

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: P476506

Luminaire Tested: **IFLD-L-SA7C-727-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476506  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-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**

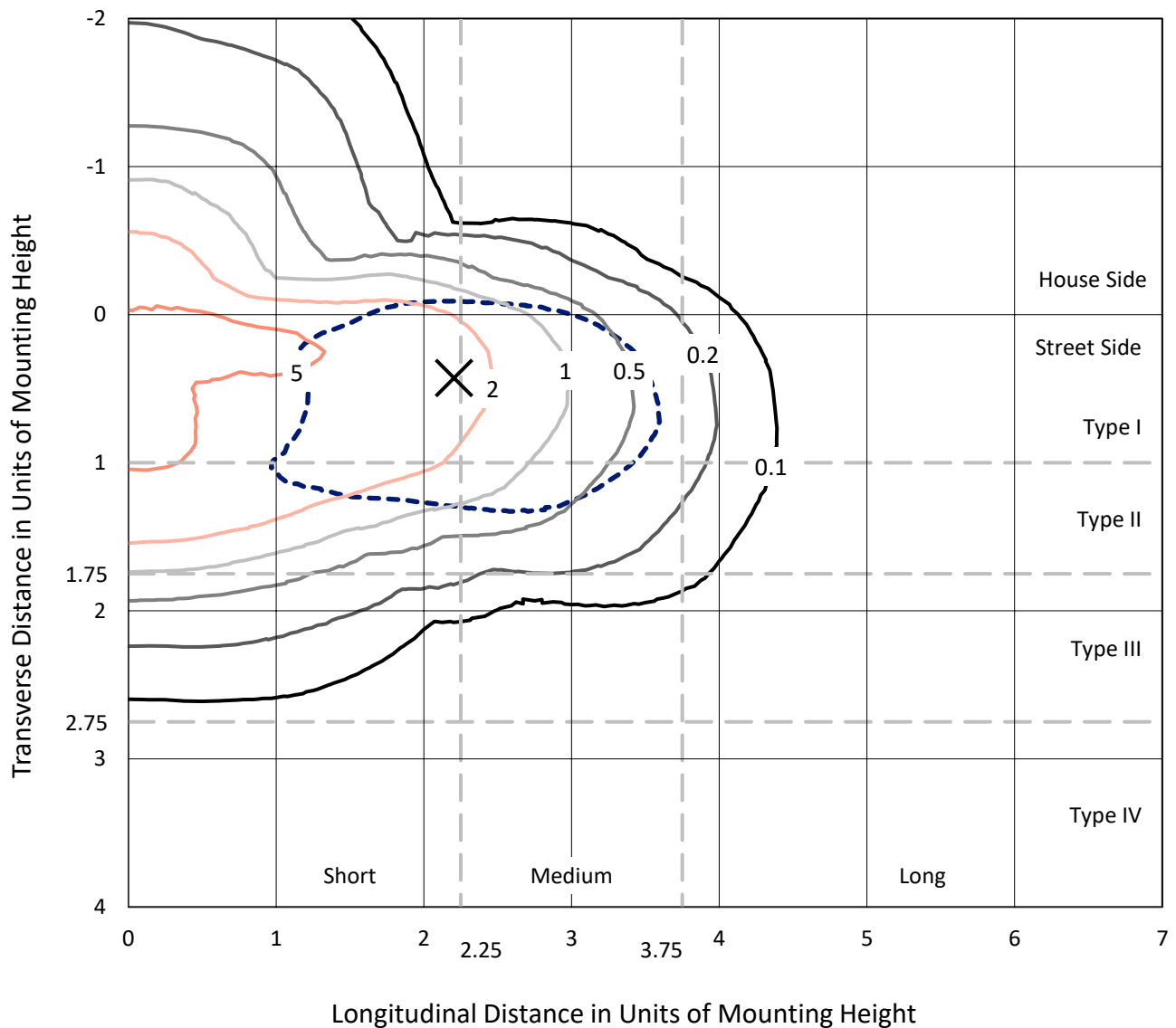
Lumens per Lamp: N/A  
Luminaire Lumens: 37029.1 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 369  
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

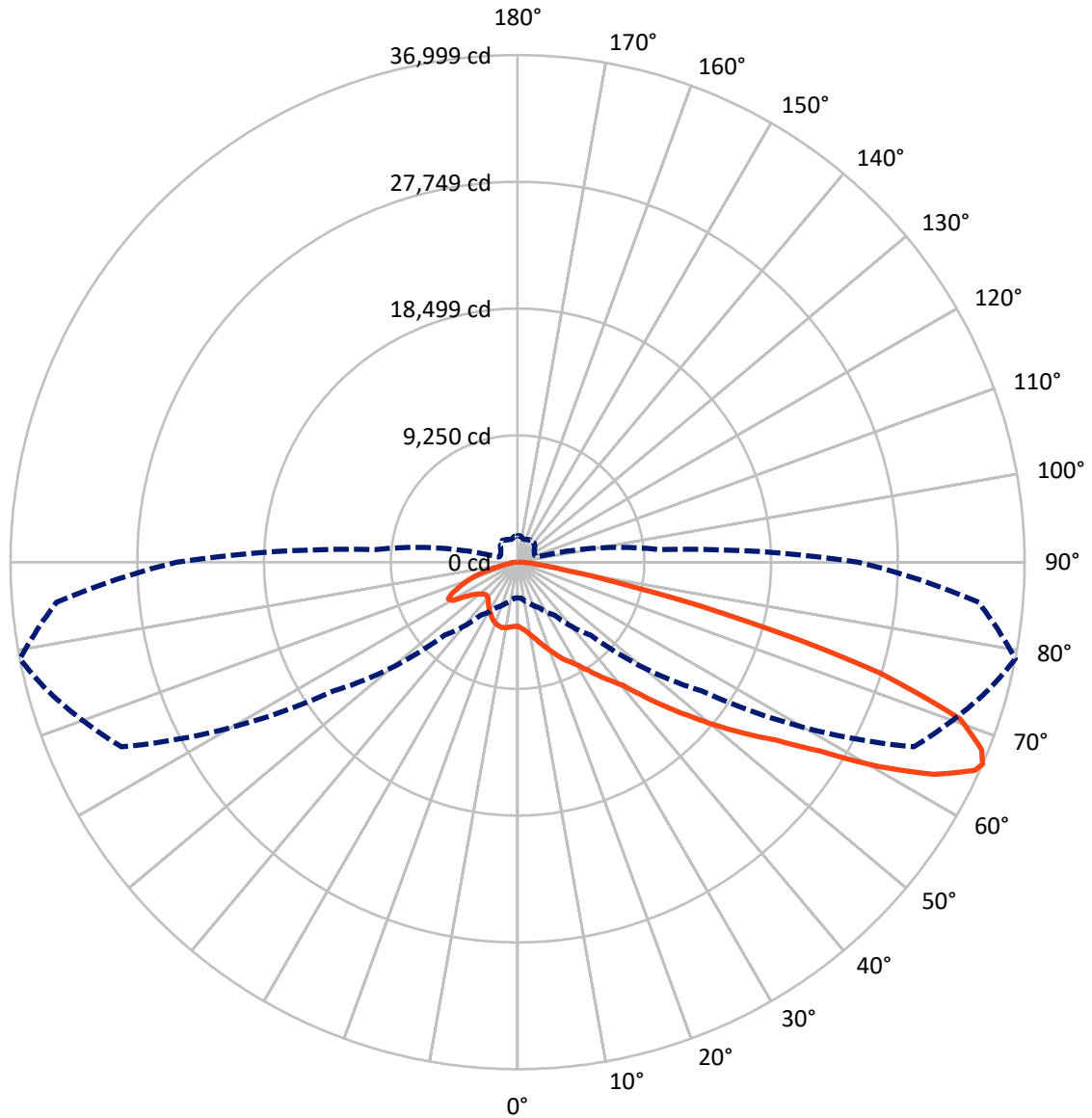
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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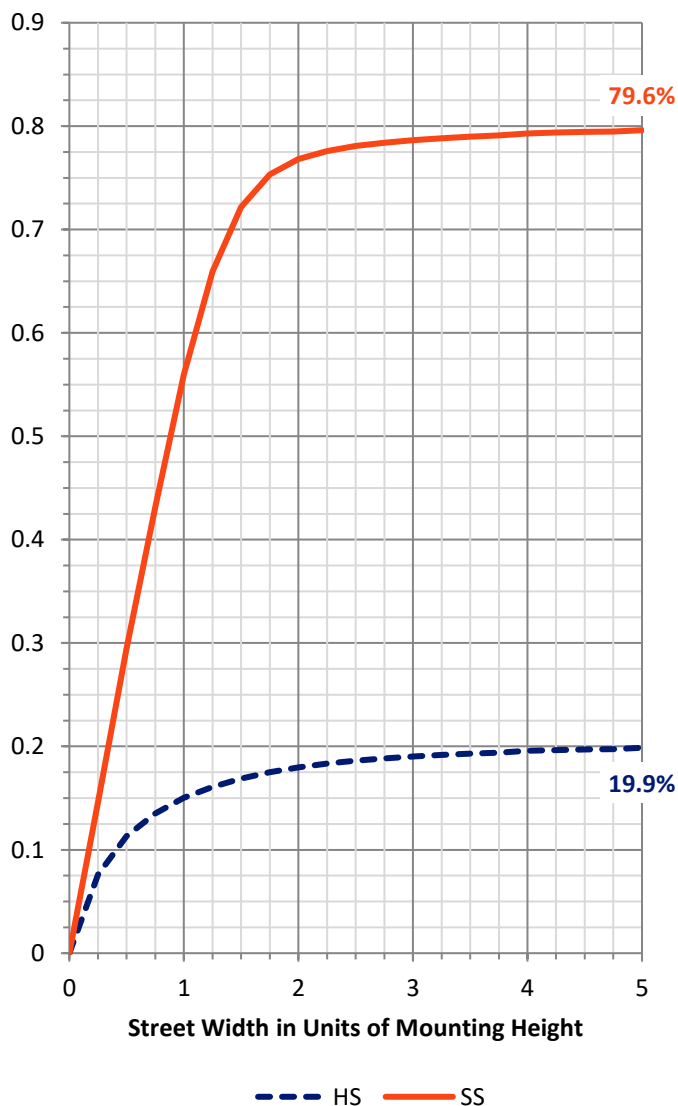
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7477.5	0.0	7477.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	29551.6	0.0	29551.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	37029.1	0.0	37029.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	459.8	1.2
10°-20°	1419.7	3.8
20°-30°	2437.0	6.6
30°-40°	3764.7	10.2
40°-50°	6030.1	16.3
50°-60°	9003.4	24.3
60°-70°	9251.0	25.0
70°-80°	4100.8	11.1
80°-90°	562.7	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°	37029.1	100.0
0°-180°	37029.1	100.0

**Coefficient of Utilization**



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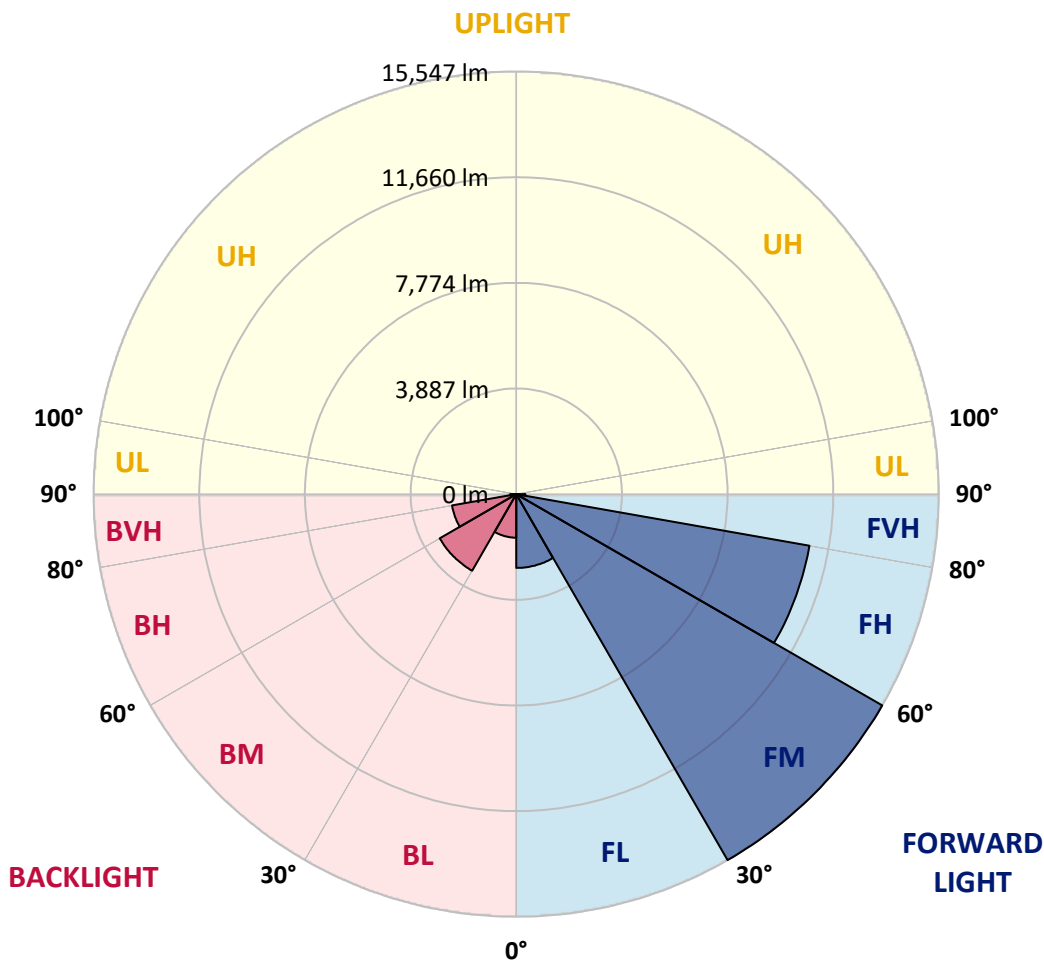
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.5	7.3			
FM (30°-60°)	15547.3	42.0			
FH (60°-80°)	10952.4	29.6			G4/12000
FVH (80°-90°)	337.5	0.9			G3/500
BL (0°-30°)	1602.0	4.3	B3/2500		
BM (30°-60°)	3250.9	8.8	B3/5000		
BH (60°-80°)	2399.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	225.2	0.6			G3/500
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°	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8
2.5°	4973.1	4977.2	4977.2	4960.9	4964.9	4977.2	4932.4	4834.6	4834.6	4818.3	4789.8
5°	5278.6	5258.2	5229.7	5233.7	5217.5	5217.5	5168.6	5074.9	4993.4	4960.9	4875.3
7.5°	5319.3	5339.6	5335.6	5384.4	5408.9	5408.9	5433.3	5355.9	5233.7	5156.4	5070.8
10°	5400.7	5347.8	5343.7	5457.8	5494.4	5580.0	5677.7	5637.0	5535.1	5425.2	5311.1
12.5°	5449.6	5482.2	5482.2	5539.2	5624.8	5751.0	5922.1	5999.5	5840.6	5726.6	5551.4
15°	5522.9	5478.1	5608.5	5657.3	5820.3	5909.9	6154.2	6353.8	6247.9	6109.4	5832.5
17.5°	5555.5	5527.0	5600.3	5689.9	5966.9	6101.3	6398.6	6675.6	6586.0	6496.4	6211.3
20°	5722.5	5718.4	5751.0	5824.3	6023.9	6288.6	6659.3	7042.1	7074.7	6911.8	6524.9
22.5°	6129.8	6076.9	6076.9	6048.3	6133.9	6406.8	6907.7	7437.2	7583.8	7392.4	6879.2
25°	6504.5	6577.8	6533.0	6402.7	6370.1	6512.7	7086.9	7856.7	8052.2	7873.0	7359.8
27.5°	6985.1	7009.6	7086.9	6911.8	6687.8	6732.6	7282.4	8093.0	8496.2	8255.9	7632.7
30°	7677.5	7632.7	7616.4	7420.9	7127.7	7066.6	7506.5	8439.2	9078.6	8740.6	7954.5
32.5°	8145.9	8255.9	8251.8	7983.0	7628.6	7494.2	7783.4	8765.0	9701.8	9388.2	8549.1
35°	9074.5	9188.6	9099.0	8703.9	8288.5	8019.7	8182.6	9188.6	10414.6	10170.2	9054.2
37.5°	10259.8	10528.6	10337.2	9608.1	9021.6	8728.3	8736.5	9648.8	11143.6	10944.0	9595.9
40°	11078.4	11440.9	11176.2	10491.9	9868.8	9591.8	9481.8	10194.6	12015.2	11803.4	10443.1
42.5°	12092.6	12394.0	12255.5	11579.4	10850.4	10614.1	10394.2	11107.0	13347.1	13249.3	11530.5
45°	13200.5	13343.0	13298.2	12870.5	12060.0	11978.6	11493.9	12308.5	14915.2	14955.9	12890.9
47.5°	14230.9	14308.3	14393.8	14084.3	13579.2	13648.5	12760.6	13595.5	16438.5	16707.3	14406.0
50°	14495.7	14760.4	14960.0	15167.7	15277.7	15746.1	14157.6	15175.8	18189.8	18711.2	16092.3
52.5°	14226.8	14206.5	14813.3	15465.0	16564.7	17546.3	16059.7	17139.0	19737.5	20768.0	17635.9
55°	13005.0	12964.2	13941.7	14805.2	16951.6	18548.2	18776.3	19753.8	21607.0	22947.0	19725.3
57.5°	10866.6	10614.1	11681.2	13098.6	16112.6	18658.2	21505.2	23635.4	24482.5	26009.9	22914.5
60°	7302.8	7196.9	8219.2	9909.5	13082.3	17098.3	23138.5	28494.4	28535.1	30253.9	27863.1
62.5°	4496.5	4516.9	5172.7	6439.3	9160.1	13554.8	22433.8	32375.9	32384.1	34106.9	31936.1
65°	2940.7	2952.9	3482.4	4182.9	5722.5	9192.7	18552.3	32681.4	35060.0	36660.7	33801.5
66°	2618.9	2623.0	3079.2	3649.4	4740.9	7522.8	16385.5	31887.2	35662.8	36998.7	33777.0
67.5°	2207.5	2260.5	2627.1	3066.9	3698.2	5404.8	13000.9	29590.0	35353.3	36526.3	33011.3
70°	1726.9	1755.4	2044.6	2492.6	2773.7	3128.0	7726.4	24120.1	32359.6	34261.7	30225.4
72.5°	1384.8	1409.2	1629.2	2024.3	2252.3	2060.9	4207.4	17501.5	25561.9	27590.2	23773.9
75°	1168.9	1173.0	1278.9	1592.5	1853.2	1547.7	2240.1	11233.2	16401.8	17346.7	14564.9
77.5°	944.9	961.2	1034.5	1213.7	1490.7	1217.8	1335.9	6292.7	8235.5	8304.8	6732.6
80°	769.8	777.9	822.7	883.8	1136.4	900.1	904.2	3071.0	3531.3	3449.8	2737.0
82.5°	606.9	615.0	668.0	655.7	835.0	643.5	562.1	1478.5	1625.1	1592.5	1258.5
85°	342.1	342.1	525.4	525.4	529.5	407.3	342.1	696.5	859.4	802.4	590.6
87.5°	110.0	114.0	158.8	167.0	264.7	183.3	167.0	260.7	407.3	358.4	211.8
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°	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8	4675.8
2.5°	4773.5	4708.3	4679.8	4586.1	4561.7	4500.6	4472.1	4435.5	4423.2	4370.3	4419.2
5°	4810.2	4789.8	4675.8	4557.6	4468.0	4427.3	4366.2	4284.8	4276.6	4203.3	4195.1
7.5°	4964.9	4895.7	4696.1	4569.9	4390.6	4288.8	4154.4	4113.7	4060.7	4036.3	4089.2
10°	5205.2	5030.1	4732.8	4415.1	4195.1	4073.0	3975.2	3946.7	3950.8	3934.5	3910.0
12.5°	5376.3	5209.3	4671.7	4284.8	3999.6	3881.5	3873.4	3901.9	3946.7	3926.3	3954.8
15°	5620.7	5307.1	4626.9	4068.9	3840.8	3808.2	3804.1	3889.7	3885.6	3885.6	3881.5
17.5°	5848.8	5404.8	4464.0	3881.5	3673.8	3698.2	3726.8	3722.7	3763.4	3779.7	3808.2
20°	6137.9	5518.9	4235.9	3694.2	3547.5	3539.4	3535.3	3539.4	3580.1	3604.6	3584.2
22.5°	6390.5	5543.3	4044.4	3515.0	3396.8	3364.3	3311.3	3364.3	3343.9	3352.0	3376.5
25°	6610.4	5547.4	3771.6	3380.6	3246.1	3172.8	3132.1	3128.0	3091.4	3087.3	3087.3
27.5°	6793.7	5408.9	3531.3	3193.2	3066.9	2997.7	2993.6	2948.8	2855.1	2794.0	2802.2
30°	6936.2	5303.0	3364.3	3030.3	2908.1	2895.9	2859.2	2757.4	2635.2	2557.8	2557.8
32.5°	7188.8	5091.2	3136.2	2863.3	2802.2	2785.9	2700.4	2610.8	2496.7	2423.4	2411.2
35°	7376.1	4895.7	2985.5	2720.7	2692.2	2659.6	2586.3	2488.6	2456.0	2439.7	2451.9
37.5°	7587.9	4675.8	2802.2	2598.5	2627.1	2566.0	2480.4	2435.6	2549.7	2521.2	2533.4
40°	7926.0	4521.0	2623.0	2525.2	2553.7	2484.5	2374.5	2358.2	2500.8	2399.0	2374.5
42.5°	8545.1	4516.9	2513.0	2415.3	2435.6	2382.7	2284.9	2276.8	2333.8	2211.6	2175.0
45°	9314.9	4659.5	2431.6	2333.8	2317.5	2309.4	2276.8	2240.1	2191.3	2032.4	1991.7
47.5°	10235.3	4891.6	2415.3	2211.6	2232.0	2301.2	2260.5	2166.8	2040.6	1938.7	1918.4
50°	11351.3	5372.2	2374.5	2122.0	2158.7	2268.6	2236.1	2105.7	1991.7	1926.5	1914.3
52.5°	12585.4	5979.1	2321.6	1983.5	2065.0	2240.1	2256.4	2134.2	1967.2	1910.2	1902.1
55°	14039.5	6875.2	2260.5	1832.8	1955.0	2211.6	2256.4	2052.8	1934.7	1934.7	1926.5
57.5°	16910.9	8488.0	2134.2	1694.4	1857.3	2158.7	2191.3	2056.8	1938.7	1938.7	1922.4
60°	21122.4	11005.1	1893.9	1588.5	1763.6	2085.4	2142.4	1995.7	1893.9	1918.4	1914.3
62.5°	24417.4	11770.8	1690.3	1486.6	1669.9	1950.9	2077.2	1930.6	1841.0	1930.6	1938.7
65°	25122.0	10997.0	1482.6	1376.7	1539.6	1820.6	1983.5	1836.9	1763.6	1938.7	1946.9
66°	24869.5	10394.2	1409.2	1344.1	1482.6	1755.4	1926.5	1804.3	1722.9	1930.6	1934.7
67.5°	23745.3	9490.0	1327.8	1274.8	1405.2	1661.8	1861.3	1759.5	1657.7	1906.1	1869.5
70°	21301.6	8048.2	1189.3	1152.6	1295.2	1507.0	1710.6	1645.5	1555.9	1755.4	1690.3
72.5°	16405.9	6431.2	1042.7	1046.7	1168.9	1348.1	1559.9	1515.1	1437.8	1539.6	1498.8
75°	9991.0	4109.6	908.3	916.4	1018.2	1197.4	1417.4	1384.8	1291.1	1348.1	1327.8
77.5°	4427.3	2036.5	765.7	782.0	863.5	1054.9	1234.1	1181.2	1083.4	1095.6	1087.5
80°	1718.8	965.3	623.2	643.5	696.5	843.1	1022.3	973.4	887.9	871.6	863.5
82.5°	826.8	537.6	480.6	488.8	509.1	672.0	879.8	818.7	704.6	631.3	631.3
85°	415.4	334.0	338.1	309.5	338.1	456.2	594.7	496.9	411.4	366.6	374.7
87.5°	167.0	167.0	167.0	142.6	150.7	215.9	277.0	187.4	171.1	101.8	101.8
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)