

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: P476542

Luminaire Tested: **IFLD-M-SA4E-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476542  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

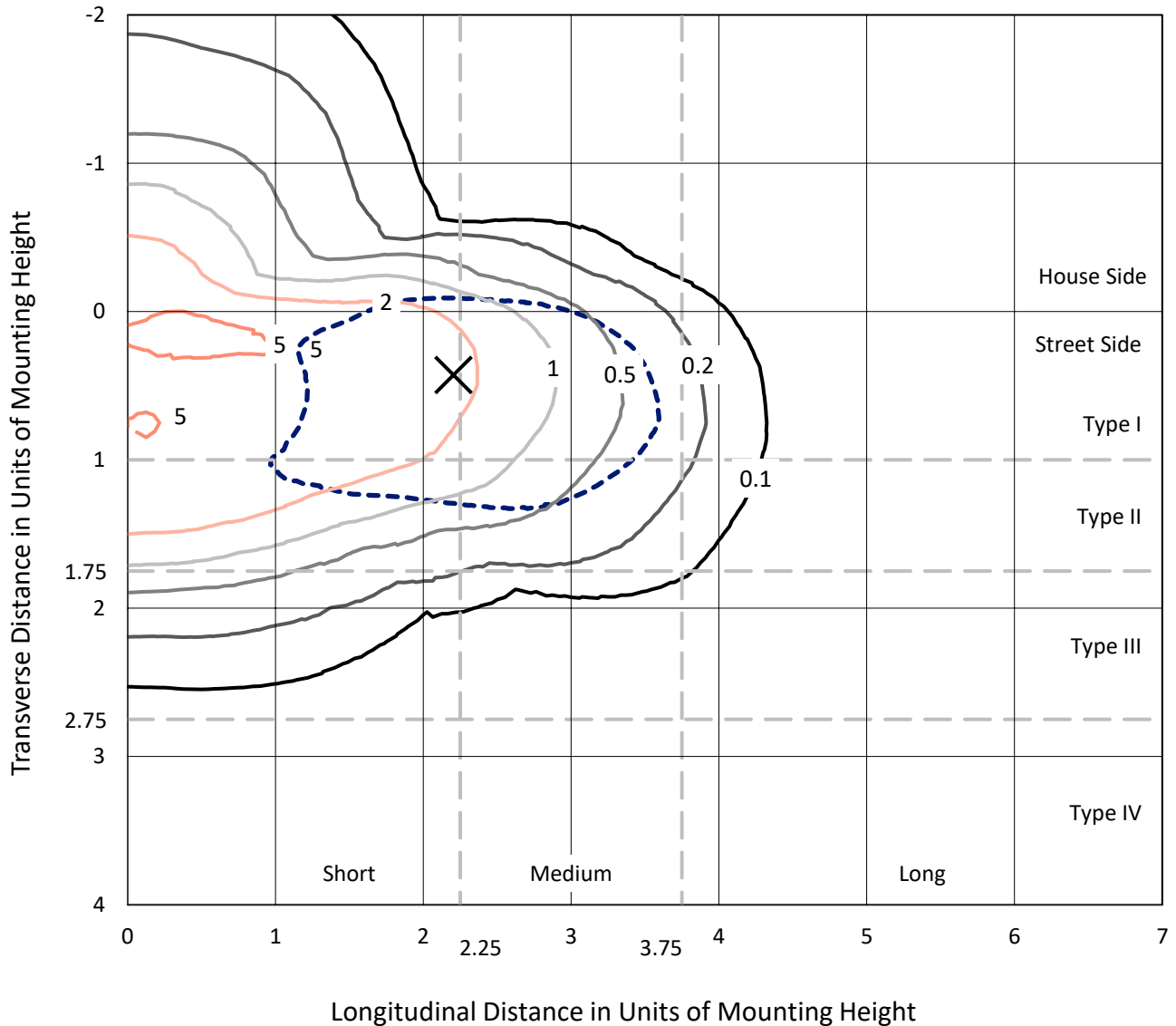
Lumens per Lamp: N/A  
Luminaire Lumens: 32928.1 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8  
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

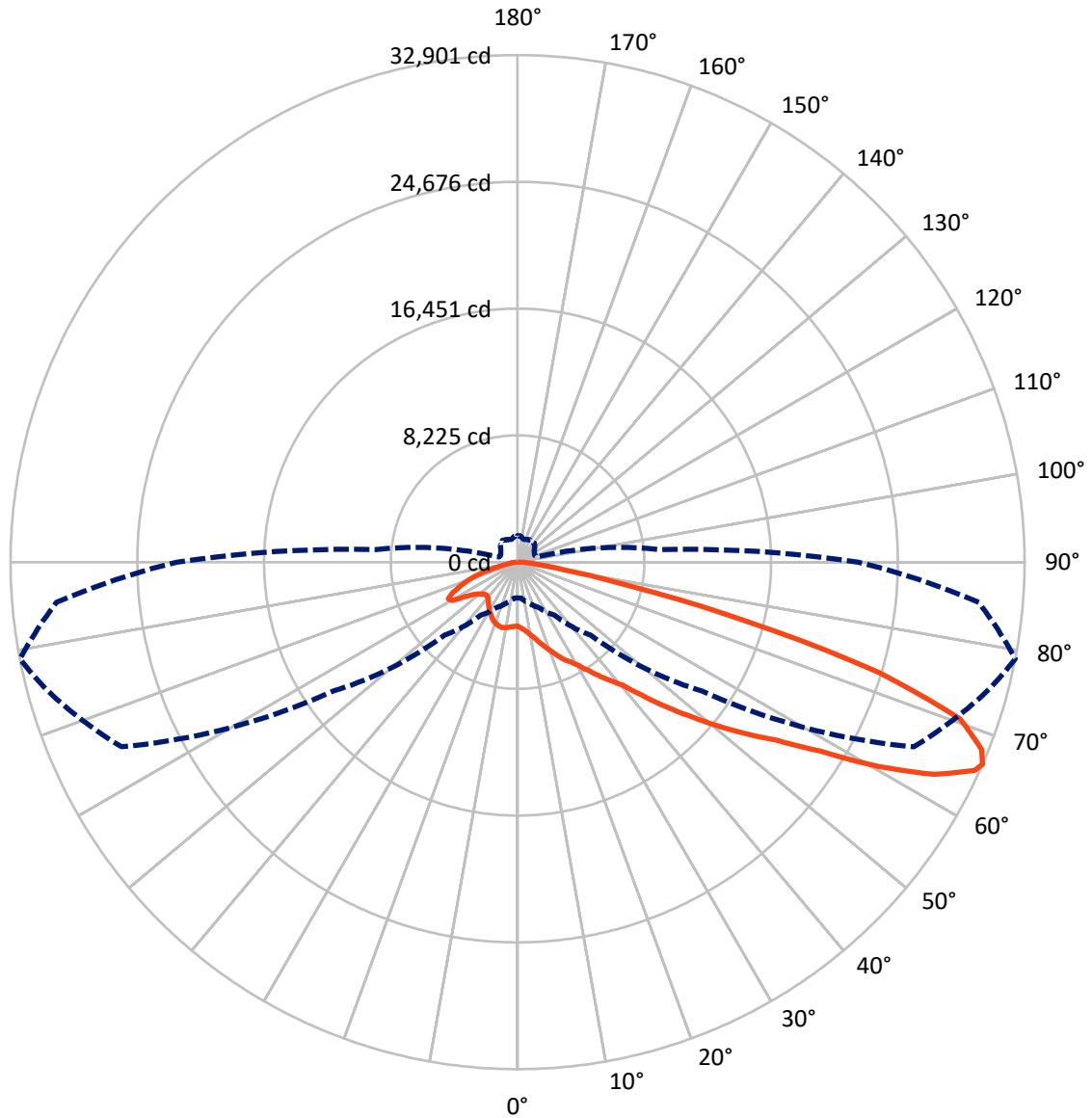
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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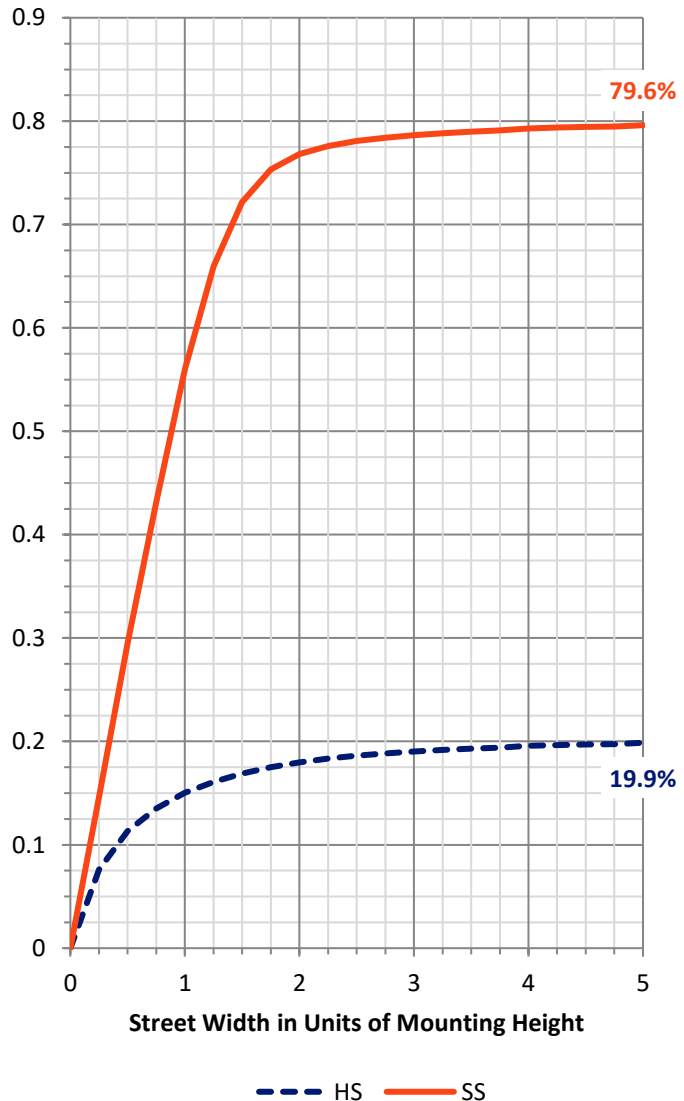
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6649.4	0.0	6649.4
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	26278.7	0.0	26278.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	32928.1	0.0	32928.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.8	1.2
10°-20°	1262.5	3.8
20°-30°	2167.1	6.6
30°-40°	3347.7	10.2
40°-50°	5362.3	16.3
50°-60°	8006.2	24.3
60°-70°	8226.4	25.0
70°-80°	3646.7	11.1
80°-90°	500.3	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°	32928.1	100.0
0°-180°	32928.1	100.0

**Coefficient of Utilization**



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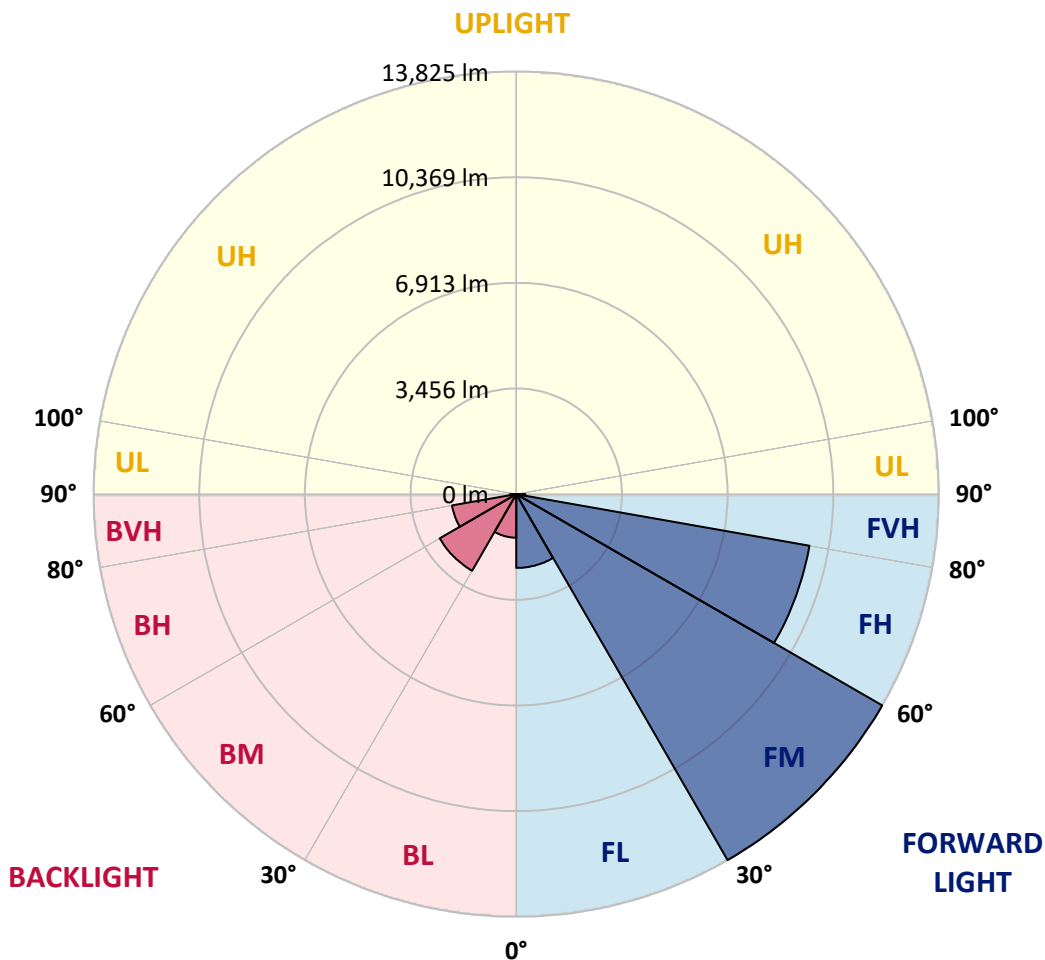
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.8	7.3			
FM (30°-60°)	13825.4	42.0			
FH (60°-80°)	9739.4	29.6			G4/12000
FVH (80°-90°)	300.1	0.9			G3/500
BL (0°-30°)	1424.6	4.3	B3/2500		
BM (30°-60°)	2890.8	8.8	B3/5000		
BH (60°-80°)	2133.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	200.3	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°	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9
2.5°	4422.3	4425.9	4425.9	4411.4	4415.1	4425.9	4386.1	4299.2	4299.2	4284.7	4259.3
5°	4693.9	4675.8	4650.5	4654.1	4639.6	4639.6	4596.2	4512.9	4440.4	4411.4	4335.4
7.5°	4730.2	4748.3	4744.7	4788.1	4809.8	4809.8	4831.6	4762.8	4654.1	4585.3	4509.2
10°	4802.6	4755.5	4751.9	4853.3	4885.9	4962.0	5048.9	5012.7	4922.1	4824.3	4722.9
12.5°	4846.1	4875.0	4875.0	4925.7	5001.8	5114.1	5266.2	5335.0	5193.8	5092.3	4936.6
15°	4911.3	4871.4	4987.3	5030.8	5175.7	5255.3	5472.6	5650.1	5555.9	5432.8	5186.5
17.5°	4940.2	4914.9	4980.1	5059.8	5306.0	5425.6	5690.0	5936.2	5856.6	5776.9	5523.4
20°	5088.7	5085.1	5114.1	5179.3	5356.7	5592.2	5921.8	6262.2	6291.2	6146.3	5802.2
22.5°	5450.9	5403.8	5403.8	5378.5	5454.5	5697.2	6142.7	6613.5	6743.9	6573.7	6117.3
25°	5784.1	5849.3	5809.5	5693.6	5664.6	5791.4	6302.1	6986.6	7160.4	7001.1	6544.7
27.5°	6211.5	6233.2	6302.1	6146.3	5947.1	5987.0	6475.9	7196.7	7555.2	7341.5	6787.4
30°	6827.2	6787.4	6772.9	6599.0	6338.3	6283.9	6675.1	7504.5	8073.1	7772.5	7073.5
32.5°	7243.7	7341.5	7337.9	7098.9	6783.8	6664.2	6921.4	7794.3	8627.3	8348.4	7602.3
35°	8069.5	8170.9	8091.3	7739.9	7370.5	7131.5	7276.3	8170.9	9261.1	9043.8	8051.4
37.5°	9123.5	9362.5	9192.3	8544.0	8022.4	7761.7	7768.9	8580.2	9909.4	9732.0	8533.1
40°	9851.5	10173.8	9938.4	9329.9	8775.8	8529.5	8431.7	9065.5	10684.5	10496.2	9286.5
42.5°	10753.3	11021.4	10898.2	10297.0	9648.7	9438.6	9243.0	9876.8	11868.9	11781.9	10253.5
45°	11738.5	11865.2	11825.4	11445.1	10724.4	10651.9	10220.9	10945.3	13263.3	13299.5	11463.2
47.5°	12654.8	12723.6	12799.7	12524.4	12075.3	12136.9	11347.3	12089.8	14617.9	14856.9	12810.6
50°	12890.2	13125.7	13303.1	13487.8	13585.6	14002.2	12589.6	13495.1	16175.3	16638.9	14310.0
52.5°	12651.2	12633.1	13172.7	13752.2	14730.1	15603.0	14281.0	15240.8	17551.6	18467.9	15682.7
55°	11564.6	11528.4	12397.7	13165.5	15074.2	16494.0	16696.8	17566.1	19214.0	20405.6	17540.7
57.5°	9663.1	9438.6	10387.5	11647.9	14328.1	16591.8	19123.5	21017.7	21771.1	23129.3	20376.6
60°	6494.0	6399.8	7308.9	8812.0	11633.4	15204.6	20575.8	25338.6	25374.8	26903.3	24777.2
62.5°	3998.5	4016.7	4599.8	5726.2	8145.6	12053.6	19949.3	28790.2	28797.5	30329.5	28399.1
65°	2615.0	2625.9	3096.7	3719.7	5088.7	8174.6	16497.6	29061.9	31177.1	32600.5	30057.9
66°	2328.9	2332.5	2738.1	3245.2	4215.9	6689.6	14570.8	28355.6	31713.1	32901.1	30036.2
67.5°	1963.1	2010.1	2336.1	2727.3	3288.7	4806.2	11561.0	26312.9	31437.8	32480.9	29355.3
70°	1535.7	1561.0	1818.2	2216.6	2466.5	2781.6	6870.7	21448.7	28775.8	30467.2	26877.9
72.5°	1231.4	1253.2	1448.7	1800.1	2002.9	1832.7	3741.4	15563.2	22730.9	24534.5	21140.9
75°	1039.5	1043.1	1137.3	1416.2	1648.0	1376.3	1992.0	9989.1	14585.3	15425.5	12951.8
77.5°	840.3	854.8	920.0	1079.3	1325.6	1082.9	1188.0	5595.8	7323.4	7385.0	5987.0
80°	684.5	691.8	731.6	785.9	1010.5	800.4	804.1	2730.9	3140.2	3067.7	2433.9
82.5°	539.7	546.9	594.0	583.1	742.5	572.3	499.8	1314.7	1445.1	1416.2	1119.2
85°	304.2	304.2	467.2	467.2	470.8	362.2	304.2	619.3	764.2	713.5	525.2
87.5°	97.8	101.4	141.3	148.5	235.4	163.0	148.5	231.8	362.2	318.7	188.3
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°	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9	4157.9
2.5°	4244.8	4186.9	4161.5	4078.2	4056.5	4002.2	3976.8	3944.2	3933.4	3886.3	3929.7
5°	4277.4	4259.3	4157.9	4052.9	3973.2	3937.0	3882.6	3810.2	3803.0	3737.8	3730.5
7.5°	4415.1	4353.5	4176.0	4063.7	3904.4	3813.8	3694.3	3658.1	3611.0	3589.3	3636.4
10°	4628.8	4473.0	4208.6	3926.1	3730.5	3621.9	3534.9	3509.6	3513.2	3498.7	3477.0
12.5°	4780.9	4632.4	4154.3	3810.2	3556.7	3451.6	3444.4	3469.8	3509.6	3491.5	3516.8
15°	4998.2	4719.3	4114.4	3618.2	3415.4	3386.4	3382.8	3458.9	3455.3	3455.3	3451.6
17.5°	5201.0	4806.2	3969.6	3451.6	3266.9	3288.7	3314.0	3310.4	3346.6	3361.1	3386.4
20°	5458.2	4907.6	3766.7	3285.0	3154.6	3147.4	3143.8	3147.4	3183.6	3205.4	3187.2
22.5°	5682.7	4929.4	3596.5	3125.7	3020.6	2991.7	2944.6	2991.7	2973.6	2980.8	3002.5
25°	5878.3	4933.0	3353.9	3006.2	2886.6	2821.4	2785.2	2781.6	2749.0	2745.4	2745.4
27.5°	6041.3	4809.8	3140.2	2839.5	2727.3	2665.7	2662.1	2622.2	2538.9	2484.6	2491.8
30°	6168.0	4715.7	2991.7	2694.7	2586.0	2575.1	2542.6	2452.0	2343.4	2274.5	2274.5
32.5°	6392.6	4527.3	2788.8	2546.2	2491.8	2477.4	2401.3	2321.6	2220.2	2155.0	2144.1
35°	6559.2	4353.5	2654.8	2419.4	2394.1	2365.1	2299.9	2213.0	2184.0	2169.5	2180.4
37.5°	6747.5	4157.9	2491.8	2310.8	2336.1	2281.8	2205.7	2165.9	2267.3	2241.9	2252.8
40°	7048.2	4020.3	2332.5	2245.6	2270.9	2209.3	2111.6	2097.1	2223.8	2133.3	2111.6
42.5°	7598.7	4016.7	2234.7	2147.8	2165.9	2118.8	2031.9	2024.6	2075.3	1966.7	1934.1
45°	8283.2	4143.4	2162.3	2075.3	2060.8	2053.6	2024.6	1992.0	1948.6	1807.3	1771.1
47.5°	9101.8	4349.9	2147.8	1966.7	1984.8	2046.4	2010.1	1926.8	1814.6	1724.0	1705.9
50°	10094.2	4777.2	2111.6	1887.0	1919.6	2017.4	1988.4	1872.5	1771.1	1713.1	1702.3
52.5°	11191.6	5316.9	2064.5	1763.9	1836.3	1992.0	2006.5	1897.9	1749.4	1698.7	1691.4
55°	12484.6	6113.7	2010.1	1629.8	1738.5	1966.7	2006.5	1825.4	1720.4	1720.4	1713.1
57.5°	15038.0	7548.0	1897.9	1506.7	1651.6	1919.6	1948.6	1829.0	1724.0	1724.0	1709.5
60°	18783.0	9786.3	1684.2	1412.5	1568.3	1854.4	1905.1	1774.7	1684.2	1705.9	1702.3
62.5°	21713.1	10467.2	1503.1	1322.0	1485.0	1734.9	1847.2	1716.8	1637.1	1716.8	1724.0
65°	22339.7	9779.0	1318.4	1224.2	1369.1	1619.0	1763.9	1633.5	1568.3	1724.0	1731.3
66°	22115.1	9243.0	1253.2	1195.2	1318.4	1561.0	1713.1	1604.5	1532.1	1716.8	1720.4
67.5°	21115.5	8439.0	1180.7	1133.6	1249.5	1477.7	1655.2	1564.6	1474.1	1695.0	1662.4
70°	18942.4	7156.8	1057.6	1025.0	1151.8	1340.1	1521.2	1463.2	1383.6	1561.0	1503.1
72.5°	14588.9	5718.9	927.2	930.8	1039.5	1198.8	1387.2	1347.3	1278.5	1369.1	1332.8
75°	8884.4	3654.5	807.7	814.9	905.5	1064.8	1260.4	1231.4	1148.1	1198.8	1180.7
77.5°	3937.0	1810.9	680.9	695.4	767.8	938.1	1097.4	1050.3	963.4	974.3	967.0
80°	1528.4	858.4	554.1	572.3	619.3	749.7	909.1	865.6	789.6	775.1	767.8
82.5°	735.2	478.1	427.4	434.6	452.7	597.6	782.3	728.0	626.6	561.4	561.4
85°	369.4	297.0	300.6	275.3	300.6	405.6	528.8	441.9	365.8	326.0	333.2
87.5°	148.5	148.5	148.5	126.8	134.0	192.0	246.3	166.6	152.1	90.5	90.5
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)