

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: P476505

Luminaire Tested: **IFLD-L-SA7B-727-U-T2**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476505  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-727-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

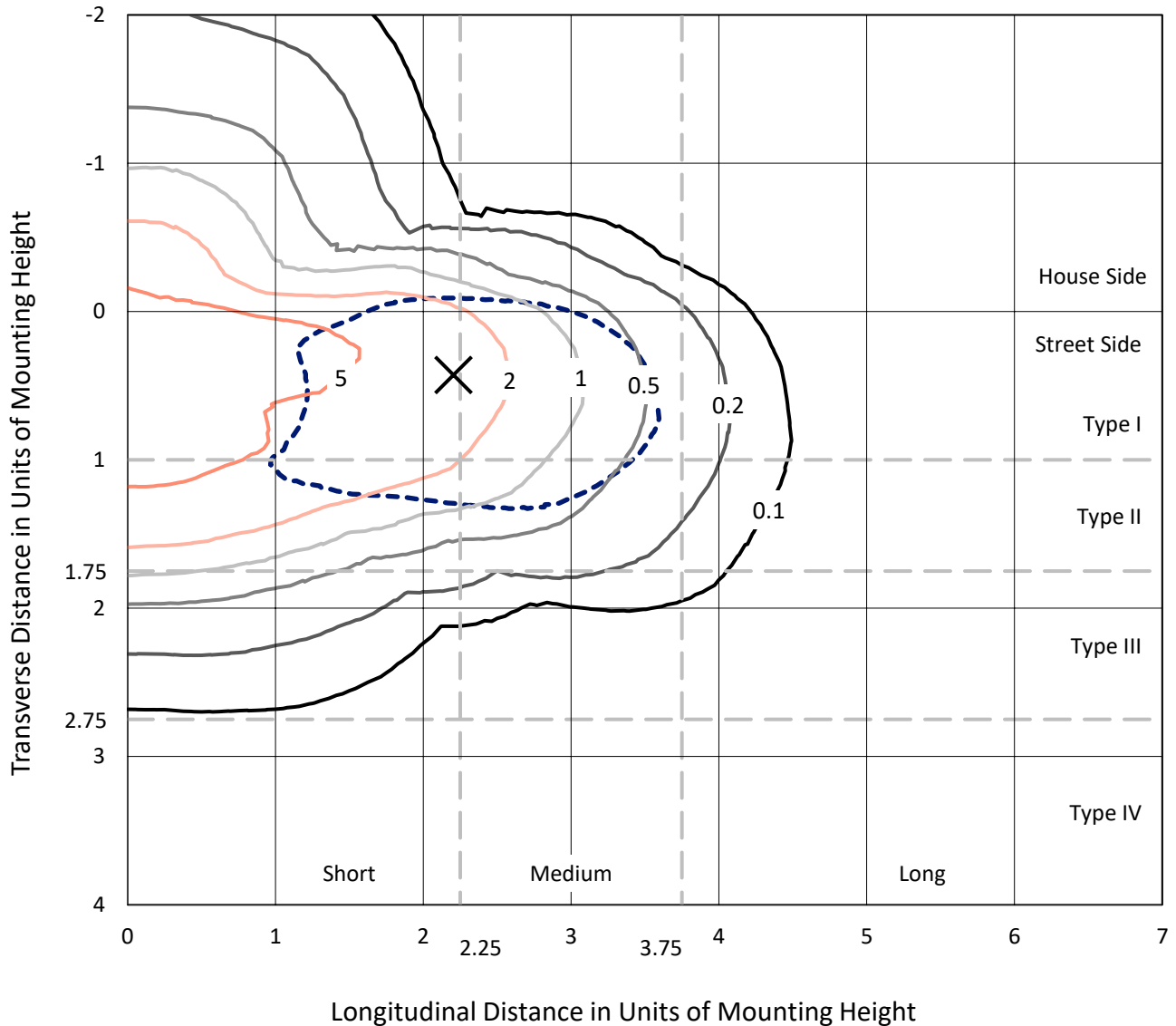
Lumens per Lamp: N/A  
Luminaire Lumens: 29746.4 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

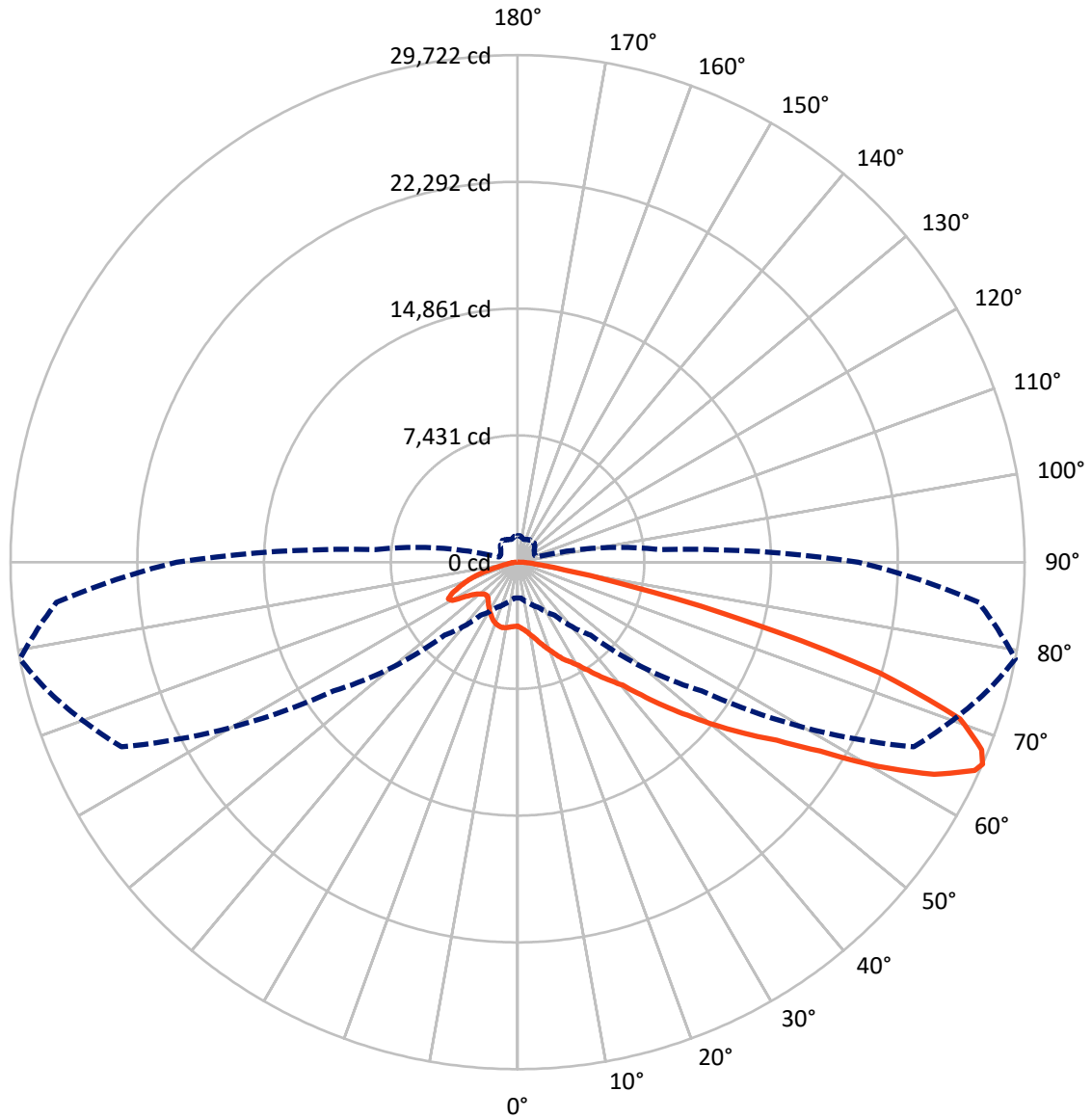
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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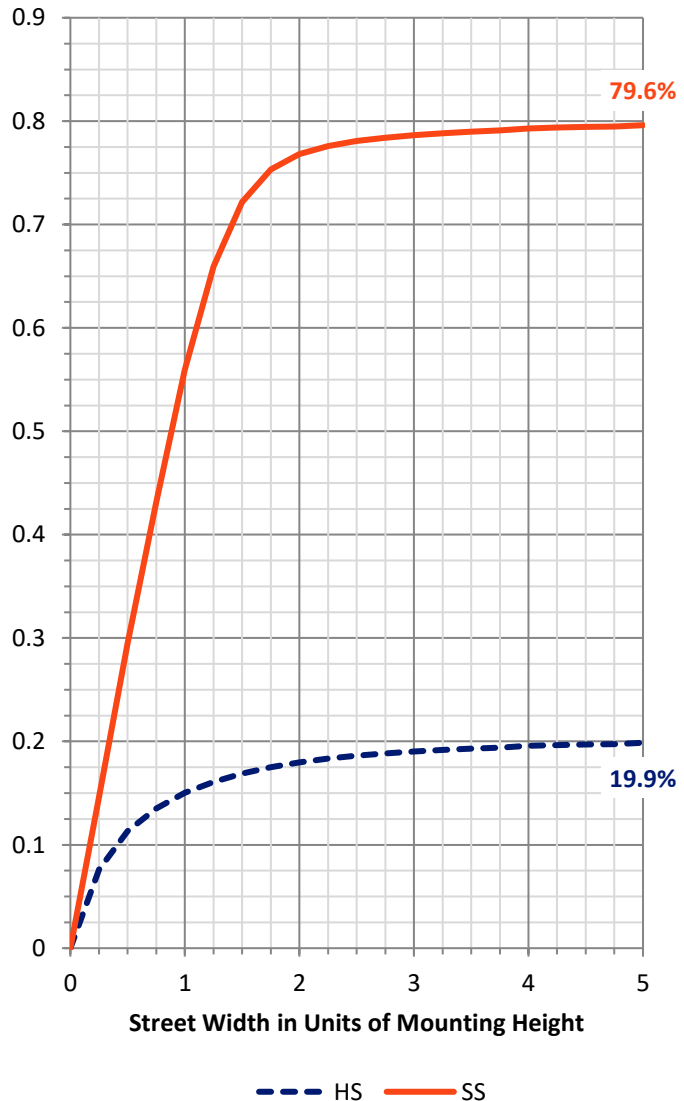
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6006.9	0.0	6006.9
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	23739.6	0.0	23739.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	29746.4	0.0	29746.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	369.3	1.2
10°-20°	1140.5	3.8
20°-30°	1957.7	6.6
30°-40°	3024.3	10.2
40°-50°	4844.1	16.3
50°-60°	7232.6	24.3
60°-70°	7431.5	25.0
70°-80°	3294.3	11.1
80°-90°	452.0	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°	29746.4	100.0
0°-180°	29746.4	100.0

**Coefficient of Utilization**



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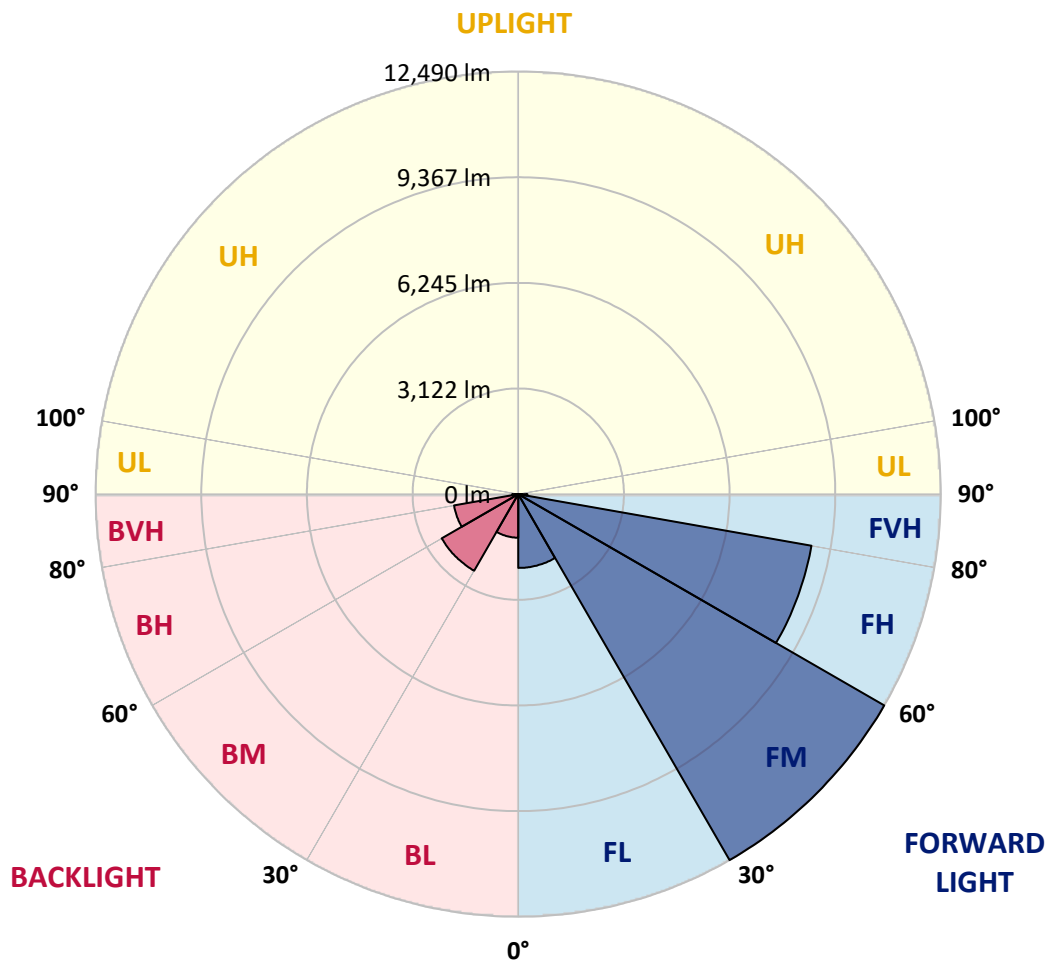
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2180.6	7.3			
FM (30°-60°)	12489.5	42.0			
FH (60°-80°)	8798.3	29.6			G4/12000
FVH (80°-90°)	271.1	0.9			G3/500
BL (0°-30°)	1287.0	4.3	B3/2500		
BM (30°-60°)	2611.5	8.8	B3/5000		
BH (60°-80°)	1927.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	180.9	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°	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2
2.5°	3995.0	3998.3	3998.3	3985.2	3988.5	3998.3	3962.3	3883.8	3883.8	3870.7	3847.8
5°	4240.4	4224.0	4201.1	4204.4	4191.3	4191.3	4152.1	4076.8	4011.4	3985.2	3916.5
7.5°	4273.1	4289.5	4286.2	4325.5	4345.1	4345.1	4364.7	4302.6	4204.4	4142.2	4073.5
10°	4338.5	4296.0	4292.7	4384.4	4413.8	4482.5	4561.0	4528.3	4446.5	4358.2	4266.6
12.5°	4377.8	4404.0	4404.0	4449.8	4518.5	4619.9	4757.4	4819.5	4691.9	4600.3	4459.6
15°	4436.7	4400.7	4505.4	4544.7	4675.6	4747.5	4943.9	5104.2	5019.1	4907.9	4685.4
17.5°	4462.9	4440.0	4498.9	4570.9	4793.3	4901.3	5140.2	5362.7	5290.7	5218.7	4989.7
20°	4597.0	4593.8	4619.9	4678.8	4839.2	5051.8	5349.6	5657.1	5683.3	5552.4	5241.6
22.5°	4924.2	4881.7	4881.7	4858.8	4927.5	5146.7	5549.2	5974.5	6092.3	5938.5	5526.3
25°	5225.2	5284.1	5248.1	5143.4	5117.3	5231.8	5693.1	6311.5	6468.6	6324.6	5912.3
27.5°	5611.3	5631.0	5693.1	5552.4	5372.5	5408.5	5850.2	6501.3	6825.2	6632.2	6131.6
30°	6167.5	6131.6	6118.5	5961.4	5725.8	5676.8	6030.1	6779.4	7293.1	7021.5	6390.0
32.5°	6543.8	6632.2	6628.9	6412.9	6128.3	6020.3	6252.6	7041.1	7793.7	7541.7	6867.7
35°	7289.8	7381.4	7309.4	6992.1	6658.3	6442.4	6573.3	7381.4	8366.3	8170.0	7273.5
37.5°	8241.9	8457.9	8304.1	7718.4	7247.3	7011.7	7018.2	7751.1	8951.9	8791.6	7708.6
40°	8899.6	9190.8	8978.1	8428.4	7927.8	7705.3	7617.0	8189.6	9652.1	9482.0	8389.2
42.5°	9714.3	9956.4	9845.2	9302.0	8716.4	8526.6	8349.9	8922.5	10722.0	10643.5	9262.8
45°	10604.3	10718.8	10682.8	10339.2	9688.1	9622.7	9233.3	9887.7	11981.7	12014.4	10355.6
47.5°	11432.0	11494.2	11562.9	11314.3	10908.5	10964.2	10250.9	10921.6	13205.4	13421.4	11572.7
50°	11644.7	11857.4	12017.7	12184.6	12272.9	12649.2	11373.2	12191.1	14612.3	15031.1	12927.3
52.5°	11428.8	11412.4	11899.9	12423.4	13306.8	14095.4	12901.1	13768.2	15855.7	16683.5	14167.4
55°	10447.2	10414.5	11199.7	11893.4	13617.7	14900.3	15083.5	15868.8	17357.5	18433.9	15845.8
57.5°	8729.4	8526.6	9383.8	10522.5	12943.7	14988.6	17275.7	18986.9	19667.4	20894.4	18407.8
60°	5866.5	5781.5	6602.7	7960.6	10509.4	13735.5	18587.7	22890.3	22923.0	24303.7	22383.1
62.5°	3612.2	3628.5	4155.3	5172.9	7358.5	10888.9	18021.7	26008.4	26014.9	27399.0	25655.0
65°	2362.3	2372.1	2797.5	3360.2	4597.0	7384.7	14903.5	26253.8	28164.6	29450.4	27153.6
66°	2103.8	2107.1	2473.6	2931.6	3808.5	6043.2	13162.9	25615.8	28648.8	29722.0	27133.9
67.5°	1773.4	1815.9	2110.4	2463.7	2970.9	4341.8	10443.9	23770.4	28400.2	29342.5	26518.8
70°	1387.3	1410.2	1642.5	2002.4	2228.2	2512.8	6206.8	19376.2	25995.3	27523.3	24280.8
72.5°	1112.4	1132.1	1308.8	1626.1	1809.4	1655.6	3379.9	14059.4	20534.5	22163.9	19098.1
75°	939.0	942.3	1027.4	1279.3	1488.7	1243.3	1799.5	9023.9	13176.0	13935.1	11700.3
77.5°	759.1	772.2	831.1	975.0	1197.5	978.3	1073.2	5055.1	6615.8	6671.4	5408.5
80°	618.4	624.9	660.9	710.0	912.9	723.1	726.4	2467.0	2836.7	2771.3	2198.7
82.5°	487.5	494.1	536.6	526.8	670.7	517.0	451.5	1187.7	1305.5	1279.3	1011.0
85°	274.8	274.8	422.1	422.1	425.3	327.2	274.8	559.5	690.4	644.6	474.4
87.5°	88.3	91.6	127.6	134.1	212.7	147.2	134.1	209.4	327.2	287.9	170.1
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°	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2	3756.2
2.5°	3834.7	3782.3	3759.4	3684.2	3664.5	3615.5	3592.6	3563.1	3553.3	3510.8	3550.0
5°	3864.1	3847.8	3756.2	3661.3	3589.3	3556.6	3507.5	3442.0	3435.5	3376.6	3370.1
7.5°	3988.5	3932.8	3772.5	3671.1	3527.1	3445.3	3337.3	3304.6	3262.1	3242.5	3285.0
10°	4181.5	4040.8	3802.0	3546.7	3370.1	3271.9	3193.4	3170.5	3173.8	3160.7	3141.0
12.5°	4318.9	4184.8	3752.9	3442.0	3213.0	3118.1	3111.6	3134.5	3170.5	3154.1	3177.0
15°	4515.2	4263.3	3716.9	3268.6	3085.4	3059.2	3056.0	3124.7	3121.4	3121.4	3118.1
17.5°	4698.5	4341.8	3586.0	3118.1	2951.3	2970.9	2993.8	2990.5	3023.2	3036.3	3059.2
20°	4930.8	4433.4	3402.8	2967.6	2849.8	2843.3	2840.0	2843.3	2876.0	2895.6	2879.3
22.5°	5133.6	4453.1	3249.0	2823.7	2728.8	2702.6	2660.1	2702.6	2686.2	2692.8	2712.4
25°	5310.3	4456.3	3029.8	2715.7	2607.7	2548.8	2516.1	2512.8	2483.4	2480.1	2480.1
27.5°	5457.5	4345.1	2836.7	2565.2	2463.7	2408.1	2404.9	2368.9	2293.6	2244.5	2251.1
30°	5572.1	4260.0	2702.6	2434.3	2336.1	2326.3	2296.9	2215.1	2116.9	2054.8	2054.8
32.5°	5774.9	4089.9	2519.4	2300.2	2251.1	2238.0	2169.3	2097.3	2005.7	1946.8	1937.0
35°	5925.4	3932.8	2398.3	2185.6	2162.7	2136.6	2077.7	1999.1	1973.0	1959.9	1969.7
37.5°	6095.6	3756.2	2251.1	2087.5	2110.4	2061.3	1992.6	1956.6	2048.2	2025.3	2035.1
40°	6367.1	3631.8	2107.1	2028.6	2051.5	1995.9	1907.5	1894.4	2009.0	1927.2	1907.5
42.5°	6864.5	3628.5	2018.8	1940.2	1956.6	1914.1	1835.5	1829.0	1874.8	1776.6	1747.2
45°	7482.9	3743.1	1953.3	1874.8	1861.7	1855.2	1829.0	1799.5	1760.3	1632.7	1600.0
47.5°	8222.3	3929.6	1940.2	1776.6	1793.0	1848.6	1815.9	1740.7	1639.2	1557.4	1541.1
50°	9118.8	4315.6	1907.5	1704.7	1734.1	1822.5	1796.3	1691.6	1600.0	1547.6	1537.8
52.5°	10110.2	4803.2	1865.0	1593.4	1658.9	1799.5	1812.6	1714.5	1580.3	1534.5	1528.0
55°	11278.3	5523.0	1815.9	1472.4	1570.5	1776.6	1812.6	1649.0	1554.2	1554.2	1547.6
57.5°	13585.0	6818.7	1714.5	1361.1	1492.0	1734.1	1760.3	1652.3	1557.4	1557.4	1544.3
60°	16968.1	8840.7	1521.4	1276.0	1416.7	1675.2	1721.0	1603.2	1521.4	1541.1	1537.8
62.5°	19615.1	9455.8	1357.8	1194.2	1341.5	1567.2	1668.7	1550.9	1478.9	1550.9	1557.4
65°	20181.1	8834.2	1191.0	1105.9	1236.8	1462.5	1593.4	1475.6	1416.7	1557.4	1564.0
66°	19978.3	8349.9	1132.1	1079.7	1191.0	1410.2	1547.6	1449.5	1384.0	1550.9	1554.2
67.5°	19075.2	7623.5	1066.6	1024.1	1128.8	1334.9	1495.3	1413.5	1331.7	1531.3	1501.8
70°	17112.1	6465.3	955.4	925.9	1040.5	1210.6	1374.2	1321.9	1249.9	1410.2	1357.8
72.5°	13179.2	5166.3	837.6	840.9	939.0	1083.0	1253.1	1217.1	1155.0	1236.8	1204.1
75°	8026.0	3301.4	729.6	736.2	818.0	961.9	1138.6	1112.4	1037.2	1083.0	1066.6
77.5°	3556.6	1636.0	615.1	628.2	693.6	847.4	991.4	948.9	870.3	880.1	873.6
80°	1380.7	775.4	500.6	517.0	559.5	677.3	821.2	782.0	713.3	700.2	693.6
82.5°	664.2	431.9	386.1	392.6	409.0	539.9	706.7	657.7	566.0	507.1	507.1
85°	333.7	268.3	271.6	248.7	271.6	366.5	477.7	399.2	330.5	294.5	301.0
87.5°	134.1	134.1	134.1	114.5	121.1	173.4	222.5	150.5	137.4	81.8	81.8
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)