	966.2	920.1	839.2	823.8	816.1
82.5°	781.5	508.1	454.3	462.0	481.2	635.2	831.5	773.8	666.0	596.7	596.7
85°	392.7	315.7	319.5	292.6	319.5	431.2	562.0	469.6	388.8	346.5	354.2
87.5°	157.8	157.8	157.8	134.7	142.4	204.0	261.8	177.1	161.7	96.2	96.2
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)