

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: P476544

Luminaire Tested: **IFLD-L-SA7B-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476544  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

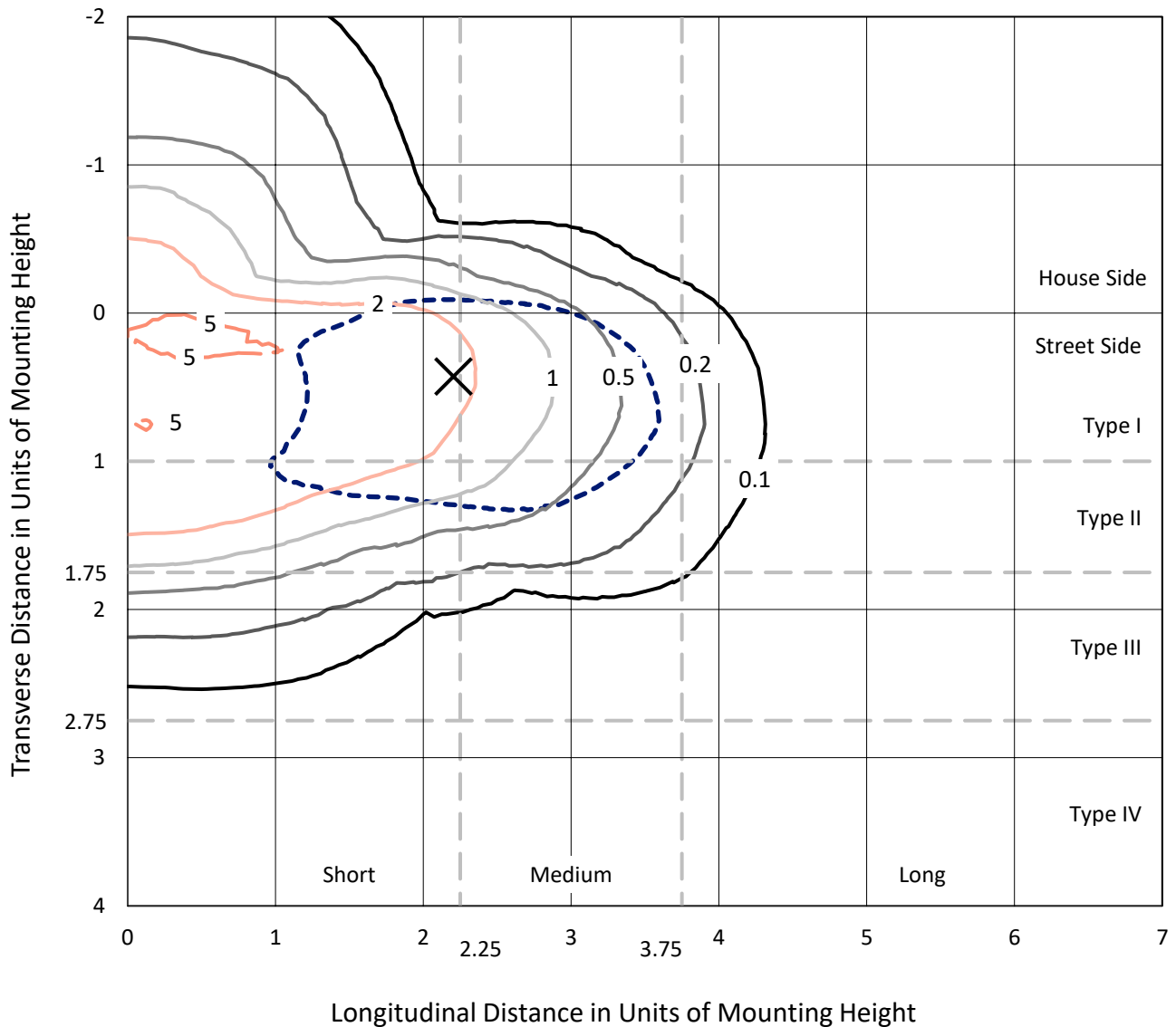
Lumens per Lamp: N/A  
Luminaire Lumens: 32389.2 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 281  
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: P476544  
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

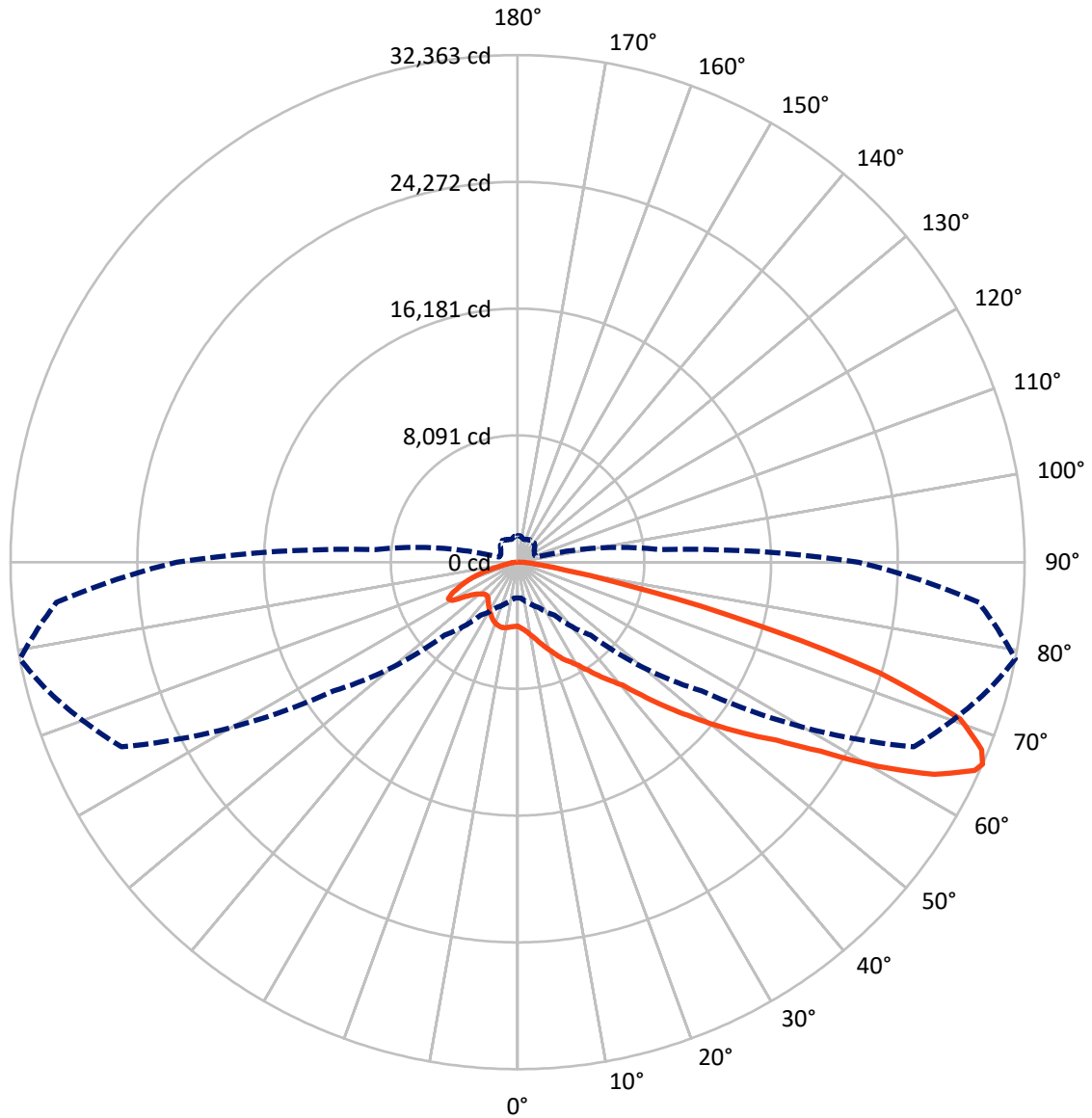
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P476544  
CATALOG NUMBER: IFLD-L-SA7B-730-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P476544

CATALOG NUMBER: IFLD-L-SA7B-730-U-T2

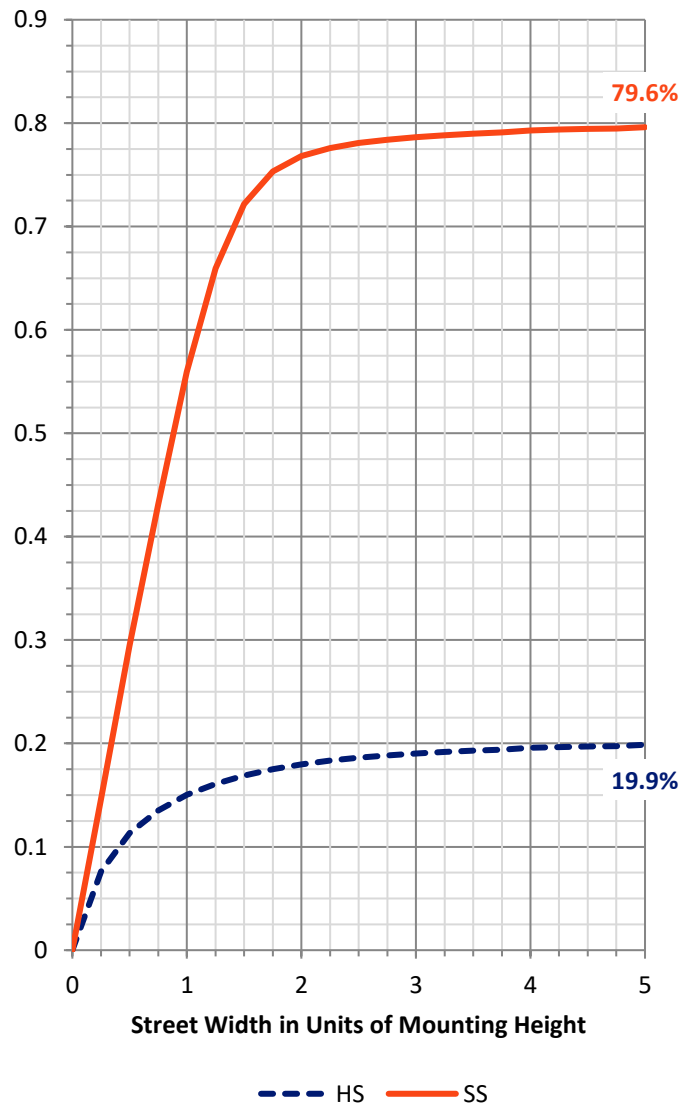
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6540.6	0.0	6540.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	25848.7	0.0	25848.7
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	32389.2	0.0	32389.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.2	1.2
10°-20°	1241.8	3.8
20°-30°	2131.7	6.6
30°-40°	3293.0	10.2
40°-50°	5274.5	16.3
50°-60°	7875.2	24.3
60°-70°	8091.8	25.0
70°-80°	3587.0	11.1
80°-90°	492.2	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°	32389.2	100.0
0°-180°	32389.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476544

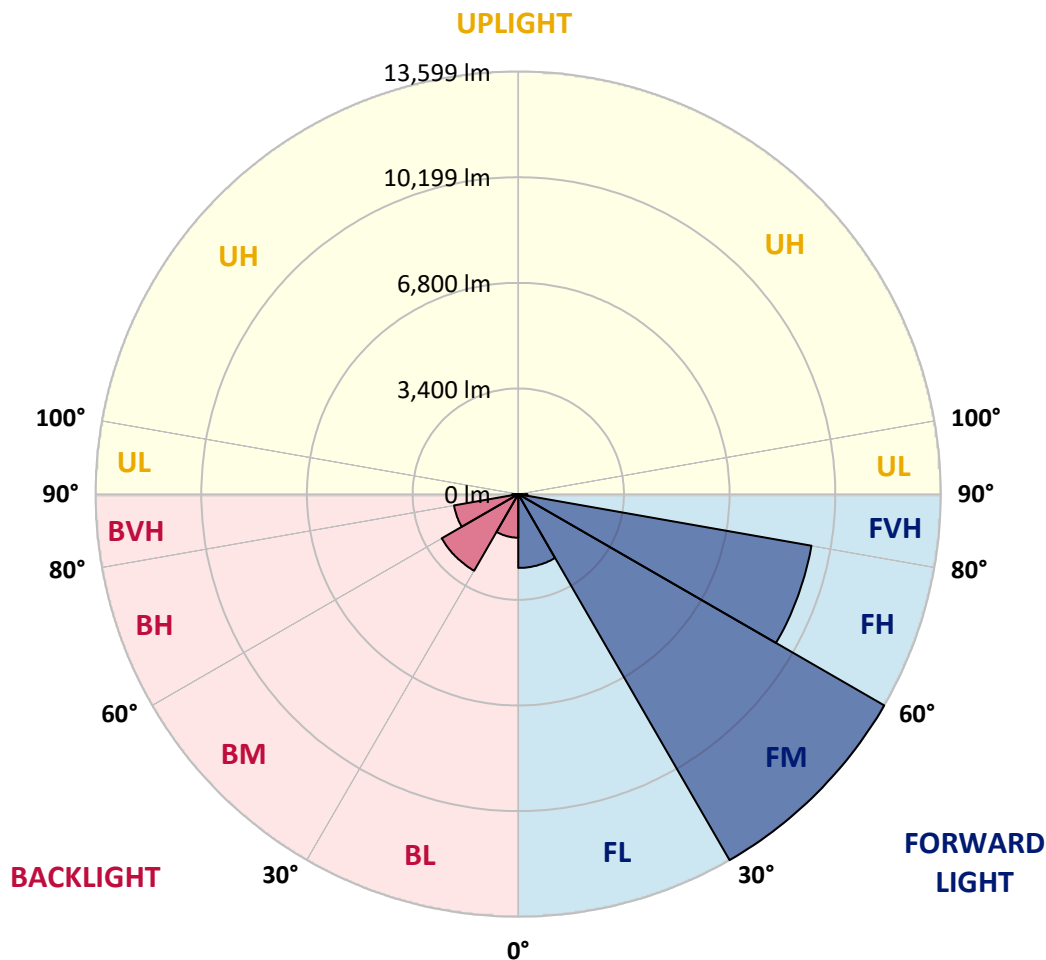
CATALOG NUMBER: IFLD-L-SA7B-730-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2374.3	7.3			
FM (30°-60°)	13599.1	42.0			
FH (60°-80°)	9580.0	29.6			G4/12000
FVH (80°-90°)	295.2	0.9			G3/500
BL (0°-30°)	1401.3	4.3	B3/2500		
BM (30°-60°)	2843.5	8.8	B3/5000		
BH (60°-80°)	2098.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	197.0	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: P476544

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9
2.5°	4349.9	4353.5	4353.5	4339.2	4342.8	4353.5	4314.3	4228.8	4228.8	4214.6	4189.6
5°	4617.1	4599.3	4574.4	4577.9	4563.7	4563.7	4520.9	4439.0	4367.7	4339.2	4264.4
7.5°	4652.8	4670.6	4667.0	4709.8	4731.1	4731.1	4752.5	4684.8	4577.9	4510.2	4435.4
10°	4724.0	4677.7	4674.1	4773.9	4805.9	4880.8	4966.3	4930.6	4841.6	4745.4	4645.6
12.5°	4766.8	4795.3	4795.3	4845.1	4919.9	5030.4	5180.0	5247.7	5108.8	5009.0	4855.8
15°	4830.9	4791.7	4905.7	4948.4	5090.9	5169.3	5383.1	5557.7	5465.0	5343.9	5101.6
17.5°	4859.4	4834.4	4898.6	4976.9	5219.2	5336.8	5596.8	5839.1	5760.7	5682.3	5433.0
20°	5005.4	5001.9	5030.4	5094.5	5269.1	5500.6	5824.8	6159.7	6188.2	6045.7	5707.3
22.5°	5361.7	5315.4	5315.4	5290.5	5365.3	5604.0	6042.2	6505.3	6633.6	6466.1	6017.2
25°	5689.5	5753.6	5714.4	5600.4	5571.9	5696.6	6198.9	6872.2	7043.3	6886.5	6437.6
27.5°	6109.9	6131.2	6198.9	6045.7	5849.8	5889.0	6369.9	7078.9	7431.6	7221.4	6676.3
30°	6715.5	6676.3	6662.1	6491.1	6234.5	6181.1	6565.9	7381.7	7941.0	7645.3	6957.8
32.5°	7125.2	7221.4	7217.8	6982.7	6672.7	6555.2	6808.1	7666.7	8486.1	8211.8	7477.9
35°	7937.5	8037.2	7958.8	7613.3	7249.9	7014.8	7157.3	8037.2	9109.6	8895.8	7919.7
37.5°	8974.2	9209.3	9041.9	8404.2	7891.2	7634.6	7641.8	8439.8	9747.3	9572.7	8393.5
40°	9690.3	10007.3	9775.8	9177.2	8632.2	8389.9	8293.7	8917.2	10509.7	10324.4	9134.5
42.5°	10577.3	10841.0	10719.9	10128.5	9490.8	9284.1	9091.7	9715.2	11674.6	11589.1	10085.7
45°	11546.4	11671.1	11631.9	11257.8	10548.8	10477.6	10053.6	10766.2	13046.2	13081.9	11275.6
47.5°	12447.7	12515.4	12590.2	12319.5	11877.7	11938.3	11161.6	11891.9	14378.6	14613.8	12600.9
50°	12679.3	12910.8	13085.4	13267.1	13363.3	13773.0	12383.6	13274.2	15910.6	16366.6	14075.8
52.5°	12444.1	12426.3	12957.2	13527.2	14489.1	15347.7	14047.3	14991.4	17264.3	18165.7	15426.0
55°	11375.4	11339.7	12194.8	12950.0	14827.5	16224.1	16423.6	17278.6	18899.6	20071.7	17253.7
57.5°	9505.0	9284.1	10217.5	11457.3	14093.6	16320.3	18810.5	20673.7	21414.8	22750.7	20043.2
60°	6387.7	6295.1	7189.3	8667.8	11443.1	14955.8	20239.1	24923.9	24959.5	26463.0	24371.7
62.5°	3933.1	3950.9	4524.5	5632.5	8012.3	11856.3	19622.8	28319.1	28326.2	29833.2	27934.3
65°	2572.2	2582.9	3046.0	3658.8	5005.4	8040.8	16227.6	28586.3	30666.8	32066.9	29566.0
66°	2290.7	2294.3	2693.3	3192.1	4146.9	6580.1	14332.3	27891.6	31194.1	32362.6	29544.6
67.5°	1930.9	1977.2	2297.9	2682.6	3234.8	4727.6	11371.8	25882.3	30923.3	31949.4	28874.8
70°	1510.5	1535.5	1788.4	2180.3	2426.1	2736.1	6758.2	21097.7	28304.8	29968.6	26438.0
72.5°	1211.3	1232.7	1425.0	1770.6	1970.1	1802.7	3680.2	15308.5	22358.9	24133.0	20794.9
75°	1022.5	1026.0	1118.7	1393.0	1621.0	1353.8	1959.4	9825.6	14346.6	15173.1	12739.8
77.5°	826.5	840.8	904.9	1061.7	1303.9	1065.2	1168.5	5504.2	7203.6	7264.1	5889.0
80°	673.3	680.5	719.6	773.1	994.0	787.3	790.9	2686.2	3088.8	3017.5	2394.1
82.5°	530.8	538.0	584.3	573.6	730.3	562.9	491.6	1293.2	1421.5	1393.0	1100.8
85°	299.3	299.3	459.6	459.6	463.1	356.3	299.3	609.2	751.7	701.8	516.6
87.5°	96.2	99.8	138.9	146.1	231.6	160.3	146.1	228.0	356.3	313.5	185.3
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: P476544  
 CATALOG NUMBER: IFLD-L-SA7B-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9	4089.9
2.5°	4175.4	4118.4	4093.4	4011.5	3990.1	3936.7	3911.7	3879.7	3869.0	3822.7	3865.4
5°	4207.4	4189.6	4089.9	3986.5	3908.2	3872.5	3819.1	3747.9	3740.7	3676.6	3669.5
7.5°	4342.8	4282.2	4107.7	3997.2	3840.5	3751.4	3633.8	3598.2	3551.9	3530.5	3576.8
10°	4553.0	4399.8	4139.7	3861.9	3669.5	3562.6	3477.1	3452.2	3455.7	3441.5	3420.1
12.5°	4702.6	4556.6	4086.3	3747.9	3498.5	3395.2	3388.0	3413.0	3452.2	3434.3	3459.3
15°	4916.4	4642.1	4047.1	3559.0	3359.5	3331.0	3327.5	3402.3	3398.7	3398.7	3395.2
17.5°	5115.9	4727.6	3904.6	3395.2	3213.5	3234.8	3259.8	3256.2	3291.8	3306.1	3331.0
20°	5368.8	4827.3	3705.1	3231.3	3103.0	3095.9	3092.3	3095.9	3131.5	3152.9	3135.1
22.5°	5589.7	4848.7	3537.7	3074.5	2971.2	2942.7	2896.4	2942.7	2924.9	2932.0	2953.4
25°	5782.1	4852.3	3299.0	2957.0	2839.4	2775.3	2739.6	2736.1	2704.0	2700.4	2700.4
27.5°	5942.4	4731.1	3088.8	2793.1	2682.6	2622.1	2618.5	2579.3	2497.4	2443.9	2451.1
30°	6067.1	4638.5	2942.7	2650.6	2543.7	2533.0	2500.9	2411.9	2305.0	2237.3	2237.3
32.5°	6288.0	4453.2	2743.2	2504.5	2451.1	2436.8	2362.0	2283.6	2183.9	2119.7	2109.1
35°	6451.9	4282.2	2611.4	2379.8	2354.9	2326.4	2262.2	2176.7	2148.2	2134.0	2144.7
37.5°	6637.1	4089.9	2451.1	2272.9	2297.9	2244.4	2169.6	2130.4	2230.2	2205.2	2215.9
40°	6932.8	3954.5	2294.3	2208.8	2233.7	2173.2	2077.0	2062.7	2187.4	2098.4	2077.0
42.5°	7474.3	3950.9	2198.1	2112.6	2130.4	2084.1	1998.6	1991.5	2041.4	1934.5	1902.4
45°	8147.7	4075.6	2126.9	2041.4	2027.1	2020.0	1991.5	1959.4	1916.7	1777.7	1742.1
47.5°	8952.8	4278.7	2112.6	1934.5	1952.3	2012.9	1977.2	1895.3	1784.9	1695.8	1678.0
50°	9929.0	4699.1	2077.0	1856.1	1888.2	1984.4	1955.9	1841.9	1742.1	1685.1	1674.4
52.5°	11008.4	5229.9	2030.7	1735.0	1806.2	1959.4	1973.7	1866.8	1720.7	1670.9	1663.7
55°	12280.3	6013.7	1977.2	1603.2	1710.0	1934.5	1973.7	1795.5	1692.2	1692.2	1685.1
57.5°	14791.9	7424.5	1866.8	1482.0	1624.5	1888.2	1916.7	1799.1	1695.8	1695.8	1681.5
60°	18475.6	9626.1	1656.6	1389.4	1542.6	1824.0	1873.9	1745.7	1656.6	1678.0	1674.4
62.5°	21357.8	10295.9	1478.5	1300.3	1460.7	1706.5	1816.9	1688.7	1610.3	1688.7	1695.8
65°	21974.1	9619.0	1296.8	1204.2	1346.7	1592.5	1735.0	1606.7	1542.6	1695.8	1702.9
66°	21753.2	9091.7	1232.7	1175.7	1296.8	1535.5	1685.1	1578.2	1507.0	1688.7	1692.2
67.5°	20769.9	8300.8	1161.4	1115.1	1229.1	1453.5	1628.1	1539.0	1450.0	1667.3	1635.2
70°	18632.4	7039.7	1040.3	1008.2	1132.9	1318.2	1496.3	1439.3	1360.9	1535.5	1478.5
72.5°	14350.1	5625.3	912.0	915.6	1022.5	1179.2	1364.5	1325.3	1257.6	1346.7	1311.0
75°	8739.0	3594.7	794.5	801.6	890.6	1047.4	1239.8	1211.3	1129.3	1179.2	1161.4
77.5°	3872.5	1781.3	669.8	684.0	755.3	922.7	1079.5	1033.2	947.7	958.3	951.2
80°	1503.4	844.3	545.1	562.9	609.2	737.5	894.2	851.5	776.6	762.4	755.3
82.5°	723.2	470.3	420.4	427.5	445.3	587.8	769.5	716.1	616.3	552.2	552.2
85°	363.4	292.1	295.7	270.8	295.7	399.0	520.1	434.6	359.8	320.6	327.8
87.5°	146.1	146.1	146.1	124.7	131.8	188.8	242.3	163.9	149.6	89.1	89.1
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)