

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: P476556

Luminaire Tested: **IFLD-S-SA2E-735-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476556  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-735-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

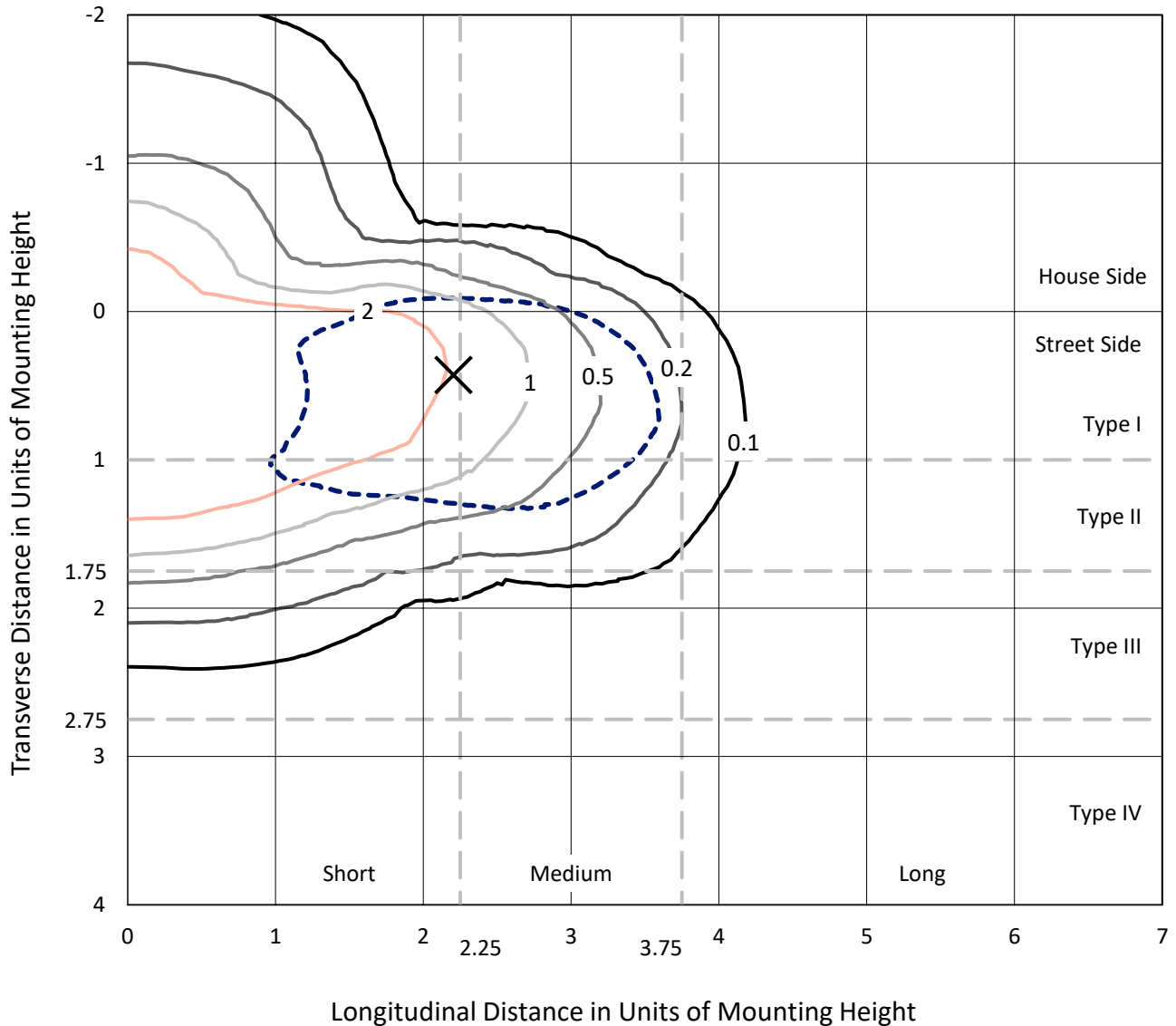
Lumens per Lamp: N/A  
Luminaire Lumens: 17829.9 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2  
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: P476556  
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

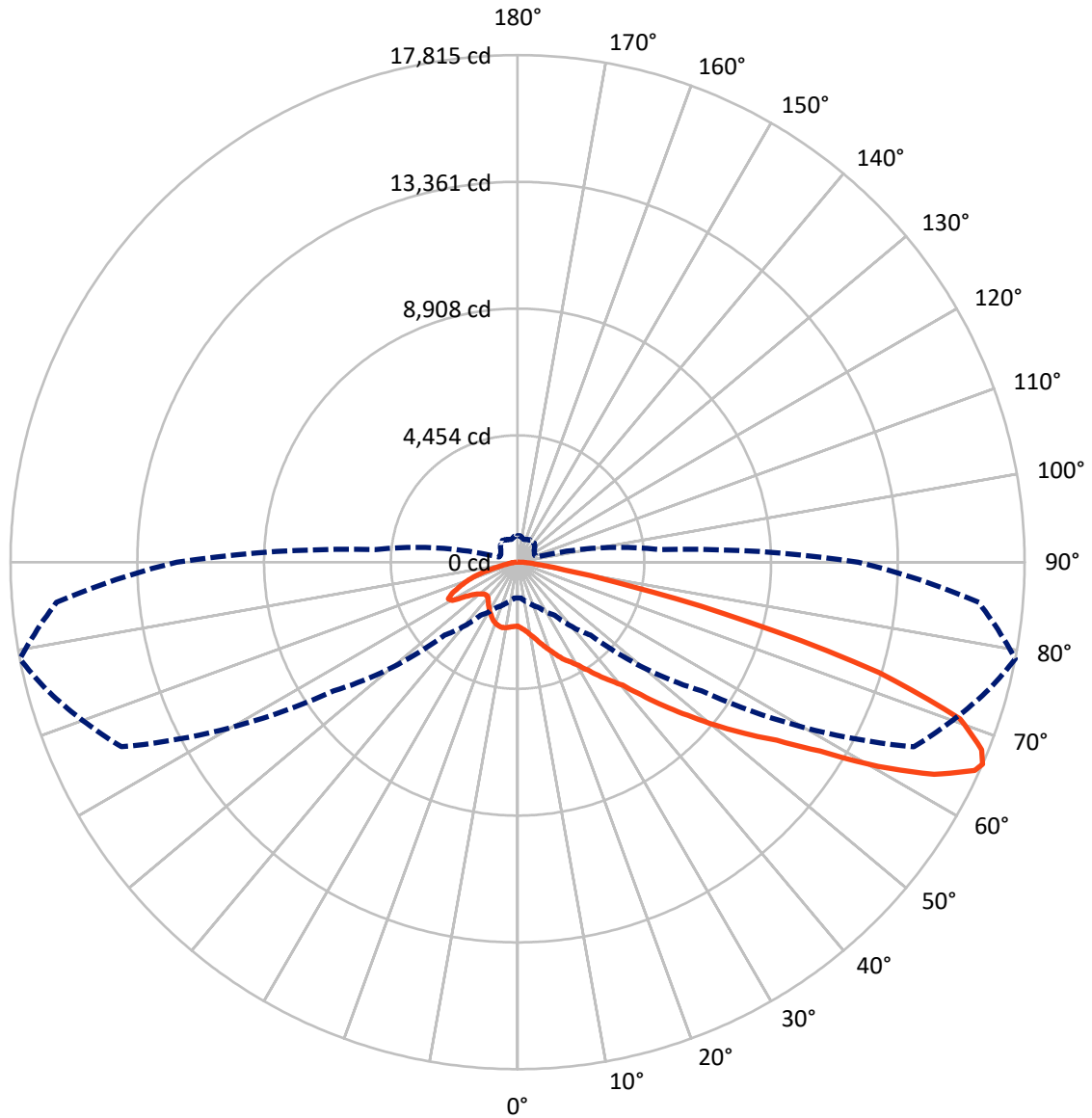
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P476556  
CATALOG NUMBER: IFLD-S-SA2E-735-U-T2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P476556  
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2

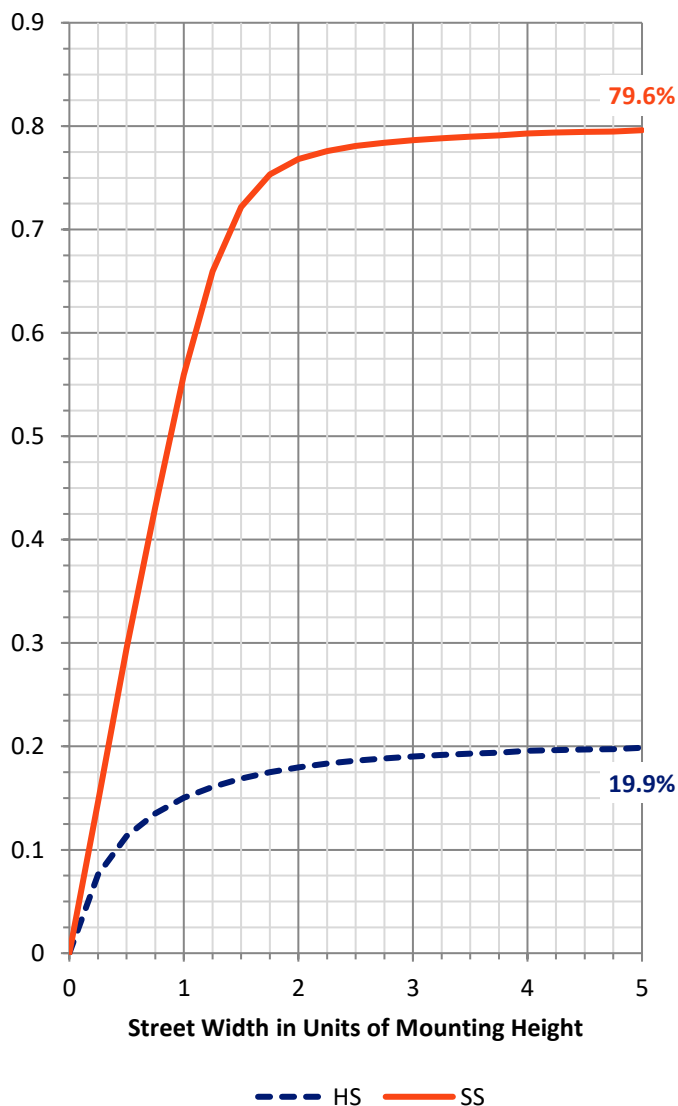
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3600.5	0.0	3600.5
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	14229.4	0.0	14229.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	17829.9	0.0	17829.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.4	1.2
10°-20°	683.6	3.8
20°-30°	1173.4	6.6
30°-40°	1812.7	10.2
40°-50°	2903.6	16.3
50°-60°	4335.2	24.3
60°-70°	4454.4	25.0
70°-80°	1974.6	11.1
80°-90°	270.9	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°	17829.9	100.0
0°-180°	17829.9	100.0

**Coefficient of Utilization**



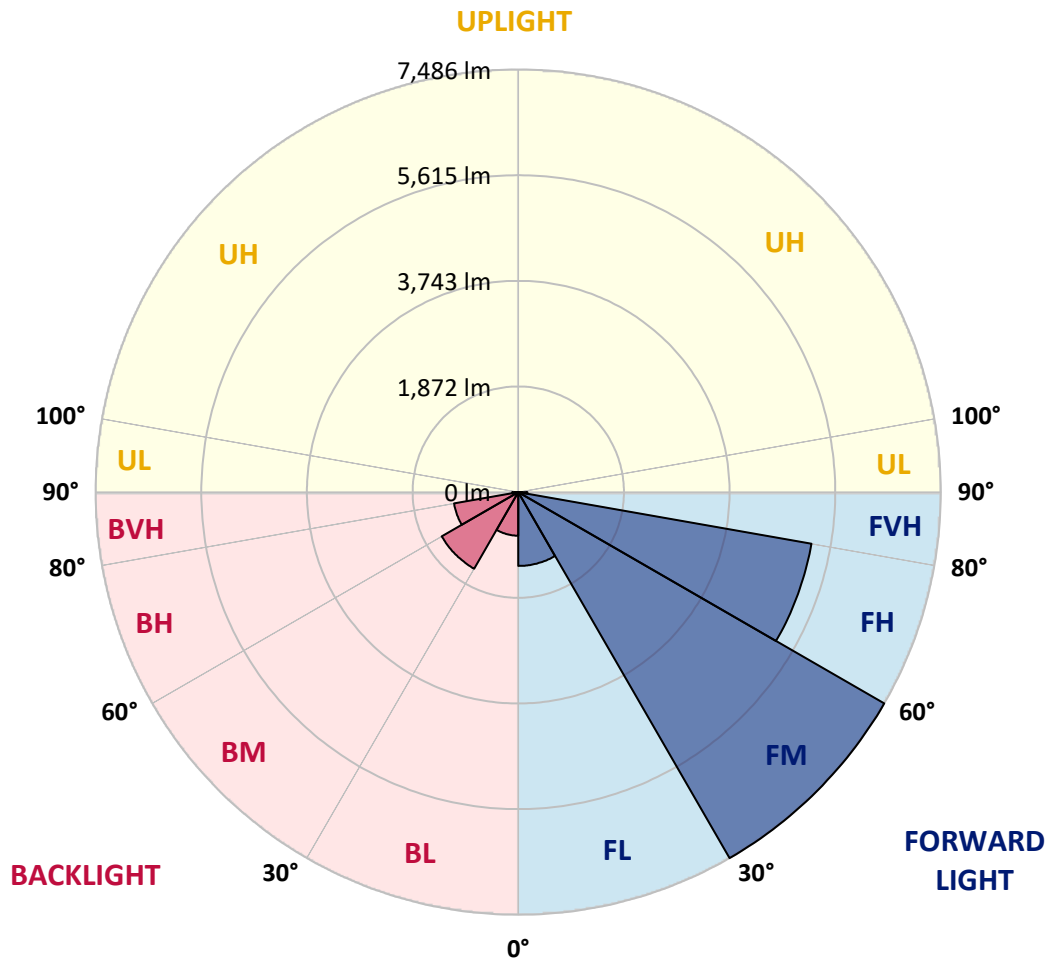
REPORT NUMBER: P476556  
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.0	7.3			
FM (30°-60°)	7486.2	42.0			
FH (60°-80°)	5273.7	29.6			G3/7500
FVH (80°-90°)	162.5	0.9			G2/225
BL (0°-30°)	771.4	4.3	B2/1000		
BM (30°-60°)	1565.3	8.8	B2/2500		
BH (60°-80°)	1155.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	108.4	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-G3**

Type II Short





REPORT NUMBER: P476556

CATALOG NUMBER: IFLD-S-SA2E-735-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4
2.5°	2394.6	2396.5	2396.5	2388.7	2390.7	2396.5	2375.0	2327.9	2327.9	2320.1	2306.3
5°	2541.7	2531.9	2518.1	2520.1	2512.3	2512.3	2488.7	2443.6	2404.4	2388.7	2347.5
7.5°	2561.3	2571.1	2569.1	2592.7	2604.4	2604.4	2616.2	2578.9	2520.1	2482.8	2441.6
10°	2600.5	2575.0	2573.0	2628.0	2645.6	2686.8	2733.9	2714.3	2665.2	2612.3	2557.4
12.5°	2624.0	2639.7	2639.7	2667.2	2708.4	2769.2	2851.5	2888.8	2812.3	2757.4	2673.1
15°	2659.3	2637.8	2700.5	2724.1	2802.5	2845.6	2963.3	3059.4	3008.4	2941.7	2808.4
17.5°	2675.0	2661.3	2696.6	2739.7	2873.1	2937.8	3081.0	3214.3	3171.2	3128.1	2990.8
20°	2755.4	2753.5	2769.2	2804.5	2900.6	3028.0	3206.5	3390.9	3406.5	3328.1	3141.8
22.5°	2951.6	2926.1	2926.1	2912.3	2953.5	3084.9	3326.1	3581.1	3651.7	3559.5	3312.4
25°	3132.0	3167.3	3145.7	3083.0	3067.3	3135.9	3412.4	3783.1	3877.2	3790.9	3543.8
27.5°	3363.4	3375.2	3412.4	3328.1	3220.2	3241.8	3506.6	3896.8	4091.0	3975.3	3675.2
30°	3696.8	3675.2	3667.4	3573.2	3432.0	3402.6	3614.4	4063.5	4371.4	4208.7	3830.2
32.5°	3922.3	3975.3	3973.3	3843.9	3673.3	3608.5	3747.8	4220.4	4671.5	4520.5	4116.5
35°	4369.5	4424.4	4381.2	4191.0	3991.0	3861.5	3940.0	4424.4	5014.7	4897.0	4359.7
37.5°	4940.2	5069.6	4977.4	4626.4	4344.0	4202.8	4206.7	4646.0	5365.7	5269.6	4620.5
40°	5334.4	5508.9	5381.4	5052.0	4751.9	4618.5	4565.6	4908.8	5785.4	5683.5	5028.4
42.5°	5822.7	5967.8	5901.1	5575.6	5224.5	5110.8	5004.9	5348.1	6426.7	6379.7	5552.1
45°	6356.1	6424.8	6403.2	6197.3	5807.0	5767.8	5534.4	5926.6	7181.8	7201.4	6207.1
47.5°	6852.3	6889.6	6930.8	6781.7	6538.5	6571.9	6144.3	6546.4	7915.3	8044.7	6936.6
50°	6979.8	7107.3	7203.4	7303.4	7356.3	7581.9	6817.0	7307.3	8758.6	9009.6	7748.6
52.5°	6850.3	6840.5	7132.8	7446.5	7976.1	8448.7	7732.9	8252.6	9503.8	10000.0	8491.8
55°	6262.0	6242.4	6713.1	7128.8	8162.4	8931.1	9041.0	9511.6	10404.0	11049.2	9497.9
57.5°	5232.4	5110.8	5624.6	6307.1	7758.4	8984.1	10354.9	11380.6	11788.6	12524.0	11033.5
60°	3516.4	3465.4	3957.6	4771.5	6299.3	8233.0	11141.4	13720.3	13739.9	14567.5	13416.3
62.5°	2165.1	2174.9	2490.7	3100.6	4410.7	6526.8	10802.1	15589.3	15593.2	16422.8	15377.5
65°	1416.0	1421.8	1676.8	2014.1	2755.4	4426.3	8933.1	15736.4	16881.7	17652.4	16275.7
66°	1261.0	1263.0	1482.6	1757.2	2282.8	3622.3	7889.8	15354.0	17172.0	17815.2	16263.9
67.5°	1063.0	1088.4	1265.0	1476.8	1780.7	2602.5	6260.0	14247.9	17022.9	17587.7	15895.2
70°	831.5	845.3	984.5	1200.2	1335.6	1506.2	3720.3	11614.0	15581.5	16497.3	14553.8
72.5°	666.8	678.6	784.5	974.7	1084.5	992.3	2025.9	8427.1	12308.3	13284.9	11447.3
75°	562.9	564.8	615.8	766.8	892.3	745.2	1078.6	5408.9	7897.6	8352.6	7013.1
77.5°	455.0	462.8	498.1	584.4	717.8	586.4	643.3	3030.0	3965.5	3998.8	3241.8
80°	370.7	374.6	396.2	425.6	547.2	433.4	435.4	1478.7	1700.3	1661.1	1317.9
82.5°	292.2	296.1	321.6	315.7	402.0	309.9	270.6	711.9	782.5	766.8	606.0
85°	164.7	164.7	253.0	253.0	255.0	196.1	164.7	335.4	413.8	386.3	284.4
87.5°	53.0	54.9	76.5	80.4	127.5	88.3	80.4	125.5	196.1	172.6	102.0
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: P476556  
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4
2.5°	2298.5	2267.1	2253.4	2208.3	2196.5	2167.1	2153.4	2135.7	2129.8	2104.3	2127.9
5°	2316.1	2306.3	2251.4	2194.5	2151.4	2131.8	2102.4	2063.1	2059.2	2023.9	2020.0
7.5°	2390.7	2357.3	2261.2	2200.4	2114.1	2065.1	2000.4	1980.8	1955.3	1943.5	1969.0
10°	2506.4	2422.0	2278.9	2125.9	2020.0	1961.2	1914.1	1900.4	1902.3	1894.5	1882.7
12.5°	2588.7	2508.3	2249.5	2063.1	1925.9	1869.0	1865.1	1878.8	1900.4	1890.6	1904.3
15°	2706.4	2555.4	2227.9	1959.2	1849.4	1833.7	1831.7	1872.9	1871.0	1871.0	1869.0
17.5°	2816.2	2602.5	2149.4	1869.0	1769.0	1780.7	1794.5	1792.5	1812.1	1820.0	1833.7
20°	2955.5	2657.4	2039.6	1778.8	1708.2	1704.3	1702.3	1704.3	1723.9	1735.6	1725.8
22.5°	3077.1	2669.1	1947.4	1692.5	1635.6	1619.9	1594.4	1619.9	1610.1	1614.0	1625.8
25°	3183.0	2671.1	1816.0	1627.8	1563.0	1527.7	1508.1	1506.2	1488.5	1486.6	1486.6
27.5°	3271.2	2604.4	1700.3	1537.6	1476.8	1443.4	1441.5	1419.9	1374.8	1345.4	1349.3
30°	3339.9	2553.4	1619.9	1459.1	1400.3	1394.4	1376.7	1327.7	1268.9	1231.6	1231.6
32.5°	3461.5	2451.5	1510.1	1378.7	1349.3	1341.4	1300.3	1257.1	1202.2	1166.9	1161.0
35°	3551.7	2357.3	1437.5	1310.1	1296.3	1280.6	1245.3	1198.3	1182.6	1174.7	1180.6
37.5°	3653.6	2251.4	1349.3	1251.2	1265.0	1235.5	1194.3	1172.8	1227.7	1214.0	1219.8
40°	3816.4	2176.9	1263.0	1215.9	1229.7	1196.3	1143.4	1135.5	1204.2	1155.1	1143.4
42.5°	4114.5	2174.9	1210.0	1163.0	1172.8	1147.3	1100.2	1096.3	1123.7	1064.9	1047.3
45°	4485.2	2243.6	1170.8	1123.7	1115.9	1112.0	1096.3	1078.6	1055.1	978.6	959.0
47.5°	4928.4	2355.4	1163.0	1064.9	1074.7	1108.1	1088.4	1043.3	982.5	933.5	923.7
50°	5465.8	2586.8	1143.4	1021.8	1039.4	1092.4	1076.7	1013.9	959.0	927.6	921.7
52.5°	6060.0	2879.0	1117.9	955.1	994.3	1078.6	1086.5	1027.7	947.2	919.8	915.9
55°	6760.1	3310.4	1088.4	882.5	941.4	1064.9	1086.5	988.4	931.6	931.6	927.6
57.5°	8142.8	4087.1	1027.7	815.8	894.3	1039.4	1055.1	990.4	933.5	933.5	925.7
60°	10170.6	5299.1	911.9	764.9	849.2	1004.1	1031.6	961.0	911.9	923.7	921.7
62.5°	11757.2	5667.8	813.9	715.8	804.1	939.4	1000.2	929.6	886.4	929.6	933.5
65°	12096.5	5295.1	713.9	662.9	741.3	876.6	955.1	884.5	849.2	933.5	937.4
66°	11974.9	5004.9	678.6	647.2	713.9	845.3	927.6	868.8	829.6	929.6	931.6
67.5°	11433.6	4569.5	639.3	613.8	676.6	800.2	896.3	847.2	798.2	917.8	900.2
70°	10256.9	3875.3	572.7	555.0	623.7	725.6	823.7	792.3	749.2	845.3	813.9
72.5°	7899.6	3096.7	502.1	504.0	562.9	649.1	751.1	729.6	692.3	741.3	721.7
75°	4810.7	1978.8	437.3	441.3	490.3	576.6	682.5	666.8	621.7	649.1	639.3
77.5°	2131.8	980.6	368.7	376.5	415.8	507.9	594.2	568.7	521.7	527.6	523.6
80°	827.6	464.8	300.1	309.9	335.4	406.0	492.3	468.7	427.5	419.7	415.8
82.5°	398.1	258.9	231.4	235.3	245.1	323.6	423.6	394.2	339.3	304.0	304.0
85°	200.0	160.8	162.8	149.0	162.8	219.7	286.3	239.3	198.1	176.5	180.4
87.5°	80.4	80.4	80.4	68.6	72.6	103.9	133.4	90.2	82.4	49.0	49.0
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)