

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: P476741

Luminaire Tested: **IFLD-L-SA7D-827-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476741  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

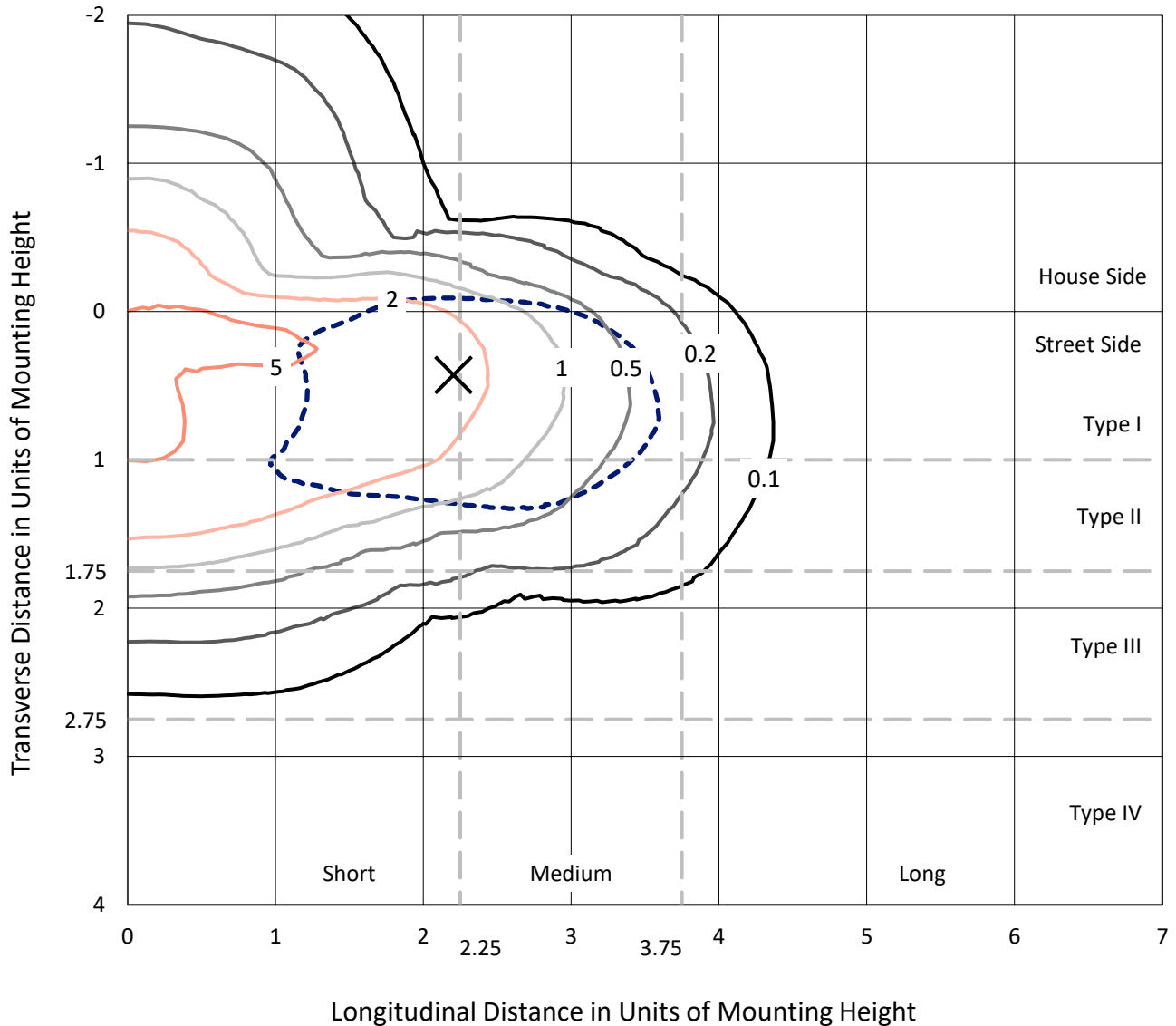
Lumens per Lamp: N/A  
Luminaire Lumens: 35814.2 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 422.6  
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

REPORT NUMBER: P476741  
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

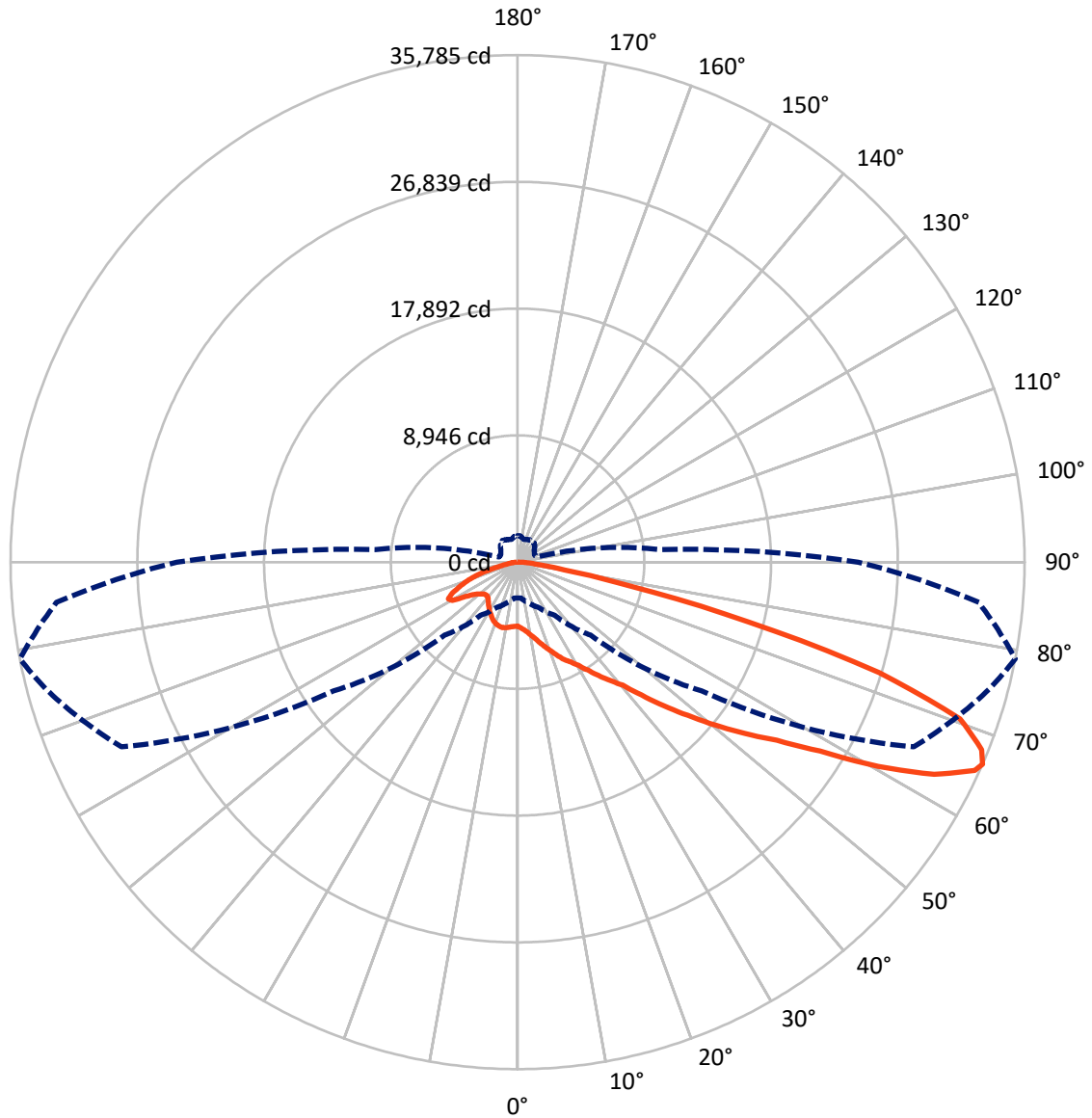
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P476741  
CATALOG NUMBER: IFLD-L-SA7D-827-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P476741

CATALOG NUMBER: IFLD-L-SA7D-827-U-T2

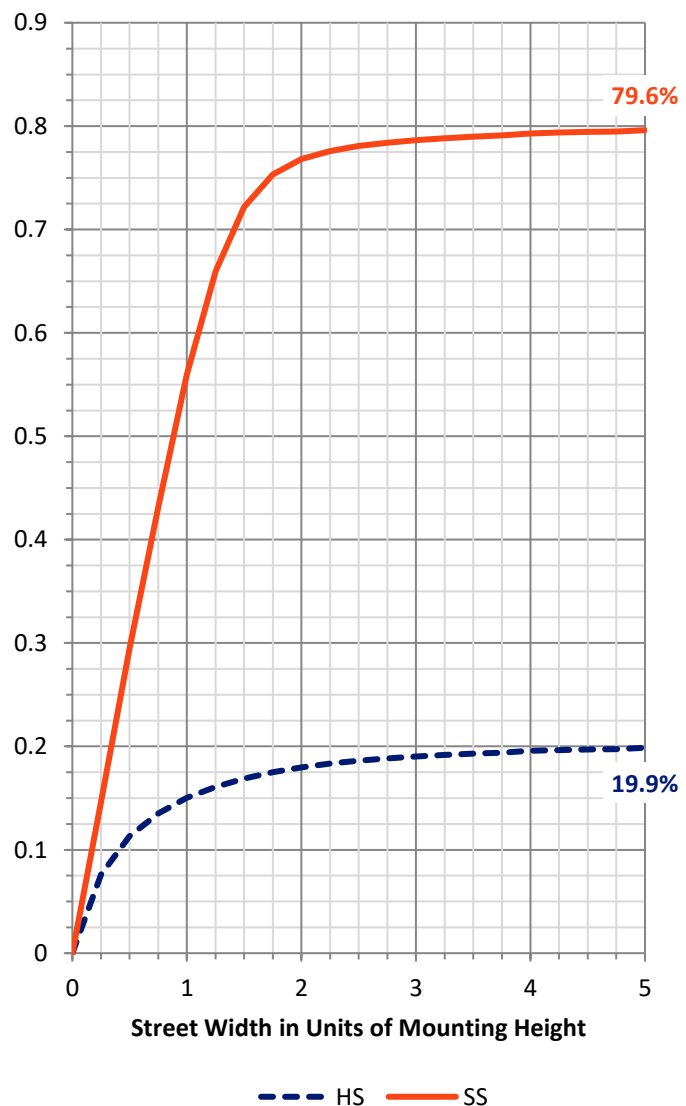
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7232.2	0.0	7232.2
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	28582.0	0.0	28582.0
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	35814.2	0.0	35814.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.7	1.2
10°-20°	1373.2	3.8
20°-30°	2357.1	6.6
30°-40°	3641.2	10.2
40°-50°	5832.3	16.3
50°-60°	8708.0	24.3
60°-70°	8947.4	25.0
70°-80°	3966.3	11.1
80°-90°	544.2	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°	35814.2	100.0
0°-180°	35814.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476741

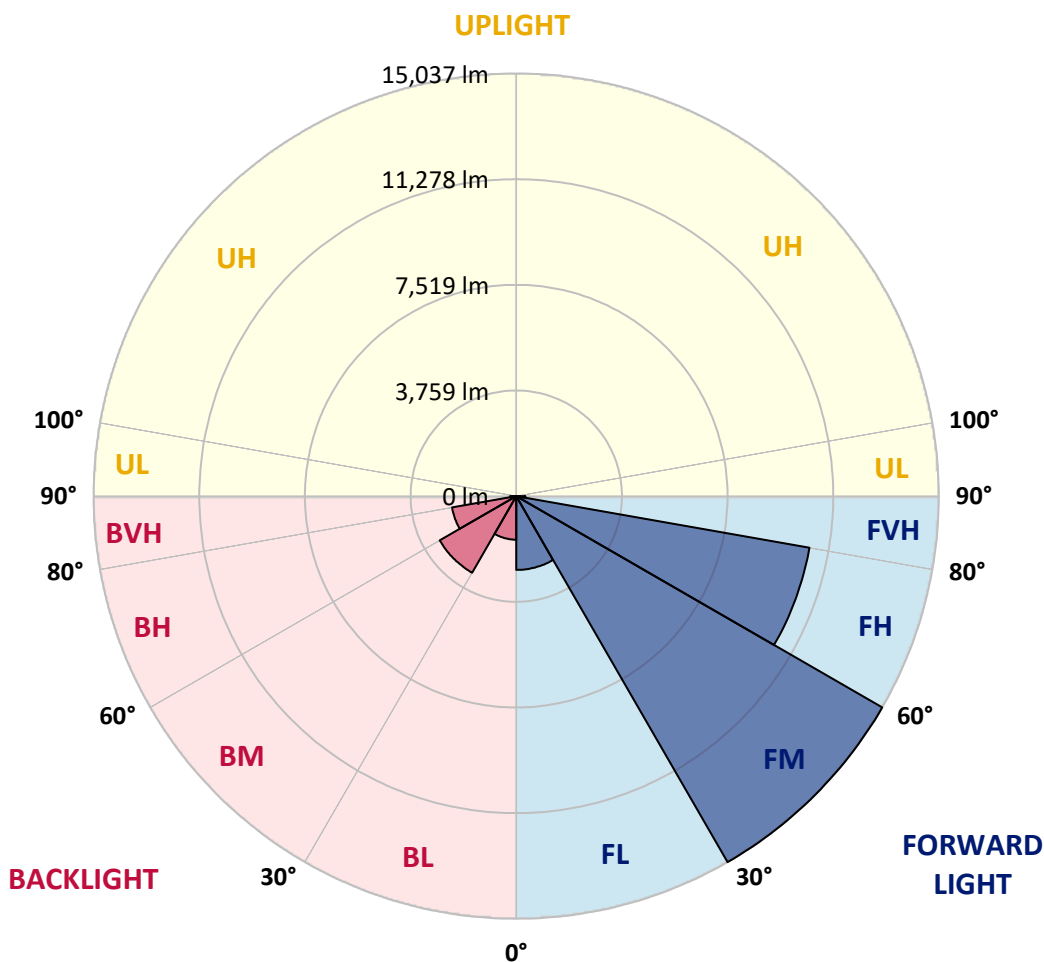
CATALOG NUMBER: IFLD-L-SA7D-827-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.4	7.3			
FM (30°-60°)	15037.2	42.0			
FH (60°-80°)	10593.0	29.6			G4/12000
FVH (80°-90°)	326.4	0.9			G3/500
BL (0°-30°)	1549.5	4.3	B3/2500		
BM (30°-60°)	3144.2	8.8	B3/5000		
BH (60°-80°)	2320.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	217.8	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





REPORT NUMBER: P476741

CATALOG NUMBER: IFLD-L-SA7D-827-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3
2.5°	4809.9	4813.9	4813.9	4798.1	4802.0	4813.9	4770.5	4676.0	4676.0	4660.2	4632.6
5°	5105.4	5085.7	5058.1	5062.0	5046.3	5046.3	4999.0	4908.4	4829.6	4798.1	4715.4
7.5°	5144.8	5164.5	5160.5	5207.8	5231.4	5231.4	5255.1	5180.2	5062.0	4987.2	4904.5
10°	5223.5	5172.3	5168.4	5278.7	5314.1	5396.9	5491.4	5452.0	5353.5	5247.2	5136.9
12.5°	5270.8	5302.3	5302.3	5357.5	5440.2	5562.3	5727.8	5802.6	5649.0	5538.7	5369.3
15°	5341.7	5298.4	5424.4	5471.7	5629.3	5716.0	5952.3	6145.3	6042.9	5909.0	5641.1
17.5°	5373.2	5345.7	5416.6	5503.2	5771.1	5901.1	6188.7	6456.6	6369.9	6283.2	6007.5
20°	5534.7	5530.8	5562.3	5633.2	5826.3	6082.3	6440.8	6811.1	6842.6	6685.0	6310.8
22.5°	5928.7	5877.5	5877.5	5849.9	5932.6	6196.6	6681.1	7193.2	7335.0	7149.9	6653.5
25°	6291.1	6362.0	6318.7	6192.6	6161.1	6299.0	6854.4	7599.0	7788.0	7614.7	7118.4
27.5°	6755.9	6779.6	6854.4	6685.0	6468.4	6511.7	7043.5	7827.4	8217.4	7985.0	7382.3
30°	7425.6	7382.3	7366.5	7177.4	6893.8	6834.7	7260.2	8162.3	8780.8	8453.8	7693.5
32.5°	7878.6	7985.0	7981.1	7721.1	7378.4	7248.4	7528.0	8477.4	9383.5	9080.1	8268.6
35°	8776.8	8887.1	8800.4	8418.3	8016.5	7756.5	7914.1	8887.1	10072.8	9836.5	8757.1
37.5°	9923.2	10183.1	9998.0	9292.9	8725.6	8442.0	8449.8	9332.3	10778.0	10585.0	9281.0
40°	10715.0	11065.6	10809.5	10147.7	9545.0	9277.1	9170.7	9860.1	11621.0	11416.2	10100.4
42.5°	11695.8	11987.4	11853.4	11199.5	10494.4	10265.9	10053.2	10742.5	12909.2	12814.6	11152.2
45°	12767.3	12905.2	12861.9	12448.3	11664.3	11585.5	11116.8	11904.6	14425.8	14465.2	12468.0
47.5°	13764.0	13838.8	13921.6	13622.2	13133.7	13200.7	12341.9	13149.5	15899.1	16159.1	13933.4
50°	14020.0	14276.1	14469.1	14670.0	14776.4	15229.4	13693.1	14677.9	17593.0	18097.2	15564.3
52.5°	13760.1	13740.4	14327.3	14957.6	16021.2	16970.6	15532.7	16576.7	19090.0	20086.6	17057.3
55°	12578.3	12538.9	13484.3	14319.4	16395.5	17939.7	18160.3	19105.7	20898.1	22194.1	19078.1
57.5°	10510.1	10265.9	11298.0	12668.9	15584.0	18046.0	20799.6	22859.9	23679.3	25156.5	22162.6
60°	7063.2	6960.8	7949.6	9584.4	12653.1	16537.3	22379.3	27559.5	27598.9	29261.3	26948.9
62.5°	4349.0	4368.7	5002.9	6228.1	8859.5	13110.1	21697.8	31313.7	31321.6	32987.9	30888.2
65°	2844.2	2856.0	3368.1	4045.7	5534.7	8891.1	17943.6	31609.1	33909.7	35457.8	32692.4
66°	2533.0	2536.9	2978.1	3529.6	4585.4	7275.9	15847.9	30841.0	34492.7	35784.8	32668.8
67.5°	2135.1	2186.3	2540.9	2966.3	3576.9	5227.5	12574.3	28619.2	34193.3	35327.8	31928.2
70°	1670.3	1697.8	1977.5	2410.9	2682.7	3025.4	7472.9	23328.7	31297.9	33137.6	29233.7
72.5°	1339.4	1363.0	1575.7	1957.8	2178.4	1993.3	4069.3	16927.3	24723.2	26685.0	22993.8
75°	1130.6	1134.5	1236.9	1540.3	1792.4	1496.9	2166.6	10864.7	15863.7	16777.6	14087.0
77.5°	913.9	929.7	1000.6	1173.9	1441.8	1177.9	1292.1	6086.3	7965.3	8032.3	6511.7
80°	744.5	752.4	795.7	854.8	1099.1	870.6	874.5	2970.2	3415.4	3336.6	2647.2
82.5°	587.0	594.8	646.0	634.2	807.6	622.4	543.6	1430.0	1571.8	1540.3	1217.3
85°	330.9	330.9	508.2	508.2	512.1	393.9	330.9	673.6	831.2	776.0	571.2
87.5°	106.4	110.3	153.6	161.5	256.1	177.3	161.5	252.1	393.9	346.7	204.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476741  
 CATALOG NUMBER: IFLD-L-SA7D-827-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3	4522.3
2.5°	4616.9	4553.9	4526.3	4435.7	4412.0	4353.0	4325.4	4289.9	4278.1	4226.9	4274.2
5°	4652.3	4632.6	4522.3	4408.1	4321.4	4282.0	4223.0	4144.2	4136.3	4065.4	4057.5
7.5°	4802.0	4735.1	4542.0	4419.9	4246.6	4148.1	4018.1	3978.7	3927.5	3903.9	3955.1
10°	5034.5	4865.1	4577.5	4270.2	4057.5	3939.3	3844.8	3817.2	3821.1	3805.4	3781.7
12.5°	5199.9	5038.4	4518.4	4144.2	3868.4	3754.2	3746.3	3773.9	3817.2	3797.5	3825.1
15°	5436.3	5132.9	4475.1	3935.4	3714.8	3683.3	3679.3	3762.1	3758.1	3758.1	3754.2
17.5°	5656.9	5227.5	4317.5	3754.2	3553.3	3576.9	3604.5	3600.5	3639.9	3655.7	3683.3
20°	5936.6	5337.8	4096.9	3573.0	3431.2	3423.3	3419.3	3423.3	3462.7	3486.3	3466.6
22.5°	6180.8	5361.4	3911.7	3399.6	3285.4	3253.9	3202.7	3253.9	3234.2	3242.1	3265.7
25°	6393.5	5365.4	3647.8	3269.6	3139.6	3068.7	3029.3	3025.4	2989.9	2986.0	2986.0
27.5°	6570.8	5231.4	3415.4	3088.4	2966.3	2899.3	2895.4	2852.1	2761.5	2702.4	2710.3
30°	6708.7	5129.0	3253.9	2930.9	2812.7	2800.9	2765.4	2666.9	2548.7	2473.9	2473.9
32.5°	6952.9	4924.2	3033.3	2769.3	2710.3	2694.5	2611.8	2525.1	2414.8	2343.9	2332.1
35°	7134.1	4735.1	2887.5	2631.5	2603.9	2572.4	2501.5	2406.9	2375.4	2359.7	2371.5
37.5°	7339.0	4522.3	2710.3	2513.3	2540.9	2481.8	2399.0	2355.7	2466.0	2438.4	2450.3
40°	7665.9	4372.6	2536.9	2442.4	2470.0	2403.0	2296.6	2280.9	2418.7	2320.3	2296.6
42.5°	8264.7	4368.7	2430.6	2336.0	2355.7	2304.5	2210.0	2202.1	2257.2	2139.1	2103.6
45°	9009.2	4506.6	2351.8	2257.2	2241.5	2233.6	2202.1	2166.6	2119.4	1965.7	1926.3
47.5°	9899.5	4731.1	2336.0	2139.1	2158.7	2225.7	2186.3	2095.7	1973.6	1875.1	1855.4
50°	10978.9	5196.0	2296.6	2052.4	2087.8	2194.2	2162.7	2036.6	1926.3	1863.3	1851.5
52.5°	12172.5	5782.9	2245.4	1918.5	1997.2	2166.6	2182.4	2064.2	1902.7	1847.5	1839.7
55°	13578.8	6649.6	2186.3	1772.7	1890.9	2139.1	2182.4	1985.4	1871.2	1871.2	1863.3
57.5°	16356.1	8209.5	2064.2	1638.8	1796.3	2087.8	2119.4	1989.4	1875.1	1875.1	1859.4
60°	20429.3	10644.1	1831.8	1536.3	1705.7	2016.9	2072.1	1930.3	1831.8	1855.4	1851.5
62.5°	23616.2	11384.6	1634.8	1437.9	1615.1	1886.9	2009.1	1867.2	1780.6	1867.2	1875.1
65°	24297.7	10636.2	1433.9	1331.5	1489.1	1760.9	1918.5	1776.6	1705.7	1875.1	1883.0
66°	24053.5	10053.2	1363.0	1300.0	1433.9	1697.8	1863.3	1745.1	1666.3	1867.2	1871.2
67.5°	22966.3	9178.6	1284.2	1233.0	1359.1	1607.2	1800.3	1701.8	1603.3	1843.6	1808.1
70°	20602.7	7784.1	1150.3	1114.8	1252.7	1457.5	1654.5	1591.5	1504.8	1697.8	1634.8
72.5°	15867.6	6220.2	1008.5	1012.4	1130.6	1303.9	1508.8	1465.4	1390.6	1489.1	1449.7
75°	9663.2	3974.8	878.5	886.3	984.8	1158.2	1370.9	1339.4	1248.8	1303.9	1284.2
77.5°	4282.0	1969.7	740.6	756.3	835.1	1020.3	1193.6	1142.4	1047.9	1059.7	1051.8
80°	1662.4	933.6	602.7	622.4	673.6	815.4	988.8	941.5	858.8	843.0	835.1
82.5°	799.7	520.0	464.8	472.7	492.4	650.0	850.9	791.8	681.5	610.6	610.6
85°	401.8	323.0	327.0	299.4	327.0	441.2	575.1	480.6	397.9	354.5	362.4
87.5°	161.5	161.5	161.5	137.9	145.8	208.8	267.9	181.2	165.5	98.5	98.5
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)