

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: P476587

Luminaire Tested: **IFLD-L-SA8A-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476587  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

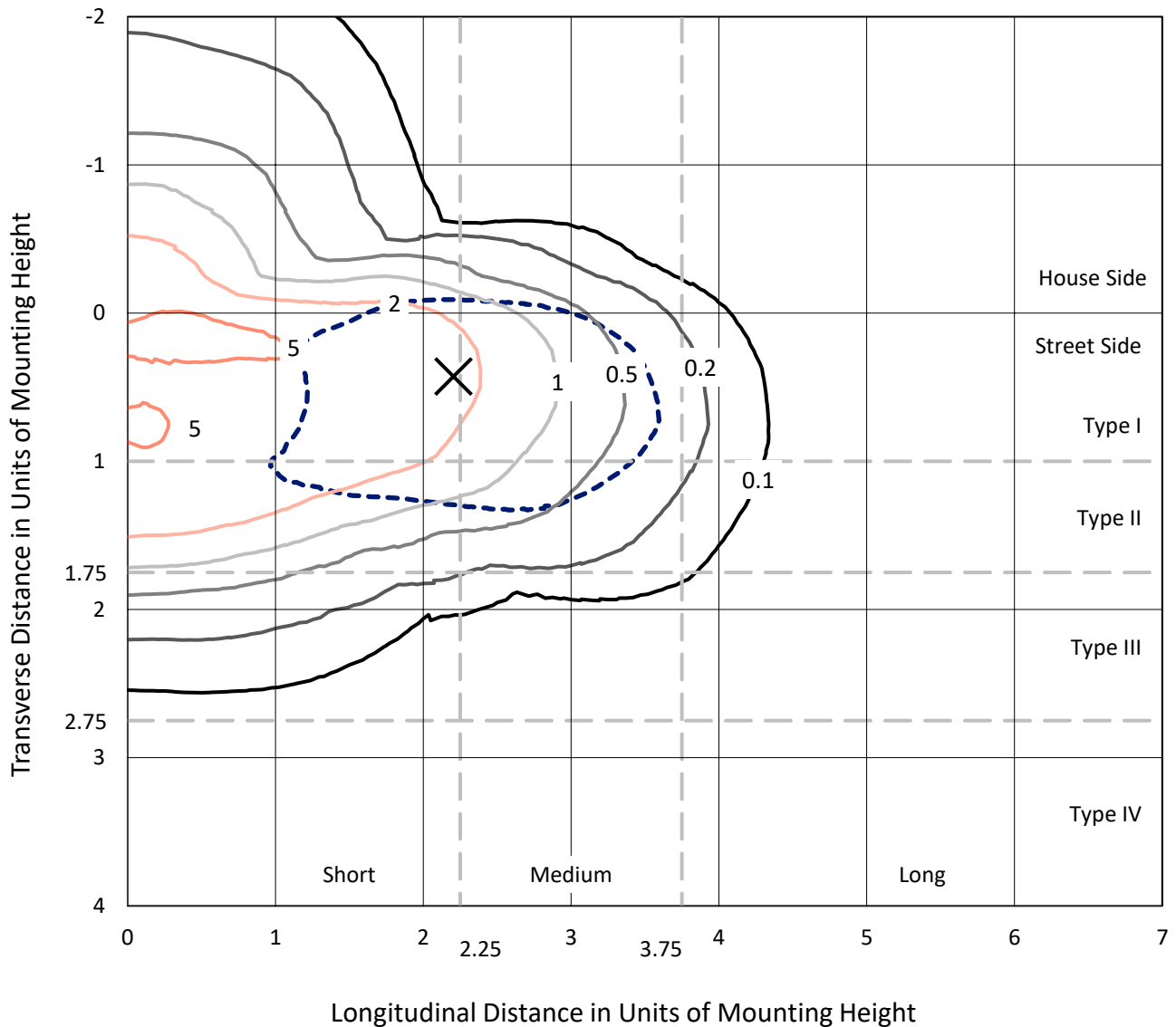
Lumens per Lamp: N/A  
Luminaire Lumens: 33746.1 lumens  
Efficiency: N/A  
Efficacy: 136.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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: P476587  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

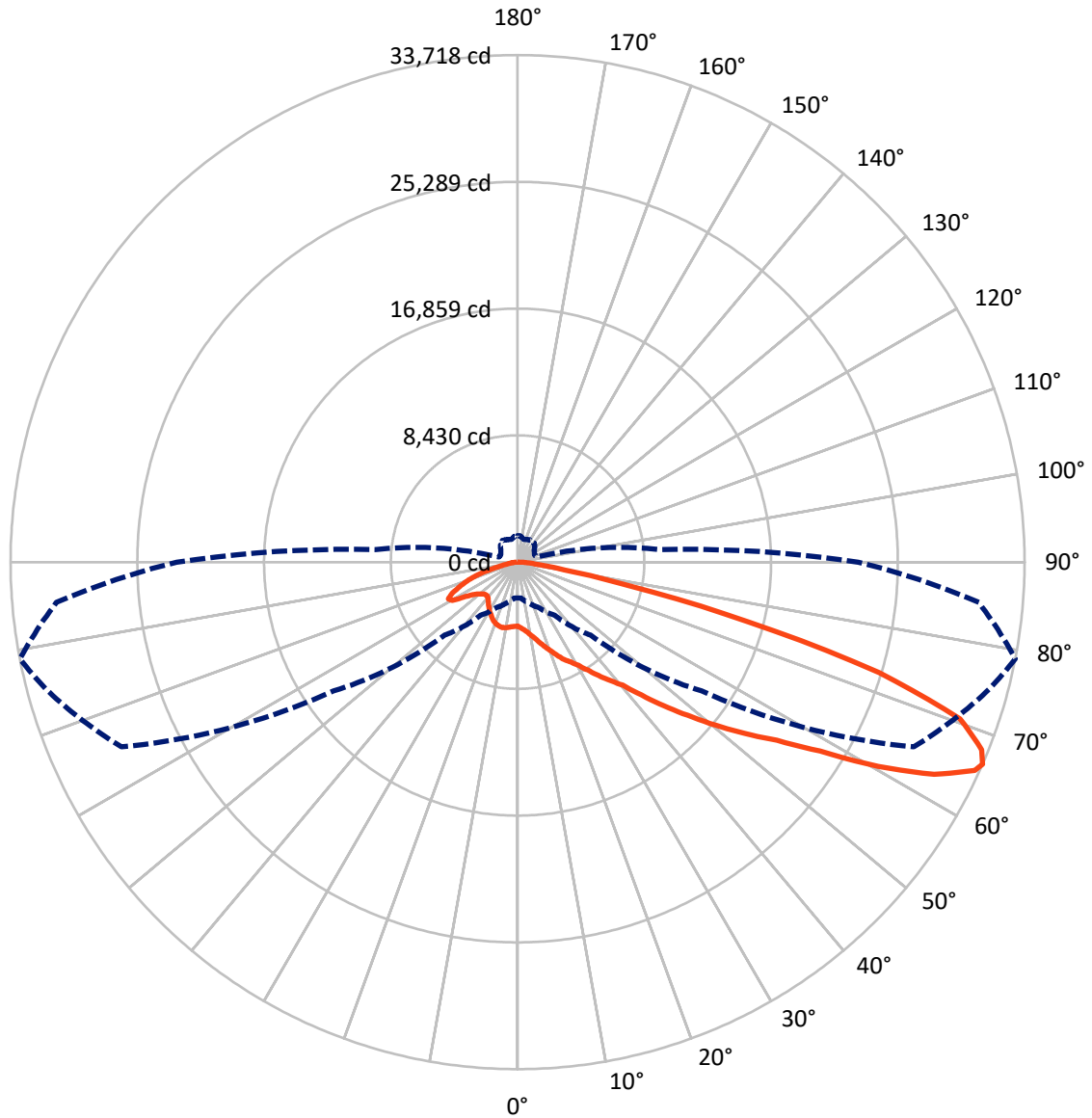
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

REPORT NUMBER: P476587  
CATALOG NUMBER: IFLD-L-SA8A-735-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P476587  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T2

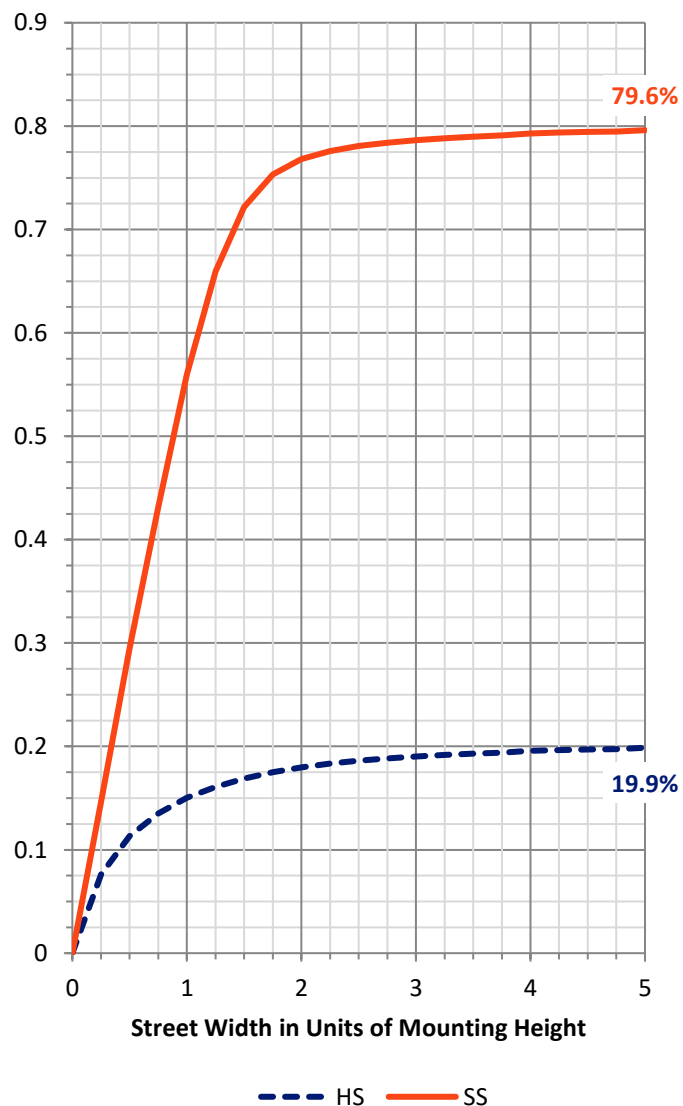
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6814.6	0.0	6814.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	26931.6	0.0	26931.6
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	33746.1	0.0	33746.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.0	1.2
10°-20°	1293.9	3.8
20°-30°	2221.0	6.6
30°-40°	3430.9	10.2
40°-50°	5495.5	16.3
50°-60°	8205.1	24.3
60°-70°	8430.8	25.0
70°-80°	3737.2	11.1
80°-90°	512.8	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°	33746.1	100.0
0°-180°	33746.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476587

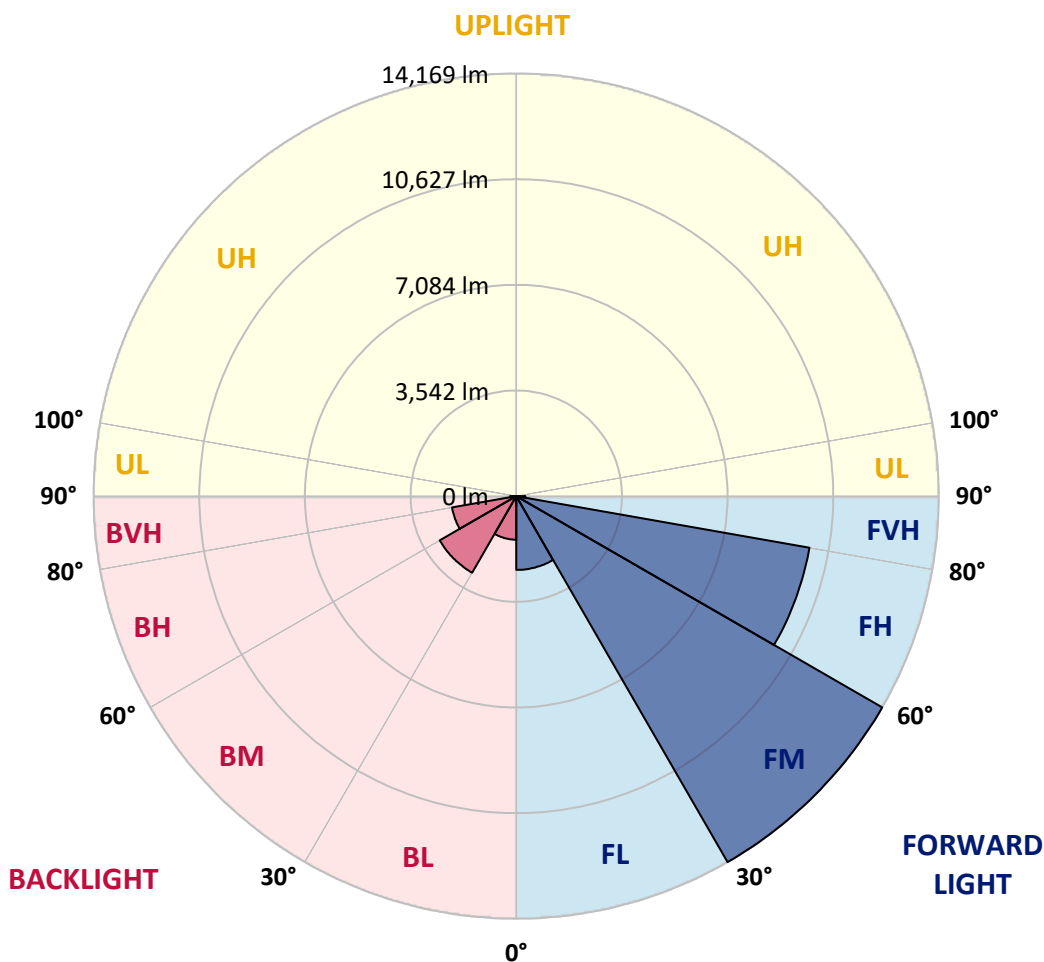
CATALOG NUMBER: IFLD-L-SA8A-735-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.8	7.3			
FM (30°-60°)	14168.9	42.0			
FH (60°-80°)	9981.4	29.6			G4/12000
FVH (80°-90°)	307.5	0.9			G3/500
BL (0°-30°)	1460.0	4.3	B3/2500		
BM (30°-60°)	2962.7	8.8	B3/5000		
BH (60°-80°)	2186.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	205.2	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: P476587  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2
2.5°	4532.2	4535.9	4535.9	4521.0	4524.7	4535.9	4495.0	4406.0	4406.0	4391.1	4365.1
5°	4810.6	4792.0	4766.0	4769.7	4754.9	4754.9	4710.3	4625.0	4550.7	4521.0	4443.1
7.5°	4847.7	4866.2	4862.5	4907.1	4929.3	4929.3	4951.6	4881.1	4769.7	4699.2	4621.3
10°	4921.9	4873.7	4869.9	4973.9	5007.3	5085.2	5174.3	5137.2	5044.4	4944.2	4840.3
12.5°	4966.5	4996.1	4996.1	5048.1	5126.1	5241.1	5397.0	5467.6	5322.8	5218.9	5059.3
15°	5033.3	4992.4	5111.2	5155.8	5304.2	5385.9	5608.6	5790.5	5694.0	5567.8	5315.4
17.5°	5063.0	5037.0	5103.8	5185.5	5437.9	5560.4	5831.3	6083.7	6002.1	5920.4	5660.6
20°	5215.1	5211.4	5241.1	5307.9	5489.8	5731.1	6068.9	6417.8	6447.5	6299.0	5946.4
22.5°	5586.3	5538.1	5538.1	5512.1	5590.0	5838.7	6295.3	6777.8	6911.5	6737.0	6269.3
25°	5927.8	5994.6	5953.8	5835.0	5805.3	5935.2	6458.6	7160.2	7338.3	7175.0	6707.3
27.5°	6365.8	6388.1	6458.6	6299.0	6094.9	6135.7	6636.8	7375.4	7742.9	7523.9	6956.0
30°	6996.8	6956.0	6941.2	6763.0	6495.7	6440.1	6840.9	7691.0	8273.7	7965.6	7249.2
32.5°	7423.7	7523.9	7520.2	7275.2	6952.3	6829.8	7093.3	7987.9	8841.6	8555.8	7791.2
35°	8270.0	8373.9	8292.3	7932.2	7553.6	7308.6	7457.1	8373.9	9491.2	9268.5	8251.4
37.5°	9350.1	9595.1	9420.7	8756.3	8221.7	7954.5	7961.9	8793.4	10155.6	9973.7	8745.1
40°	10096.2	10426.6	10185.3	9561.7	8993.8	8741.4	8641.2	9290.8	10950.0	10756.9	9517.2
42.5°	11020.5	11295.2	11169.0	10552.8	9888.4	9673.1	9472.6	10122.2	12163.7	12074.6	10508.2
45°	12030.1	12160.0	12119.2	11729.4	10990.8	10916.5	10474.8	11217.2	13592.8	13629.9	11748.0
47.5°	12969.2	13039.7	13117.7	12835.6	12375.3	12438.4	11629.2	12390.2	14981.0	15226.0	13128.8
50°	13210.5	13451.7	13633.6	13822.9	13923.1	14350.0	12902.4	13830.3	16577.1	17052.2	14665.5
52.5°	12965.5	12946.9	13500.0	14093.9	15096.1	15990.6	14635.8	15619.5	17987.6	18926.7	16072.3
55°	11851.9	11814.8	12705.7	13492.6	15448.7	16903.8	17111.6	18002.5	19691.4	20912.6	17976.5
57.5°	9903.2	9673.1	10645.6	11937.3	14684.1	17004.0	19598.6	21539.9	22311.9	23703.9	20882.9
60°	6655.3	6558.8	7490.5	9030.9	11922.5	15582.3	21087.0	25968.1	26005.2	27571.6	25392.8
62.5°	4097.9	4116.4	4714.0	5868.4	8347.9	12353.0	20444.9	29505.5	29512.9	31083.0	29104.6
65°	2680.0	2691.1	3173.6	3812.1	5215.1	8377.6	16907.5	29783.9	31951.6	33410.4	30804.6
66°	2386.7	2390.4	2806.2	3325.8	4320.6	6855.8	14932.8	29060.1	32501.0	33718.4	30782.4
67.5°	2011.8	2060.1	2394.1	2795.0	3370.4	4925.6	11848.2	26966.6	32218.9	33287.9	30084.5
70°	1573.8	1599.8	1863.3	2271.7	2527.8	2850.7	7041.4	21981.6	29490.6	31224.1	27545.6
72.5°	1262.0	1284.3	1484.7	1844.8	2052.7	1878.2	3834.3	15949.8	23295.6	25144.1	21666.1
75°	1065.3	1069.0	1165.5	1451.3	1688.9	1410.5	2041.5	10237.3	14947.6	15808.8	13273.6
77.5°	861.1	876.0	942.8	1106.1	1358.5	1109.8	1217.5	5734.8	7505.4	7568.5	6135.7
80°	701.5	709.0	749.8	805.5	1035.6	820.3	824.0	2798.7	3218.2	3143.9	2494.4
82.5°	553.1	560.5	608.7	597.6	760.9	586.5	512.2	1347.4	1481.0	1451.3	1147.0
85°	311.8	311.8	478.8	478.8	482.5	371.2	311.8	634.7	783.2	731.2	538.2
87.5°	100.2	103.9	144.8	152.2	241.3	167.0	152.2	237.6	371.2	326.6	193.0
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: P476587  
 CATALOG NUMBER: IFLD-L-SA8A-735-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2	4261.2
2.5°	4350.3	4290.9	4264.9	4179.5	4157.3	4101.6	4075.6	4042.2	4031.1	3982.8	4027.4
5°	4383.7	4365.1	4261.2	4153.6	4071.9	4034.8	3979.1	3904.9	3897.4	3830.6	3823.2
7.5°	4524.7	4461.6	4279.8	4164.7	4001.4	3908.6	3786.1	3749.0	3700.7	3678.4	3726.7
10°	4743.7	4584.1	4313.2	4023.6	3823.2	3711.8	3622.8	3596.8	3600.5	3585.6	3563.4
12.5°	4899.6	4747.5	4257.5	3904.9	3645.0	3537.4	3530.0	3556.0	3596.8	3578.2	3604.2
15°	5122.4	4836.5	4216.7	3708.1	3500.3	3470.6	3466.9	3544.8	3541.1	3541.1	3537.4
17.5°	5330.2	4925.6	4068.2	3537.4	3348.1	3370.4	3396.3	3392.6	3429.7	3444.6	3470.6
20°	5593.8	5029.6	3860.3	3366.6	3233.0	3225.6	3221.9	3225.6	3262.7	3285.0	3266.4
22.5°	5823.9	5051.8	3685.9	3203.3	3095.7	3066.0	3017.7	3066.0	3047.4	3054.9	3077.1
25°	6024.3	5055.5	3437.2	3080.8	2958.3	2891.5	2854.4	2850.7	2817.3	2813.6	2813.6
27.5°	6191.4	4929.3	3218.2	2910.1	2795.0	2731.9	2728.2	2687.4	2602.0	2546.3	2553.8
30°	6321.3	4832.8	3066.0	2761.6	2650.3	2639.1	2605.7	2512.9	2401.6	2331.0	2331.0
32.5°	6551.4	4639.8	2858.1	2609.4	2553.8	2538.9	2461.0	2379.3	2275.4	2208.6	2197.4
35°	6722.2	4461.6	2720.8	2479.5	2453.5	2423.8	2357.0	2267.9	2238.2	2223.4	2234.5
37.5°	6915.2	4261.2	2553.8	2368.2	2394.1	2338.5	2260.5	2219.7	2323.6	2297.6	2308.8
40°	7223.3	4120.2	2390.4	2301.3	2327.3	2264.2	2164.0	2149.2	2279.1	2186.3	2164.0
42.5°	7787.5	4116.4	2290.2	2201.1	2219.7	2171.4	2082.3	2074.9	2126.9	2015.5	1982.1
45°	8489.0	4246.4	2216.0	2126.9	2112.0	2104.6	2074.9	2041.5	1997.0	1852.2	1815.1
47.5°	9327.9	4457.9	2201.1	2015.5	2034.1	2097.2	2060.1	1974.7	1859.6	1766.8	1748.3
50°	10344.9	4895.9	2164.0	1933.9	1967.3	2067.5	2037.8	1919.0	1815.1	1755.7	1744.6
52.5°	11469.6	5449.0	2115.8	1807.7	1881.9	2041.5	2056.4	1945.0	1792.8	1740.9	1733.4
55°	12794.7	6265.6	2060.1	1670.3	1781.7	2015.5	2056.4	1870.8	1763.1	1763.1	1755.7
57.5°	15411.6	7735.5	1945.0	1544.1	1692.6	1967.3	1997.0	1874.5	1766.8	1766.8	1752.0
60°	19249.6	10029.4	1726.0	1447.6	1607.2	1900.5	1952.4	1818.8	1726.0	1748.3	1744.6
62.5°	22252.5	10727.2	1540.4	1354.8	1521.9	1778.0	1893.0	1759.4	1677.8	1759.4	1766.8
65°	22894.7	10022.0	1351.1	1254.6	1403.1	1659.2	1807.7	1674.0	1607.2	1766.8	1774.3
66°	22664.6	9472.6	1284.3	1224.9	1351.1	1599.8	1755.7	1644.3	1570.1	1759.4	1763.1
67.5°	21640.1	8648.6	1210.1	1161.8	1280.6	1514.4	1696.3	1603.5	1510.7	1737.1	1703.7
70°	19413.0	7334.6	1083.9	1050.5	1180.4	1373.4	1559.0	1499.6	1417.9	1599.8	1540.4
72.5°	14951.3	5861.0	950.2	953.9	1065.3	1228.6	1421.6	1380.8	1310.3	1403.1	1366.0
75°	9105.2	3745.3	827.7	835.2	928.0	1091.3	1291.7	1262.0	1176.7	1228.6	1210.1
77.5°	4034.8	1855.9	697.8	712.7	786.9	961.4	1124.7	1076.4	987.4	998.5	991.1
80°	1566.4	879.7	567.9	586.5	634.7	768.4	931.7	887.1	809.2	794.3	786.9
82.5°	753.5	490.0	438.0	445.4	464.0	612.5	801.8	746.1	642.1	575.3	575.3
85°	378.6	304.4	308.1	282.1	308.1	415.7	541.9	452.8	374.9	334.1	341.5
87.5°	152.2	152.2	152.2	129.9	137.3	196.7	252.4	170.7	155.9	92.8	92.8
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)