

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: P476617

Luminaire Tested: **IFLD-M-SA4B-740-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476617  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-740-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

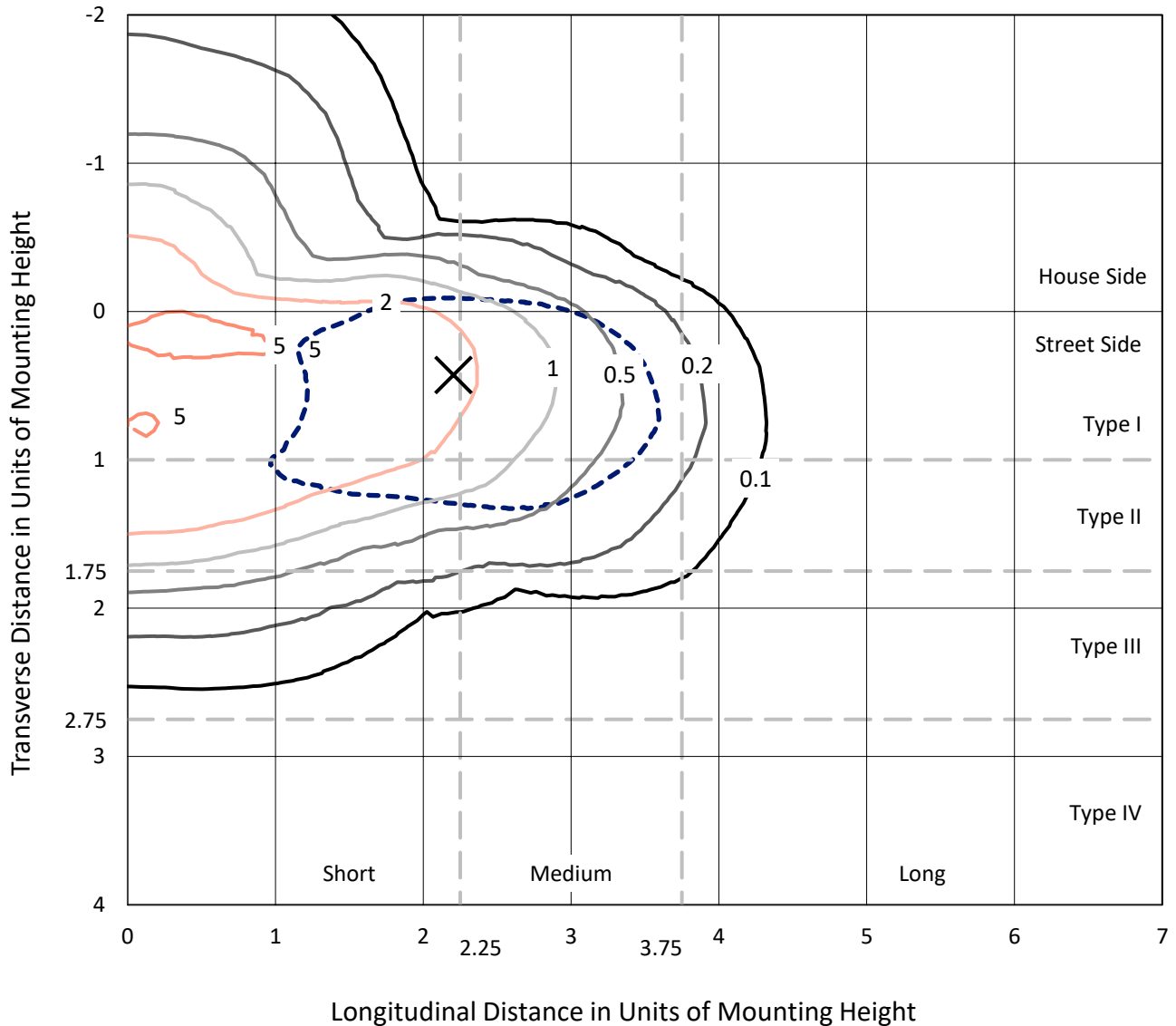
Lumens per Lamp: N/A  
Luminaire Lumens: 22811.9 lumens  
Efficiency: N/A  
Efficacy: 137.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

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

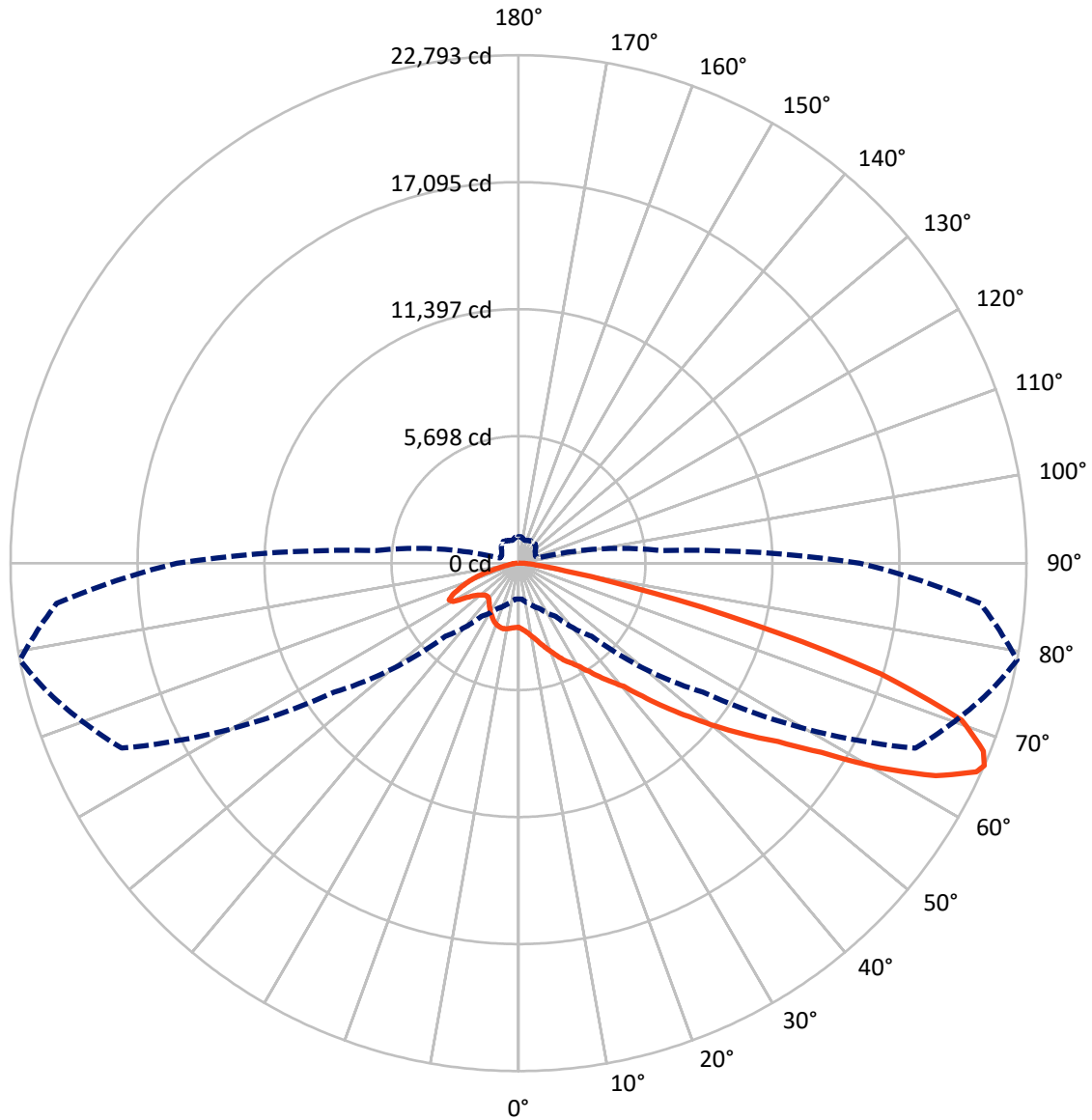
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

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CATALOG NUMBER: IFLD-M-SA4B-740-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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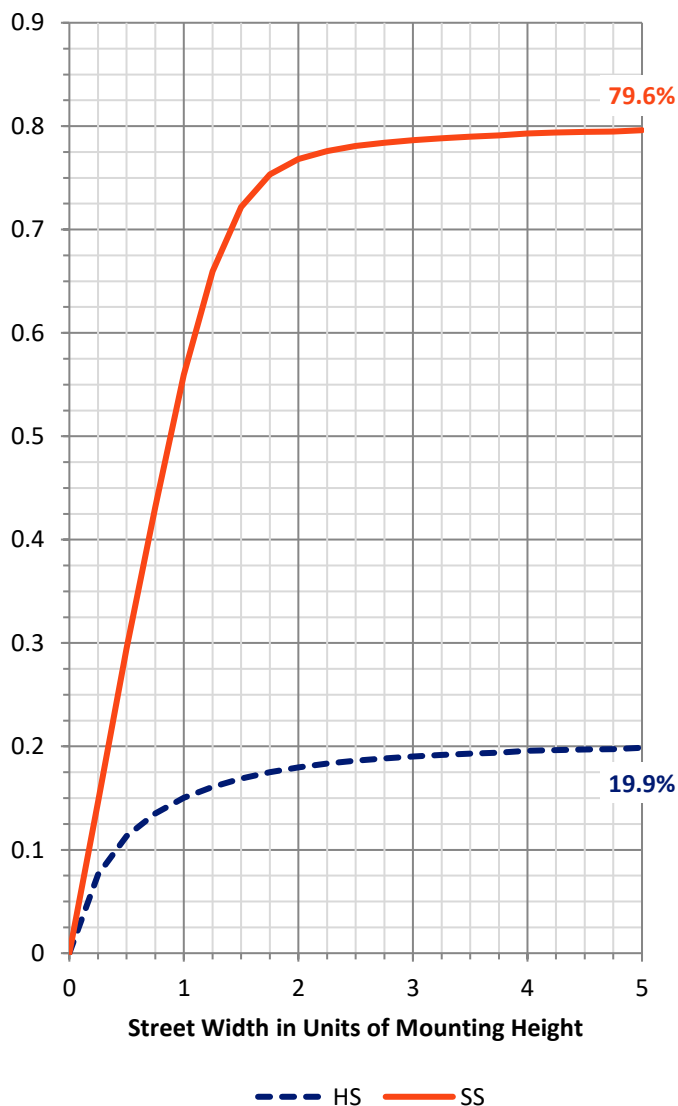
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4606.5	0.0	4606.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	18205.3	0.0	18205.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	22811.9	0.0	22811.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.2	1.2
10°-20°	874.6	3.8
20°-30°	1501.3	6.6
30°-40°	2319.2	10.2
40°-50°	3714.9	16.3
50°-60°	5546.5	24.3
60°-70°	5699.1	25.0
70°-80°	2526.3	11.1
80°-90°	346.6	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°	22811.9	100.0
0°-180°	22811.9	100.0

**Coefficient of Utilization**



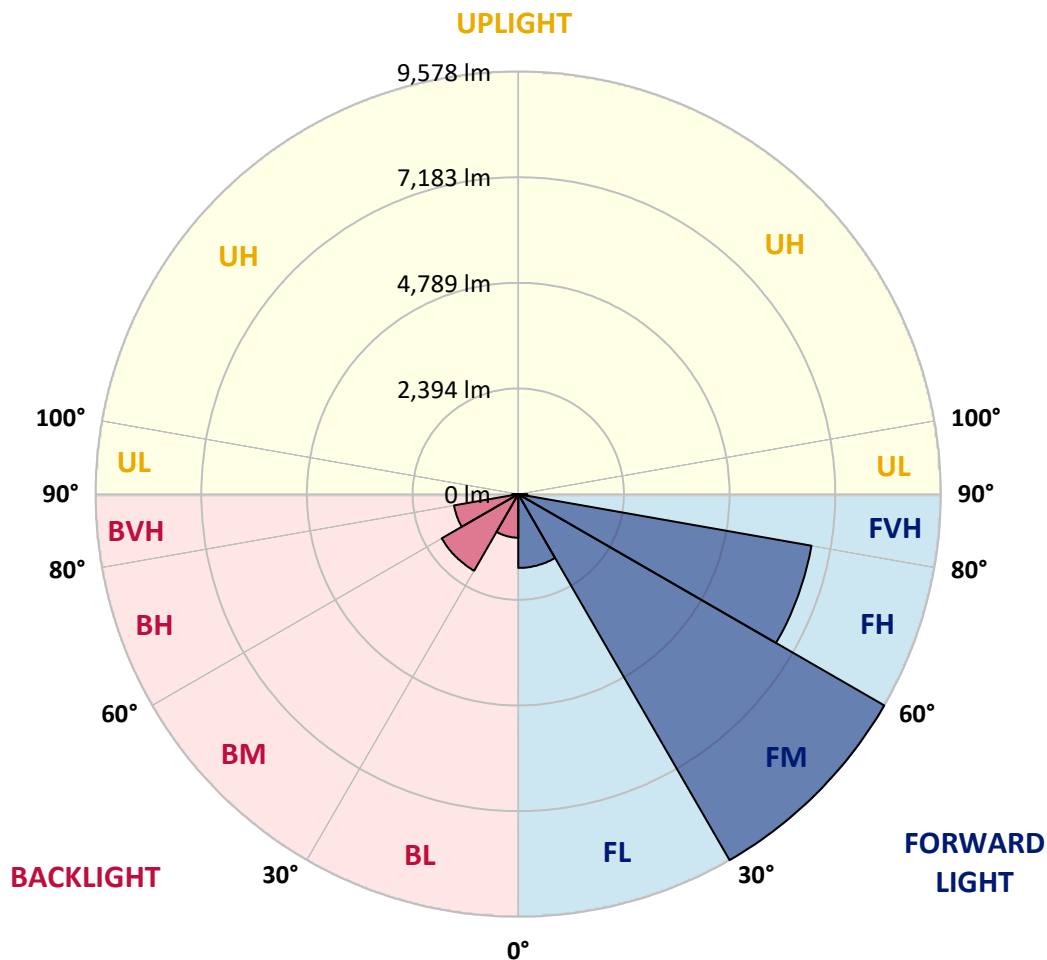
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 CATALOG NUMBER: IFLD-M-SA4B-740-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.3	7.3			
FM (30°-60°)	9577.9	42.0			
FH (60°-80°)	6747.2	29.6			G3/7500
FVH (80°-90°)	207.9	0.9			G2/225
BL (0°-30°)	986.9	4.3	B2/1000		
BM (30°-60°)	2002.7	8.8	B2/2500		
BH (60°-80°)	1478.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	138.7	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°	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5
2.5°	3063.7	3066.2	3066.2	3056.1	3058.7	3066.2	3038.6	2978.4	2978.4	2968.3	2950.8
5°	3251.9	3239.3	3221.8	3224.3	3214.2	3214.2	3184.1	3126.4	3076.2	3056.1	3003.5
7.5°	3277.0	3289.5	3287.0	3317.1	3332.2	3332.2	3347.2	3299.5	3224.3	3176.6	3123.9
10°	3327.1	3294.5	3292.0	3362.3	3384.8	3437.5	3497.8	3472.7	3409.9	3342.2	3271.9
12.5°	3357.2	3377.3	3377.3	3412.4	3465.1	3542.9	3648.3	3696.0	3598.1	3527.9	3420.0
15°	3402.4	3374.8	3455.1	3485.2	3585.6	3640.8	3791.3	3914.3	3849.0	3763.7	3593.1
17.5°	3422.5	3404.9	3450.1	3505.3	3675.9	3758.7	3941.9	4112.5	4057.3	4002.1	3826.5
20°	3525.4	3522.9	3542.9	3588.1	3711.0	3874.1	4102.5	4338.3	4358.4	4258.0	4019.7
22.5°	3776.3	3743.7	3743.7	3726.1	3778.8	3946.9	4255.5	4581.7	4672.0	4554.1	4238.0
25°	4007.1	4052.3	4024.7	3944.4	3924.3	4012.1	4365.9	4840.2	4960.6	4850.2	4534.0
27.5°	4303.2	4318.3	4365.9	4258.0	4120.0	4147.6	4486.4	4985.7	5234.1	5086.1	4702.2
30°	4729.8	4702.2	4692.1	4571.7	4391.0	4353.4	4624.4	5199.0	5592.9	5384.6	4900.4
32.5°	5018.3	5086.1	5083.5	4917.9	4699.6	4616.8	4795.0	5399.7	5976.8	5783.6	5266.7
35°	5590.4	5660.6	5605.4	5362.1	5106.1	4940.5	5040.9	5660.6	6415.9	6265.4	5577.8
37.5°	6320.6	6486.2	6368.2	5919.1	5557.8	5377.1	5382.1	5944.2	6865.0	6742.1	5911.6
40°	6824.9	7048.2	6885.1	6463.6	6079.7	5909.1	5841.3	6280.4	7402.0	7271.5	6433.5
42.5°	7449.7	7635.4	7550.0	7133.5	6684.4	6538.9	6403.4	6842.5	8222.5	8162.3	7103.4
45°	8132.2	8220.0	8192.4	7928.9	7429.6	7379.4	7080.8	7582.7	9188.5	9213.6	7941.5
47.5°	8767.0	8814.7	8867.3	8676.7	8365.5	8408.2	7861.2	8375.6	10126.9	10292.5	8874.9
50°	8930.1	9093.2	9216.1	9344.1	9411.8	9700.4	8721.8	9349.1	11205.9	11527.0	9913.7
52.5°	8764.5	8751.9	9125.8	9527.3	10204.7	10809.4	9893.6	10558.5	12159.4	12794.2	10864.6
55°	8011.7	7986.6	8588.8	9120.8	10443.1	11426.7	11567.2	12169.4	13311.1	14136.6	12151.8
57.5°	6694.4	6538.9	7196.3	8069.4	9926.2	11494.4	13248.3	14560.6	15082.5	16023.5	14116.5
60°	4498.9	4433.7	5063.5	6104.8	8059.4	10533.4	14254.5	17554.0	17579.1	18638.0	17165.1
62.5°	2770.1	2782.7	3186.6	3967.0	5643.1	8350.5	13820.4	19945.3	19950.3	21011.6	19674.3
65°	1811.6	1819.1	2145.3	2576.9	3525.4	5663.2	11429.2	20133.4	21598.8	22584.9	20823.5
66°	1613.4	1615.9	1896.9	2248.2	2920.7	4634.4	10094.3	19644.2	21970.1	22793.1	20808.4
67.5°	1360.0	1392.6	1618.4	1889.4	2278.3	3329.6	8009.2	18229.0	21779.4	22502.1	20336.7
70°	1063.9	1081.4	1259.6	1535.6	1708.7	1927.0	4759.9	14859.2	19935.2	21107.0	18620.4
72.5°	853.1	868.2	1003.7	1247.0	1387.6	1269.6	2592.0	10781.8	15747.4	16997.0	14645.9
75°	720.1	722.6	787.9	981.1	1141.7	953.5	1380.0	6920.2	10104.4	10686.5	8972.7
77.5°	582.1	592.2	637.3	747.7	918.4	750.2	823.0	3876.6	5073.5	5116.2	4147.6
80°	474.2	479.2	506.8	544.5	700.1	554.5	557.0	1891.9	2175.4	2125.3	1686.2
82.5°	373.9	378.9	411.5	404.0	514.4	396.4	346.3	910.8	1001.2	981.1	775.3
85°	210.8	210.8	323.7	323.7	326.2	250.9	210.8	429.1	529.4	494.3	363.8
87.5°	67.7	70.3	97.9	102.9	163.1	112.9	102.9	160.6	250.9	220.8	130.5
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°	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5
2.5°	2940.7	2900.6	2883.0	2825.3	2810.3	2772.6	2755.1	2732.5	2724.9	2692.3	2722.4
5°	2963.3	2950.8	2880.5	2807.7	2752.5	2727.4	2689.8	2639.6	2634.6	2589.4	2584.4
7.5°	3058.7	3016.0	2893.1	2815.3	2704.9	2642.1	2559.3	2534.2	2501.6	2486.6	2519.2
10°	3206.7	3098.8	2915.6	2719.9	2584.4	2509.2	2448.9	2431.4	2433.9	2423.8	2408.8
12.5°	3312.1	3209.2	2878.0	2639.6	2464.0	2391.2	2386.2	2403.8	2431.4	2418.8	2436.4
15°	3462.6	3269.4	2850.4	2506.6	2366.1	2346.1	2343.5	2396.2	2393.7	2393.7	2391.2
17.5°	3603.1	3329.6	2750.0	2391.2	2263.3	2278.3	2295.9	2293.4	2318.5	2328.5	2346.1
20°	3781.3	3399.9	2609.5	2275.8	2185.5	2180.5	2177.9	2180.5	2205.5	2220.6	2208.1
22.5°	3936.9	3415.0	2491.6	2165.4	2092.6	2072.6	2039.9	2072.6	2060.0	2065.0	2080.1
25°	4072.4	3417.5	2323.5	2082.6	1999.8	1954.6	1929.5	1927.0	1904.4	1901.9	1901.9
27.5°	4185.3	3332.2	2175.4	1967.2	1889.4	1846.7	1844.2	1816.6	1758.9	1721.3	1726.3
30°	4273.1	3266.9	2072.6	1866.8	1791.5	1784.0	1761.4	1698.7	1623.4	1575.7	1575.7
32.5°	4428.7	3136.4	1932.0	1763.9	1726.3	1716.3	1663.6	1608.4	1538.1	1492.9	1485.4
35°	4544.1	3016.0	1839.2	1676.1	1658.6	1638.5	1593.3	1533.1	1513.0	1503.0	1510.5
37.5°	4674.6	2880.5	1726.3	1600.8	1618.4	1580.8	1528.1	1500.5	1570.7	1553.2	1560.7
40°	4882.8	2785.2	1615.9	1555.7	1573.2	1530.6	1462.8	1452.8	1540.6	1477.9	1462.8
42.5°	5264.2	2782.7	1548.1	1487.9	1500.5	1467.9	1407.6	1402.6	1437.7	1362.5	1339.9
45°	5738.4	2870.5	1498.0	1437.7	1427.7	1422.7	1402.6	1380.0	1349.9	1252.1	1227.0
47.5°	6305.5	3013.5	1487.9	1362.5	1375.0	1417.7	1392.6	1334.9	1257.1	1194.4	1181.8
50°	6993.0	3309.6	1462.8	1307.3	1329.9	1397.6	1377.5	1297.2	1227.0	1186.8	1179.3
52.5°	7753.3	3683.4	1430.2	1222.0	1272.1	1380.0	1390.1	1314.8	1211.9	1176.8	1171.8
55°	8649.1	4235.5	1392.6	1129.1	1204.4	1362.5	1390.1	1264.6	1191.8	1191.8	1186.8
57.5°	10418.0	5229.1	1314.8	1043.8	1144.2	1329.9	1349.9	1267.1	1194.4	1194.4	1184.3
60°	13012.5	6779.7	1166.8	978.6	1086.5	1284.7	1319.8	1229.5	1166.8	1181.8	1179.3
62.5°	15042.4	7251.5	1041.3	915.8	1028.8	1201.9	1279.7	1189.3	1134.1	1189.3	1194.4
65°	15476.5	6774.7	913.3	848.1	948.5	1121.6	1222.0	1131.6	1086.5	1194.4	1199.4
66°	15320.9	6403.4	868.2	828.0	913.3	1081.4	1186.8	1111.6	1061.4	1189.3	1191.8
67.5°	14628.4	5846.3	818.0	785.4	865.7	1023.7	1146.7	1084.0	1021.2	1174.3	1151.7
70°	13122.9	4958.1	732.7	710.1	797.9	928.4	1053.8	1013.7	958.5	1081.4	1041.3
72.5°	10106.9	3962.0	642.3	644.9	720.1	830.5	961.0	933.4	885.7	948.5	923.4
75°	6155.0	2531.7	559.5	564.6	627.3	737.7	873.2	853.1	795.4	830.5	818.0
77.5°	2727.4	1254.6	471.7	481.8	531.9	649.9	760.3	727.7	667.4	675.0	669.9
80°	1058.9	594.7	383.9	396.4	429.1	519.4	629.8	599.7	547.0	537.0	531.9
82.5°	509.4	331.2	296.1	301.1	313.6	414.0	542.0	504.3	434.1	388.9	388.9
85°	255.9	205.8	208.3	190.7	208.3	281.0	366.3	306.1	253.4	225.8	230.8
87.5°	102.9	102.9	102.9	87.8	92.8	133.0	170.6	115.4	105.4	62.7	62.7
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)